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MEETING OF INTERNATIONAL AUTHORITIES UNDER THE PCT

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DRAFT PCT INTERNATIONAL SEARCH AND PRELIMINARY EXAMINATION GUIDELINES

Document prepared by the International Bureau

BACKGROUND

- 1. This document contains a first draft of a set of combined guidelines for International Search and Preliminary Examination under the PCT that was submitted by the United States Patent and Trade Mark Office after preliminary consultation between that Office and the European Patent Office and the Japan Patent Office (together referred to as the "Trilateral Offices").
- 2. At its 31st (18th extraordinary) session, held from September 23 to October 1, 2002, the PCT Assembly adopted a number of amendments to the Regulations. Many of those amendments significantly affect the work of the International Searching and Preliminary Examining Authorities, especially by the adoption, with effect from January 1, 2004, of an enhanced international search and preliminary examination system (see document PCT/A/31/10, paragraphs 45, 47 and 48 and Annex V).
- 3. It is necessary to revise the PCT International Search Guidelines and the PCT International Preliminary Examination Guidelines to reflect the revised system. In view of the fact that the International Searching Authority will be required to establish a written

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opinion for each international application, equivalent to the first written opinion of the International Preliminary Examining Authority, it is appropriate to combine the two sets of guidelines into a single document to ensure consistency between the two stages as well as between Authorities.

DRAFT GUIDELINES

- 4. A first draft text of the proposed combined PCT International Search and Preliminary Examination Guidelines is set out in the Annex. The draft is not yet complete and a number of issues remain to be agreed between the Trilateral Offices, which have cooperated in preparing the draft, as well as by the Meeting of International Authorities. General issues and matters still under consideration are denoted by square brackets containing either comments or paragraph texts still under review.
- 5. Where a paragraph is closely based on text from the existing guidelines, this is referred to by a reference in square brackets to the relevant paragraph number, prefixed by either S for the Search Guidelines or E for the Preliminary Examination Guidelines. Some references, commencing AU, are also made to paragraphs from draft guidelines supplied to the International Bureau by IP Australia. Many cross-references remain to be inserted or updated; in general these are marked [XR]. The proposed contents of Annex B are available separately from the WIPO website ¹.
 - 6. The Meeting of International Authorities is invited to consider the draft PCT International Search and Preliminary Examination Guidelines contained in the Annex.

[Annex follows]

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¹ http://www.wipo.int/pct/en/meetings/mia/doc/pct mia 7 2ab.doc

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PART I INTRODUCTION AND OVERVIEW

CHAPTER 1 INTRODUCTION

Purpose and Status of These Guidelines

- 1.01 These Guidelines give instructions as to the practice to be followed by Authorities during the international search and examination procedures. The Guidelines have been revised to incorporate the changes resulting from the PCT reform passed by the Assembly in September 2002. The main change being that the establishment of an examiner's written opinion would be incorporated into the international search procedure.
- 1.02 [S-I-1]The Guidelines are addressed primarily to the examiners in the various International Searching and Preliminary Examining Authorities but it is hoped that they will also be of assistance to applicants and patent practitioners. They also apply, where appropriate, to international type searches. (See paragraph 2.20 [XR]) Moreover, the Guidelines may be useful to the patent Offices of the designated and elected Offices in the national phase in the searching and examination of the international application and in better understanding the international search and examination reports. Although the Guidelines deal with international applications, they may be used *mutatis mutandis* by national Offices in dealing with national applications if the national law so permits; also they may be used in revising national laws with the purpose of unification of current practices in patent Offices of various countries. They, however, do not generally cover the actions of the receiving Office, even though this might in some cases be the same Office as the International Search Authority (ISA) and/or the International Preliminary Examination Authority (IPEA).

Article 16(3)(b), 32

- 1.03 [S-I-2, start] These Guidelines provide instructions regarding international search and examination and assist in the application of the provisions of the PCT, PCT Regulations and PCT Administrative Instructions relating to international search and examination. They are intended to cover typical occurrences. They should therefore be considered only as general directives; examiners will have to go beyond the instructions in exceptional cases. Nevertheless, applicants can expect the International Searching and Examining Authorities to act, as a general rule, in accordance with the Guidelines until such time as they are revised.
- 1.04 [S-I-2, end] It should be noted also that the Guidelines do not have the binding authority of a legal text. These Guidelines have been designed to assist International Searching and Examining Authorities in establishing international search and examination reports, in accordance with PCT Articles 17 and 18, written opinions in accordance with PCT Article 34, rule 43bis PCT and international preliminary examination reports in accordance with PCT Article 35. For the ultimate authority on questions concerning international search and examination, it is necessary to refer to the PCT Articles themselves, interpreted, where necessary, by reference to the Minutes of the Washington Diplomatic Conference and interpretations given by the PCT Assembly. Any failure of an International Searching or Examining Authority to follow these Guidelines would not of itself constitute a basis for review of the action of the Authority except where such review is provided for under the applicable national law and practice.

Arrangement and terminology of these Guidelines

1.05 These guidelines initially set out the framework which is to be followed at the international search stage and the international preliminary examination stage and then go on to set out a number of steps and concepts in greater detail. [The guidelines are divided into five parts and an annex. Part 1 provides a brief overview of the procedures at the International Search Stage and International Preliminary Examination Stage. Part 2 provides details of the International Search Stage. Part 3 provides details of the International Preliminary Examination Stage. Part 4 provides details on the content of written opinions on the International Preliminary Examination Report, and Part 5 discusses Common Concepts and Details.] Some of the chapters in the various parts are relevant to only one stage or the other. However, with a few exceptions which are highlighted in the text, where examiners in the International Searching Authority and the International Preliminary Examining Authority consider any particular issue, this should be done to the same standards and most chapters are relevant to the work of both stages.

1.06 The term "examiner," unless qualified, is used in the Guidelines to refer to the examiner working in the International Preliminary Examining Authority or the examiner working in the International Searching Authority. "Search" and "examination", unless qualified, mean international search and international preliminary examination according to the Treaty and Regulations.

1.07 [S-I-4]References in the Guidelines to "Articles" are to those of the Treaty, to "Rules" to those of the Regulations under the PCT, to "Sections" to those of the Administrative Instructions under the PCT, and to "Chapters" and "paragraphs" to those of these Guidelines.

Overview of International Application Process

1.08 The procedure through which an international patent application under the Patent Cooperation Treaty proceeds from the filing of the application to the granting of a patent (or the refusal thereof) comprises two main stages, commonly referred to as the "international phase" and the "national phase" (or "regional phase" when an international application comes before a regional body rather than a national one). As indicated in paragraph 1.01 a major change to processing international applications is that, generally, the International Searching Authority (ISA) rather than the International Preliminary Examining Authority (IPEA) establishes the written opinion. Thus combining the international search and international preliminary procedures to a much greater extent than before. The following paragraphs 1.09, 1.10 and the flow chart of the international phase (PCT enhanced search and examination process) that has been provided at the end of this chapter provide a brief overview of the international phase with a complete explanation provided in Parts 2 and 3 of the Guidelines.

- The International Phase

Articles 22, 23

1.09 The international phase begins when the international application is filed and, provided that the international application is not withdrawn, includes various formalities checks, an international search, preparation of a written opinion [by the International Searching Authority,] publication of the application and, optionally, an international preliminary examination. During this phase, no national or regional Office may process or examine the application except at the specific request of the applicant.

- 1.10 The international phase in turn includes a number of groups of actions which are distinct in nature, though they may in practice overlap slightly in timing:
- (a) Filing of the international application (IA) with an appropriate receiving Office (RO); certain procedural checks are carried out and copies of the application are sent to the International Bureau(IB) (the record copy) and the International Searching Authority(ISA) (search copy);
- (b) An international search by the International Searching Authority (ISA); as well as a search for earlier disclosures relevant to the novelty and inventive step of the claimed invention, a number of other procedural checks and requirements are carried out, an international search report (ISR) is established and a written opinion is established on novelty, inventive step and industrial application at 16 months from the priority date, as detailed later in this document See Chapter 2 and Part2 [XR];
- (c) International Publication at 18 months from the priority date of the international application (IA), the international search report (ISR), and Article 19 amendments if any by the International Bureau;
- (d) Optionally, at the request of the applicant filing a Demand (Chapter II), an international preliminary examination conducted by the International Preliminary Examining Authority (IPEA) in which; the examiner considers further the issues of novelty, inventive step and industrial application, taking into account any comments or amendments under Article 19 or 34 from the applicant, as detailed later in this document; and establishes an international preliminary examination report, which is entitled international preliminary report on patentability (Chapter I of PCT). (See Chapter 12)
- (e) Issuance of an international preliminary report on patentability (IPRP)(Chapter I of the PCT) by the International Bureau (IB) on behalf of the International Searching Authority if applicant does not file a Demand requesting examination of the international application in response to the written opinion as established by the International Searching Authority(ISA); the IPRP shall have the same content as the written opinion as established by the International Search Authority.
- (f) Distribution by the International Bureau (IB) of documents to the designated Offices (DO) or elected Offices (EO), including copies of the application, any amendments which have been filed and an international preliminary report on patentability, comprising either the contents of the written opinion by the International Searching Authority or, where established, the international preliminary examination report.

- The National (or Regional) Phase

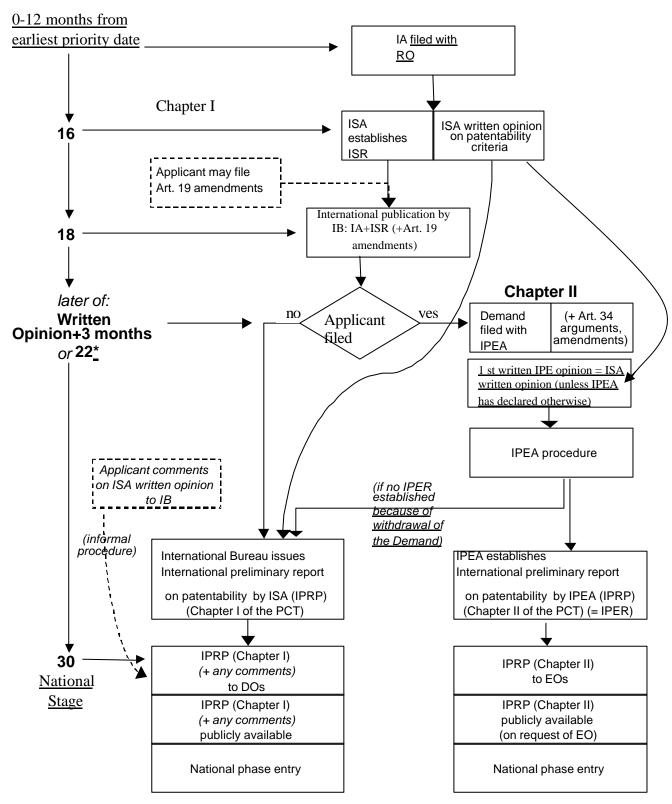
1.11 After 30 months from the priority date of the application (20 months in certain States due to transitional provisions; States also have the option of specifying a later date applicable for applications before their Office), the application may begin its national (or regional) phase in each designated Office (if Chapter I applies) or elected Office (if Chapter II) applies. This is the procedure which actually leads to the grant, or refusal, of a patent according to the relevant national law or regional arrangement. While the national and regional Offices may not make further requirements beyond those of the Treaty and Regulations in respect of matters of form and contents, they are not bound by the results of any international search or examination which has been performed when the application is examined during the national or regional phase.

The International Authorities

Articles 16, 32; Rules 35, 59

- 1.12 The International Searching Authorities and International Preliminary Examining Authorities are national Offices or intergovernmental organizations entrusted with a number of tasks under the Treaty, especially the establishment of international search and preliminary examination reports. One or more Authorities may be competent to search or examine a particular international application. This depends on agreements between the International Authorities and the International Bureau, together with a decision which has been notified to the International Bureau by each receiving Office concerning which Authorities are competent to act in respect of international applications filed with that Office. Where more than one Authority might be competent to perform the search or examination of any particular application, the applicant chooses the desired Authority in the request or demand.
- 1.13 The International Preliminary Examining Authority for any particular application will usually be the same body as the International Searching Authority, but this is not necessarily the case. A different Authority may be specifically chosen by the applicant or else, occasionally, an Authority may be competent to search a particular international application but not to examine it. Consequently it is particularly important that both the international search report and the written opinion by the International Searching Authority are produced to consistent standards, so that they may be used effectively by any other Authority, as well as by applicants and designated Offices.

Enhanced International Search and Preliminary Examination System



^{*} must in practice file demand by 19 months for Article 22 transitional reservation countries

CHAPTER 2 OVERVIEW OF THE INTERNATIONAL SEARCH STAGE

Objectives

2.01 This Chapter provides a brief, introductory overview of the International Search Stage. A complete discussion of the procedure at the International Search Stage is provided in Parts 2 and 4 of the Guidelines.

Article 15(2); Rule 33.1(a)

2.02 [S-II-2]The objective of the international search is to discover the prior art which is relevant for the purpose of determining whether, and if so to what extent, the claimed invention to which the international application relates is or is not novel and does or does not involve an inventive step. In some cases the International Searching Authority is not required to establish a search for some or all of the claimed subject matter, either because more than one invention is claimed or else because the application covers excluded subject matter (see Chapter 20 [XR]).

Rule 43bis

- 2.03 At the same time as establishing the international search report, the search examiner must establish a written opinion as to whether the claimed invention appears to be novel, involve an inventive step, be industrially applicable and meet with the other requirements of the Treaty which are checked by the International Searching Authority.
- 2.04 It is essential that the search and the written opinion are carried out according to the same criteria which are used during the international preliminary examination. The search may also report on some material which may not strictly be relevant to novelty and inventive step, as detailed below in paragraph 2.10 [XR].

Preliminary Matters

- Receipt of Search Copy from Receiving Office
- 2.05 Provided that the international application has been filed in a language accepted by the International Searching Authority, the receiving Office should send the search copy of the application to the International Searching Authority as soon as it has allocated an identification number, performed the relevant formalities checks under articles 11 and 14 and the international search fee has been paid.

Rule 12

- 2.06 [S-II-10]Where the language in which the international application is filed is not accepted by the International Searching Authority that is to carry out the international search, the applicant must furnish to the receiving Office a translation of the international application into a language which is all of the following:
 - (a) a language accepted by the International Searching Authority, and
 - (b) a language of publication, and
- (c) a language accepted by the receiving Office under Rule 12.1(a), unless the international application is filed in a language of publication,

provided that no such translation is required of the request or any sequence listing part of the description. Where the applicant is required to furnish such a translation, the international search will be carried out on the basis of that translation.

Rule 23.1(b)

- 2.07 [S-II-12]Where a translation of the international application is furnished to the receiving Office under Rule 12.3, a copy of that translation and of the request are together considered to be the search copy; that search copy is transmitted by the receiving Office to the International Searching Authority promptly upon receipt from the applicant except where no search fee has been paid. In the latter case, the search copy is transmitted promptly after payment of the search fee.
- Acknowledgement and Allocation by the International Searching Authority

Rule 25.1

- 2.08 The International Searching Authority will notify the applicant that the search copy has been received using form PCT/ISA/202.
- 2.09 [AU-2.1]The international search should then be assigned as quickly as possible to a search examiner who is capable of completing the search within the time limit The preliminary classification must also be determined as quickly as possible.

The International Search Process

- 2.10 The role of the ISA is as follows, the details being considered in subsequent chapters referred to below:
- (a) to determine classification of the case, particularly to determine whether examiners specializing in other fields need to be consulted to ensure a proper search is carried out; this classification may need to be reconsidered in the light of fuller consideration, but a definitive classification must be made by the time that the international application is published. (see Chapter 7 [XR]);

Article 17(3); Rule 40

(b) to determine whether the application meets the requirement of unity of invention and, if so, whether the applicant should be invited to pay further search fees relating to the extra inventions (see Chapter 21 [XR]);

Rule 39

(c) to determine whether some or all of the subject matter relates to subject matter which the Authority is not required to search (see Chapter 20 [XR]);

Rules 4.11, 41

(d) to determine whether using the results of any earlier search relating to the application to establish the international search report, and to authorize any appropriate refund, (See Chapter 4 [XR]);

Rule 13ter

(e) to determine whether to invite the applicant to provide a listing if the international application contains disclosure of one or more nucleotide and/or amino acid sequences but does not include a sequence listing in compliance with the paper form or computer-readable sequence listing standards provided for in the Administrative Instructions (see Chapter 8 [XR]);

Articles 15, 17(2)

(f) to perform an international search to discover relevant prior art (see Chapters 4 & 5 [XR]), except in cases where the subject matter is such that the Authority is not obliged to do so or else the description, claims or drawings fail to comply with the prescribed requirements to such an extent that no meaningful search could be carried out, (see Chapter 20 [XR]);

Rules 37, 38

(g) to consider whether the abstract and title are appropriate and, in certain circumstances, to draft alternatives, (see Chapter 8 [XR]);

Rule 43

(h) to establish a search report, indicating the results of the search and certain other information (see Chapter 6 [XR]), or else make a declaration that a search was either not required or would not be meaningful (see Chapter 20 [XR]);

Rule 43bis

- (i) to establish a written opinion as to whether the international application appears to be novel, involve an inventive step, be industrially applicable and to comply with other requirements of the Treaty and Regulations insofar as they are checked by the International Searching Authority (see Chapter 12 [XR]).
- 2.11 Some of the above matters, especially unity of invention, may be the subject of ongoing consideration, depending on the outcome of the search. Nevertheless it is important to consider matters at an early stage in view of the limited time available in which to obtain corrections or additional fees from the applicant.

Time Limit for Establishing International Search Report

Rules 42.1. 43bis.1

- 2.12 The International Searching Authority must establish the international search report and written opinion (or a declaration made that the ISA is not required to perform a search or cannot perform a meaningful search) within:
 - (i) three months from the date of receipt of the search copy, or
 - (ii) nine months from the priority date of the application,

whichever time limit expires later.

Transmittal of the International Search Report, Written Opinion, etc

Rule 44.1

2.13 On the same day that the international search report and written opinion are established, the International Searching Authority shall transmit one copy of each to the International Bureau and one copy to the applicant.

Options Open to the Applicant

Rule 40.2

2.14 In a few situations leading up to the establishment of the international search report, the International Searching Authority may specifically invite a response, such as where the

international application is considered to lack unity of invention (in which case further fees may be paid only under protest, together with a reasoned statement).

- 2.15 In general, the applicant has the following options available following the receipt of the international search report and written opinion of the International Searching Authority:
- (a) send (informal) comments on the written opinion of the ISA to the International Bureau, who will make these available to designated Offices and to the public at the same time that the written opinion becomes available.
- (b) submit to the International Bureau amendments of the claims under Article 19(1) together with a brief statement explaining the amendments.
- (c) request international preliminary examination, including arguments and/or amendments which will be taken into account by the International Preliminary Examining Authority.
 - (d) withdraw the application under Rule 90bis.
- (e) take no further action in the international phase, instead waiting until it is necessary, or desired, to pursue the application before designated Offices.

Further Processing of the International Search Report and Written Opinion

Confidential Treatment

Article 30

- 2.16 Prior to the international publication of the international application, all matter pertaining to the application is confidential and may not be accessed by any person or authority, except for the transmissions of information specifically required by the Treaty and Regulations for the purposes of processing the application, without the request or authorization of the applicant. If no demand is filed the written opinion of the ISA, the IPRP (Chapter I), any translation thereof and any comments on the written opinion of the ISA submitted by the applicant would remain confidential until 30 months from the priority date unless authorized by the applicant. If early processing is requested, the elected Office may allow access to any documents relating to the international preliminary examination to the extent provided by its national law.
- Publication of the Search Report

Article 21(3); Rules 48.2, 44bis

2.17 When the international application is published by the International Bureau, the international search report is published with the pamphlet (or, if delayed, is published as a separate pamphlet as soon as possible afterwards) and becomes available to the public. The written opinion, on the other hand, remains confidential for the time being. However, if no international preliminary examination report is to be established, the International Bureau will prepare a report, entitled "international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)" having the same contents as the written opinion. In certain circumstances, the International Bureau may translate the written opinion or report into English.

- Transmission and Making Available of the International Preliminary Report on Patentability
- Any such report and translation shall be communicated to designated Offices, who may then allow access to it, after 30 months from the priority date, or earlier if the applicant has requested early national processing of his application under Article 23(3). The report or written opinion, together with any translation may also be made available to the public by the International Bureau or the International Searching Authority after 30 months from the priority date.

Further Responsibilities of the International Searching Authority

Article 20(3), Rule 44.3

2.19 At any time within seven years of the international filing date of the international application, either the applicant or any designated Office is entitled to request copies of the documents cited in the search report to be sent to them by the International Searching Authority, subject to the payment of costs for preparing and mailing the copies (the applicant may be sent copies of the citations automatically with the international search report).

International and International-Type Searches

Article 16(1)

2.20 [S-III-4.1]The International Searching Authority is to carry out international searches and to draw up international search reports on international applications.

Article 15(5)

2.21 [S-III-4.2]Under PCT Article 15, an international searching authority may be entrusted with carrying out "international-type searches" for national applications. These searches are by definition similar to international searches, and the same considerations for establishing the search report will apply. However only the search itself is carried out; no written opinion is established for such applications.

CHAPTER 3 OVERVIEW OF THE INTERNATIONAL PRELIMINARY EXAMINATION STAGE

Introduction

3.01 This Chapter provides a brief introductory overview of the international Preliminary Examination Stage. A complete discussion of the procedure at the International Preliminary Examination Stage is provided in Parts 3 and 4 of the Guidelines.

Article 31

3.02 International Preliminary Examination is an optional part of the processing of an international application, performed if the applicant files a "demand". It has the primary objective of formulating a preliminary and non-binding opinion on the questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious) and to be industrially applicable. A secondary objective is to identify whether the claims appear to have any defects in the form or contents of the international application, the clarity of the claims, the description, and the drawings, or whether the claims are fully supported by the description. The results of the international preliminary examination are recorded in the international preliminary examination report, copies of which are then sent to the applicant and the International Bureau The International Bureau communicates the report to each elected Office (which in practice now means the Offices of all Contracting States).

Article 31(4), Rule 53.7

- 3.03 Filing of a demand constitutes the "election" of all States which were designated when the international application was filed, have not been withdrawn and which are bound by Chapter II of the Treaty (at the time of writing this included all Contracting States). Election indicates an intention to use the results of the international preliminary examination in the relevant States, but it should be remembered that the results of international preliminary examination are not binding on the States.
- 3.04 [E-I-1.6]Using international preliminary examination has the practical effect that national processing starts under much more advantageous conditions both for the applicant and the national Offices than would be the case without the PCT or if only Phase I is used. The applicant has, thanks to the international preliminary examination report, a strong indication of his chances of obtaining protection. Furthermore amendments made in the international phase in response to the written opinion may be reflected in the final international preliminary examination report and not need to be filed in each elected State. The elected Offices save a considerable amount of the effort of examination. The exact extent of the saving depends on the national law and practice.
- 3.05 [E-I-4.5] The attitude of the examiner is very important. He should always try to be constructive and helpful. He should bear in mind that, subject to the requirements of the PCT, the drafting of the description and claims of an international application is the responsibility of the applicant or his authorized representative.
- 3.06 [E-I-4.6] All international applications, regardless of their country of origin and the language in which they are written, should receive equal treatment.

Preliminary Matters

Filing of demand

Article 31(6); Rule 54bis

- 3.07 The applicant should file the demand with the competent International Preliminary Examining Authority before the expiration of the later of the following time limits:
- (a) three months from the date of transmittal to the applicant of the international search report and written opinion established under Rule 43bis.1, or of the declaration referred to in Article 17(2)(a); or
 - (b) 22 months from the priority date of the international application.

Rule 54bis

- 3.08 For transitional purposes, applicants should note that they must file the demand within 19 months of the priority date if they wish to gain the benefit of a 30-month international phase for the purposes of certain States which have made reservations with respect to modifications to Article 22(1), which came into force for most States April 1, 2002. The States which notified a reservation in respect of this modification were published in PCT Gazette 08/2002, February 21, 2002. Subsequent withdrawals are also published in the PCT Gazette.
- Checking of Demand and Notification of Receipt

Rules 59, 60, 61

3.09 The International Preliminary Examining Authority checks to ensure that it is competent to act as Authority for that application and that the demand is in the correct form and language, and was filed within the time limits specified in paragraph 3.07 [XR]. If the Authority is not competent, it transmits the demand to the International Bureau; if there are any defects, the applicant is invited to correct them; if the demand was filed after the expiration of the period set in paragraph 3.07, it is considered not to have been made, and the International Preliminary Examining Authority informs the applicant as such. If the demand is in order, the Authority indicates the date of receipt on the demand, transmits a copy to the International Bureau and notifies the applicant of receipt of the demand. These procedures are set out in detail in Chapter 9 [XR].

Rule 62

- 3.10 The International Bureau will then send the International Preliminary Examining Authority:
- (a) a copy of the written opinion established by the International Searching Authority, unless the national Office or intergovernmental organization that acted as International Searching Authority is also acting as International Preliminary Examining Authority; and
- (b) a copy of any amendments filed under Article 19 and any statement explaining the amendments and any impact that they might have on the description and drawings, unless the Authority has indicated that it has already received these.

Rule 61bis.1

3.11 If the written opinion of the International Searching Authority was not established in English or a language accepted by the International Preliminary Examining Authority, that Authority may request the International Bureau to translate the opinion into English. The

translation is established within two months and copies sent to both to the International Preliminary Examining Authority and to the applicant, who may make written comments on the correctness of the translation and send them to the International Bureau and the International Preliminary Examining Authority.

Article 31(7), Rule 61

- 3.12 [part of E-VI-2.2]Upon receipt of the demand from the International Preliminary Examining Authority, the International Bureau also notifies elected Offices of their election and publishes information on the demand in the Gazette, though this does not occur prior to publication of the international application.
- Commencement of International Preliminary Examination

Rule 69.1

- 3.13 [E-VI-3.2]The International Preliminary Examining Authority normally starts the international preliminary examination when it is in possession of:
 - (i) the demand;
- (ii) the amount due (in full) for the handling fee and the preliminary examination fee, including, where applicable, the late payment fee under Rule 58bis.2; and
- (iii) if the applicant is required to furnish a translation under Rule 55.2, that translation; and
- (iv) either the international search report and the written opinion established under Rule 43bis.1 or a notice of the declaration by the International Searching Authority under Article 17(2)(a) that no international search report will be established, provided that either these conditions are met after the expiration of the time limit within which the applicant was permitted to file the demand (see paragraph 3.07 [XR]) or the applicant has expressly requested an earlier start.
- 3.14 The exceptions to the above are as follows:
- (a) If the national office or intergovernmental organization that acts as International Searching Authority also acts as International Preliminary Examining Authority, the international preliminary examination may, if that national Office or intergovernmental organization so wishes, start at the same time as the international search, provided that the examination is not to be postponed according to the statement concerning amendments (see paragraphs (c) and (d) below).
- (b) Where the statement concerning amendments contains an indication that amendments under Article 19 are to be taken into account (Rule 53.9(a)(i)), the International Preliminary Examining Authority does not start the international preliminary examination before it has received a copy of the amendments concerned.
- (c) Where the statement concerning amendments contains an indication that the start of the international preliminary examination is to be postponed (Rule 53.9(b)), the International Preliminary Examining Authority does not start the international preliminary examination before whichever of the following occurs first:
 - (i) it has received a copy of any amendments made under Article 19;

- (ii) it has received a notice from the applicant that he does not wish to make amendments under Article 19; or
- (iii) the later of three months from the transmittal of the international search report and written opinion or of the declaration that no international search will be established; or the expiration of 22 months from the priority date.
- (d) Where the statement concerning amendments contains an indication that amendments under Article 34 are submitted with the demand (Rule 53.9(c)) but no such amendments are, in fact, submitted, the International Preliminary Examining Authority does not start the international preliminary examination before it has received the amendments or before the time limit fixed in the invitation referred to in Rule 60.1(g) has expired, whichever occurs first. These examination procedures before the International Preliminary Examining Authority are set out in detail in Chapter 10 [XR].
- 3.15 As soon as examination is to begin, the international application is sent to an examiner, who is responsible for establishing the international preliminary examination report. [AU-1.2]Where the ISA which carried out the search and the IPEA are part of the same national Office, the IPE should preferably be performed by the examiner who did the international search if practicable.

The International Preliminary Examination Process

Article 34(2)

- 3.16 The applicant generally has the right to receive at least one written opinion, essentially directed to the questions of whether the claimed invention is novel, involves an inventive step (is non-obvious) and is industrially applicable, prior to the report being established unless the Authority considers that all of the following criteria are fulfilled:
- (i) the invention satisfies the criteria set forth in Article 33(1), that is that it appears to be novel, involve an inventive step and have industrial application, as defined for the purposes of the Treaty;
- (ii) the international application complies with the requirements of the Treaty which are checked by the International Preliminary Examining Authority (See PCT Rule 70.12 and Chapter 12 [XR]); and
 - (iii) the Authority does not intend to make other permitted observations.

Rule 66.1(e)

3.17 However the International Preliminary Examining Authority is not obliged to draw up a written opinion on any claims for which an international search report has not been established.

Rule 66.1bis

3.18 Furthermore, it should be noted that the written opinion established by the International Searching Authority under Rule 43bis.1 (see paragraph 2.09 (i) [XR].) is usually considered to be the first written opinion of the International Preliminary Examining Authority for this purpose. The exception to this rule is that International Preliminary Examining Authorities may notify the International Bureau that written opinions established by a specified International Searching Authorities (other than by that International Preliminary Examining Authority acting in its role as an International Searching Authority) shall not be considered a

written opinion for this purpose. When this applies to a particular application, the Authority must notify the applicant accordingly in writing. The Authority should also in any case take the ISA's opinion into account when establishing its own written opinion.

- Basis of the Written Opinion or International Preliminary Examination Report

Rule 66

- 3.19 The applicant is entitled to file amendments under Article 34, which will be taken into account for subsequent written opinions and the international preliminary examination report, as will any amendments which were made under Article 19, unless they are reversed or superseded by those later made under Article 34. The details of permissible amendments are considered (see paragraph 10.26 et seq [XR]).
- 3.20 The written opinion established under Rule 43bis.1 will however include a notification including a time limit for response in the event that it is treated as the first written opinion of the International Preliminary Examining Authority. The consequence of this is that it will usually be necessary for amendments or arguments to be filed at the same time as the demand in order to ensure that they are taken into account during international preliminary examination.
- Further consideration

Rule 66.4

3.21 The International Preliminary Examining Authority may, at its discretion, issue further written opinions provided sufficient time is available.. The Authority may also communicate informally with the applicant in writing, by telephone or by personal interview.

Nature of the International Preliminary Examination Report

Rule 66.1

[Part of E-VI-2.1] The Report issued by the Authority does not contain any statement on the question whether or not the claimed invention is or seems to be patentable according to the law of any country; it merely states—by a "Yes" or "No"—in relation to each claim whether such claim seems to satisfy the said three criteria and each such statement is accompanied by citations and other explanations.

Time Limit for Establishing the International Preliminary Examination Report

Rule 69.2, 70.15(b)

- 3.22 The International Preliminary Examining Authority must establish an international preliminary examination report, titled "international preliminary report on patentability (Chapter II of the Patent Cooperation Treaty)," within whichever of the following periods expires last:
 - (i) 28 months from the priority date; or
- (ii) six months from the time provided under Rule 69.1 for the start of the international preliminary examination (see paragraphs 3.13 to 3.14 [XR]; or
- (iii) six months from the date of receipt by the International Preliminary Examining Authority of the translation furnished under Rule 55.2 [XR].

Transmittal of the International Preliminary Examination Report

Rule 71.1

3.23 The report is transmitted by the International Preliminary Examining Authority to both the applicant and the International Bureau.

Further Processing of the International Preliminary Examination Report

- Confidential Treatment

Article 38

- 3.24 Until the international preliminary examination report is transmitted to the elected Offices, neither the International Bureau nor the International Preliminary Examining Authority may allow access to the file of the international preliminary examination unless requested or authorized by the applicant.
- Transmission of the International Preliminary Examination Report to Elected Offices

Rule 73.2

- 3.25 The International Bureau transmits the international preliminary examination report to the elected Offices after 30 months from the priority date or earlier if the applicant makes a request for early national processing of the international application under Article 40(2).
- Translation of International Preliminary Examination Report

Rule 72

- 3.26 Where the international preliminary examination report is established in a language other than English, the International Bureau translates the report into English and transmits the translation to elected Offices who have requested such translations and also to the applicant. The applicant is entitled to make written observations on the correctness of the translation and sends copies of these observations to the International Bureau and to each of the interested elected Offices.
- Making Available of the International Preliminary Examination Report

Rule 94.1(c)

3.27 Once the report has been transmitted to the elected Offices by the International Bureau, 30 months from the priority date, the International Bureau will make the report available to the public on behalf of those elected Offices who have notified their wish for the International Bureau to supply this service, together with any translation and observations made by the applicant on the translation.

Further Responsibilities of the International Preliminary Examining Authority

Article 36(4), Rule 71.2

3.28 At any time within seven years of the international filing date of the international application, either the applicant or any elected Office is entitled to request copies of any documents cited in the international preliminary examination report which were not cited in the international search report to be sent to them by the International Preliminary Examining Authority, subject to the payment of costs for preparing and mailing the copies (the applicant may be sent copies of such citations automatically with the international preliminary examination report).

PART II THE INTERNATIONAL SEARCH

CHAPTER 4 THE INTERNATIONAL SEARCH

Objective of the International Search

Article 15(2), Rule 33.1(a)

- 4.01 [AU-S-8.1] The objective of the international search is to discover relevant prior art, which shall consist of everything which has been made available to the public anywhere in the world by means of written disclosure (including drawings and other illustrations) and which is capable of being of assistance in determining that the claimed invention is or is not new and that it does or does not involve an inventive step (that is, that it is or is not obvious), provided that the making available to the public occurred prior to the international filing date.
- 4.02 ISAs are encouraged to perform searching for prior art documents which might be of assistance in determining whether other requirements such as sufficiency, support and industrial applicability are fulfilled.
- 4.03 The search must recognize that certain offices have different definitions of prior art. Accordingly, the search should be expansive enough to find art which is relevant in all offices. Examiner should follow article 11(3) in conducting the search, even if article 64(4) reservation exists.
- [4.04 A further objective of the international search is to avoid, or at least minimize, additional searching at the national stage.]

Rule 33.1(b)

- 4.05 [AU-S-8.1bis] It follows that a non-written disclosure such as an oral disclosure, use, exhibition or other means of disclosure is not relevant prior art for the purposes of the international search unless it is substantiated by a written disclosure. The date on which the written disclosure was made available to the public may have been after the filing date of the international application under consideration so long as the non-written disclosure was made available to the public on a date prior to the international filing date.
- 4.06 [AU-S-8.1ter] It is to be noted that there is no restriction whatever with respect to the geographical place where, or the language or manner in which, the relevant information was made available to the public; also no age limit is stipulated with respect to documents containing this information.
- [4.07 Documents issued electronically are considered published provided they can be dated and are indexed and retrievable.]

The Examiner

Article 18; Rule 43

4.08 [S-II-9] The international search shall be carried out and the international search report prepared by an International Searching Authority. The international search itself will normally be performed by one examiner but is not limited to one. In appropriate cases, where the invention is of a nature requiring searching in widely dispersed specialized fields, an international search report containing the work of two or more examiners may be necessary.

Rule 43bis.1(a)

4.09 [S-II-8]The examiner is also required to provide a written opinion on novelty, inventive step and industrial application of the claimed invention at the same time the examiner establishes the international search report as well as to inform the designated Offices and the International Preliminary Examining Authorities of the documents necessary to make such assessments themselves. Consequently it is essential that the examiner is familiar with the requirements of examination.

Basis of the Search

Article 19; Rule 13ter, 91.1

4.10 There is no right to amend the application until after the international search has been established, consequently the international search must be carried out on the basis of the search copy of the application as transmitted to the International Searching Authority by the receiving Office, except that obvious errors may be corrected (see Chapter 22 [XR]). If, however, the application contains disclosure of one or more nucleotide and/or amino acid sequences but does not contain a sequence listing complying with the relevant standard, the International Searching Authority may invite the applicant to furnish such a listing for purposes of completion of the international search. Any sequence listing not contained in the international application as filed shall not, subject to Article 34 [XR], form part of the international application, but will be used as a search tool.

Rule 12.3

4.11 Where the language in which the international application is filed is not accepted by the International Searching Authority that is to carry out the international search, the applicant should have supplied to the receiving Office a translation of the international application into a suitable language, provided that no such translation is required of the request or any sequence listing part of the description. The receiving Office sends this translation as part of the search copy and the international search will be carried out on the basis of this translation.

Scope of the International Search

Article 18(2), 20(1)(a), 21(3) 33(6)

- 4.12 [S-III-2.1] The international search is essentially a thorough, high quality, search of the most relevant resources, and the report serves to provide information on the relevant prior art to the applicant, to the public if the international application is published and to the designated Offices and the International Preliminary Examining Authorities.
- 4.13 [S-II-7] In some instances there are no facilities for systematic searching by the designated Offices. The examiner should, therefore, assume that the designated Offices are dependent on the work of the International Searching Authorities for their knowledge of the state of the art on which their assessments of the patentability of the claimed invention will be based.
- 4.14 [S-III-2.1] Nevertheless, it must be realized that, even though completeness should be the ultimate goal of the international search, this goal may not be necessarily obtained, because of such factors as text search limitations and the inevitable imperfections of any classification system and its implementation, and may not be economically justified if the cost is to be kept within reasonable bounds. The examiner should therefore consider the most relevant search resources for the technology, including databases listed in Annex B, and

organize the search effort and utilize the search time in such a manner as to reduce to a minimum the possibility of failing to discover existing highly relevant prior art, such as complete anticipations for any claims. For less relevant prior art a lower retrieval ratio is acceptable.

Orientation and subject of the international search

- Analysis of the claims
- 4.15 [S-IV-1.1] When taking up an international application to be searched, the examiner should first consider the application in order to determine the subject of the claimed invention, taking account of the guidance given below and in Chapter 13 [XR]. For this purpose, the examiner should make a critical analysis of the claims in the light of the description and drawings.

Article 15(3) Rule 33.3(a)

- 4.16 [S-III-3.1] The international search should be directed to the invention defined by the claims, as interpreted with due regard to the description and drawings (if any) and with particular emphasis on the inventive concept towards which the claims are directed. See Chapter 13 [XR] for the relationship between the disclosure and the claims.
- 4.17 [S-III-3.2] Consequently, the international search should, on the one hand, not be restricted to the literal wording of the claims but, on the other hand, should not be broadened to include everything that might be derived by a person skilled in the art from a consideration of the description and drawings. A document which, when considered alone, indicates an abstract idea of a claimed invention but fails to disclose all the features set forth in a claim is not enough to negate the novelty or inventive step of the claimed invention, unless it is shown that the missing feature is so well known that documentary evidence seems unnecessary. In other words, the subject of the search should not be determined on the basis of the description of the invention (for example, the object, the working, or the effect of an invention) independent of the features set forth in the claims.

Rule 33.2(d)

4.18 [S-III-3.3] As a consequence, the international search should usually embrace also subject matter that is generally recognized as equivalent to that which is specified in the claims. This applies to the claimed subject matter as a whole, and also to its individual features even though, in its specifics, the invention as described in the international application is different. For example, if the claim specifies a cable clamp having a certain construction, the search should embrace pipe and similar clamps likely to have the specified construction. Likewise, if the claim is directed to an article consisting of several parts which are defined by their function and/or structure, and the claim stipulates that certain parts are welded together, the search should also embrace equivalent methods of connecting such as gluing or riveting, unless it is clear that welding possesses particular advantages required for the invention. The examiner should construe the terms of the claims broadly. This broad construction must, nevertheless, be reasonable and consistent with the description and drawings (if any).

Rule 91.1

4.19 [S-III-3.4] Since the applicant may not amend the claims before receiving the international search report, except to rectify obvious errors or to correct formal matters which

are contrary to the PCT and are called to the applicant's attention by the receiving Office, the international search will be directed to the claims as filed.

- Inventions for Which No Fees Have Been Paid
- 4.20 [S-III-3.20] When the claims of the international application do not relate to one invention only, nor to a group of inventions so linked as to form a single general inventive concept, the international search will normally be restricted to the invention, or so linked group of inventions, first mentioned in the claims (see Chapter 21 [XR]). If the additional fees have been paid within the prescribed time limit, all inventions covered thereby must also be searched (see paragraph VII–2 [XR]).

Article 17(3)(a)

- 4.21 [S-III-3.5] Except in the circumstances referred to in paragraphs VII–11 and VII–12, [XR] claims that are deemed to relate to inventions for which no fees have been paid should be excluded from the international search (see Chapter 21 [XR]).
- Full Coverage

Rule 33.3(b)

- 4.22 [S-III-3.6] In principle, and insofar as possible and reasonable, the international search should cover the entire subject matter to which the claims are directed or to which they might reasonably be expected to be directed after they have been amended. For example, where an international application relating to an electric circuit contains one or more claims only directed to the function and manner of operation, and the description and drawings include an example with a detailed non-trivial transistor circuit, the search must necessarily include this circuit. Nevertheless, reasons of economy may make certain restrictions of the international search necessary, for example, when there is a broad claim and many examples and it is not possible to foresee which will be the subject of amended claims.
- Speculative Claims
- 4.23 [S-III-3.7] No special search effort need be made for searching unduly wide or speculative claims, beyond the extent to which they are supported by the description. For example, if in an international application relating to and describing in detail an automatic telephone exchange, the claims are directed to an automatic communication switching center, the international search should not be extended to automatic telegraph exchanges, data switching centers, etc., merely because of the broad wording of the claim, except if it is probable that such an extended search could produce a document on the basis of which a reasonable objection as regards lack of novelty or inventive step could be established. Likewise, if a claim is directed to a process for manufacturing an "impedance element" but the description and drawings, relate only to the manufacture of a resistor element, and give no indication as to how other types of impedance elements could be manufactured by the process of the claimed invention, extension of the search to embrace, say, manufacture of capacitors, would not normally be justified. However, if a meaningful search based on a claim that is not supported by the description can be carried out without many extensions of the scope of search and much increase in the effort involved in the search, and if the scope of the claim is not unduly wide, the search should be extended to cover the claimed subject matter that is not supported by the description.

Dependant Claims

- 4.24 [S-III-3.8, start] The international search carried out for the main claim(s) must also take into consideration the subject matter of all dependent claims. Dependent claims should be interpreted as being restricted by all features of the claim(s) upon which they depend. Therefore, where the subject matter of the main claim is novel, that of the dependent claims will also be considered novel for the purpose of international search. When the novelty and inventive step of the main claim are apparent as a result of the international search, there is no need to make a further search in respect of the subject matter of the dependent claims as such. For example, in an international application relating to cathode ray oscilloscope tubes, in which the main claim is directed to specific means along the edge of the front of the tube for illuminating the screen, and a dependent claim adds a specific connection between the front and the main part of the tube, the examiner should, in the search files consulted for searching the illumination means, also search for the connecting means, whether in combination with the illumination means or not.
- 4.25 [S-III-3.8, end] When, after this search, the novelty and inventive step of the illuminating means are apparent, the examiner should not extend the search for the connecting means to further search files specifically provided for these connections.
- 4.26 [S-III-3.9] However, where the novelty or inventive step of the main claim is questioned, it may be necessary for assessing inventive step of a dependent claim to establish whether the features of the dependent claim as such are novel by expanding the field of search. No special search should be made for features that are so well known that documentary evidence seems to be unnecessary; however, if a handbook or other document showing that a feature is generally known can be found rapidly, it should be cited. When the dependent claim adds a further feature (rather than providing more detail of an element figuring already in the main claim), the dependent claim in effect constitutes a combination claim and should be dealt with accordingly (see paragraph 4.24).

Search of Particular Claim Types and Features

- 4.27 The words of a claim must be read as they would be understood by a person skilled in the art in accordance with the meaning and scope which they normally have in the relevant art. See paragraphs 13.19 through 13.29 [XR] for guidelines regarding interpretation of particular claim types and features.
- 4.28 [S-III-3.21] In two-part claims as defined by Rule 6.3(b) [XR](known as "Jepson claims" under the practice in the United States of America), the claimed invention includes the limitations of the preamble in combination with the limitations in the characterizing portion of the claim. In these cases, the preamble is regarded as a limitation on the scope of the claim (see paragraph 13.22)[XR]. In certain circumstances, it may be desirable to extend the subject matter of the international search to include the "technological background" of the claimed invention (see paragraph IV–2.7) [XR]. This would include:
- (i) the preamble portion of the claim, that is, the part preceding the expression "characterized by";
- (ii) the state of the prior art as explained in the introduction of the description of the international application but not identified by specific citations; and

- (iii) the general technological background of the invention (often called "general state of the art").
- Combination of Elements
- 4.29 [S-III-3.10] For claims characterized by a combination of elements (for example, A, B and C), the international search should be directed towards the combination; however, when searching classification units (see Chapter 7)[XR] for this purpose, sub-combinations, including the elements individually (for example, AB, AC, BC and also A, B and C separately), should be searched in those units at the same time. A search in additional classification units either for sub-combinations or for individual elements of the combination should only be performed if this is still necessary for establishing the novelty of the element in order to assess the inventive step of the combination.
- Different Categories of Claim
- 4.30 [S-III-3.11] When the international application contains claims of different categories that comply with the unity requirement (see Chapter 21)[XR], all these must be included in the international search. When the international application contains only claims of one category, it may be desirable to include other categories in the search. For example, generally, except when the international application contains indications to the contrary, one may assume that in a claim directed to a chemical process, the starting products form part of the state of the art and need not be searched; the intermediate products will only be searched when they form the subject of one or more claims; but the final products will always have to be searched, except when they are evidently known.

Cases Where No Meaningful Search is Possible

Article 17(2)(a) Rule 39, 43bis.1, 66.2(a)(v)

- 4.31 [S-III-3.19] The examiner should, in general, exclude from the international search subjects for which no searches are to be carried out or [no meaningful search] can be made; this may result, for example, from the fact that certain subjects may be excluded from the search under Rule 39 [XR], or from exceptional situations where no search at all is possible for a particular claim (see Chapter 20 [XR]). Such situations should be apparent from a corresponding objection in the written opinion which accompanies the international search report (see paragraphs 12.04, 12.09, 12.30, and 12.31 [XR])
- Obvious Errors and Matter Contrary to Public Order

Rule 9.1, 9.2, 91.1 Section 501, 511(a)(v)

- 4.32 [S-IV-1.2, start] If the examiner notices any obvious error in the international application, the International Searching Authority may invite, with Form PCT/ISA/216, the applicant to request the rectification of the error.
- 4.33 [S-IV-1.2, middle] Similarly, if the International Searching Authority notes matter contrary to public order ("ordre public") or morality or disparaging statements which ought to be omitted from the international application as published, it should suggest to the applicant, with Form PCT/ISA/218, that the applicant voluntarily correct the international application and should notify the receiving Office and the International Bureau accordingly.

4.34 [S-IV-1.2, end] Any decision on a rectification under Rule 91.1 [XR] (Form PCT/ISA/217) or any correction aimed at complying with Rule 9.1 [XR] must be transmitted to the International Bureau; corrections aimed at complying with Rule 9.1 [XR] must also be transmitted to the receiving Office.

Search Strategy

- Preliminary steps
- 4.35 [AU-S-7.1] [Reserved?]
- 4.36 [S-IV-1.3] Documents cited in the international application should be examined if they are cited as the starting point of the invention, or as showing the state of the art, or as alternative solutions to the problem concerned, or when they are necessary for a correct understanding of the application; however, when such citations clearly relate only to details not directly relevant to the claimed invention, they may be disregarded. If the international application cites a document that is not published or otherwise not accessible to the International Searching Authority and the document appears essential to a correct understanding of the invention to the extent that a meaningful international search would not be possible without knowledge of the content of that document, the International Searching Authority may postpone the search and request the applicant to provide first a copy of the document, if possible to do so within the time limits for the preparation of the international search report under the PCT. If no copy of the document is received, the International Searching Authority shall first attempt to carry out the international search and then, if necessary, indicate that no meaningful search could be carried out in total or that the search needed to be restricted.
- Abstract and Title

Rule~38

- 4.37 [S-IV-1.4] The examiner should then consider the abstract (together with the title of the invention and the figure of the drawings to be published with the abstract) in relation to the requirements of the Regulations under the PCT (see Chapter 8 [XR]). Since the abstract should relate to the international application as filed, the examiner should consider it and determine its definitive contents before carrying out the international search in order to avoid being inadvertently influenced by the results of the search. However, if there are initial obscurities, which are cleared away in the course of the search, the examiner may have to return to the abstract after the search is completed. Under certain circumstances (see Chapter 8 [XR]), the examiner will have to establish the abstract and/or title, and/or select the figure to accompany the abstract for publication purposes. Such abstract is established in the language in which the international application is to be published or, if a translation into another language was transmitted under Rule 23.1(b) [XR] and the International Searching Authority so wishes, in the language of that translation.
- Classification
- 4.38 [S-IV-1.5] The examiner, after having considered the abstract, if any, will then classify the international application according to at least the International Patent Classification (IPC) (see Chapter 7 [XR]).

Publication Prior to Search

Rule 8.2, 37.2, 38.2(a)

4.39 [S-IV-1.6] If publication of the international application is due before international search, the examiner must, upon request by the International Bureau, establish the classification of the application much earlier than the search will be carried out; he must then, at the same time, briefly examine the abstract (together with the title and selected figure) for the purpose of publication. This examination of the abstract will not go beyond ensuring that it relates to the application concerned and that no conflict exists with the title of the invention or with the classification of the application. If at that time no abstract, title or figure selection has been provided by the applicant, the examiner will have to do so. No abstract or title need be established where the International Searching Authority received a notification from the receiving Office to the effect that the applicant has been invited to furnish an abstract and/or title.

Search Statement

Article 17(2)(a)

- 4.40 [S-IV-2.1] Having determined the subject of the invention, as outlined in paragraph [XR], it may be desirable for the examiner to prepare first a written search statement, defining the subject of his search as precisely as possible. In many instances, one or more of the claims may themselves serve this purpose, but they may have to be generalized in order to cover all aspects and embodiments of the invention. At this time, the considerations relating to the exclusion from international search (see Chapter 20 [XR]) and to lack of unity of invention (see Chapter 21 [XR]) should be borne in mind. The examiner may also have to restrict the international search in exceptional situations because no search at all is possible (see paragraph 20.11 [XR]); but the examiner should not do this if it can be avoided (See paragraphs 20.10-20.16). Any restrictions of the international search on these grounds should be indicated in the international search report. If no search is made, a declaration should be issued under Article 17(2)(a) [XR].
- 4.41 [replacing S-IV-2.2 and 3] The claims should be construed and searched having particular regard to the various types and forms of claims used, such as two-part claims and product-by-process claims, as discussed in Chapter 4 [XR].

Field of Search

Rule 34

4.42 [S-III-2.2] The International Searching Authority carrying out the international search shall endeavor to discover as much of the relevant prior art as its facilities permit, and shall, in any case, consult the minimum documentation specified in Rule 34 [XR], summarized in Annex A [XR], and consider all relevant databases or other search resources listed in Annex B [XR].

Rule 43.6(b)

4.43 [S-III-2.3] This implies first of all that the International Searching Authority in searching an international application will, in principle, consult all documents with the field of search that exists in the search files or database, irrespective of their language or age, or of the type of document. Nevertheless, the examiner should, for reasons of economy, exercise appropriate judgment, based on his knowledge of the technology in question and of the documentation involved, to omit segments of the search file or databases in which the likelihood of finding any documents relevant to the international search is very small, for

example, documents falling within a period preceding the time when the area of technology in question began to develop. Similarly the examiner need only consult one member of a patent family unless there is good reason to suppose that, in a particular case, there are relevant substantial differences in the content of different members of the same family or because only another member of a patent family was published before the international filing date and must therefore be cited in the first place (see also paragraphs 6.02 and 6.03 [XR]).

Rule 33.2(a) and (b)

- 4.44 [S-III-2.4] The international search shall be carried out on the basis of the search files or databases which may contain material pertinent to the claimed invention. It should first cover all directly relevant technical fields and include any corresponding highly relevant search resources listed in Annex B [XR]. The search may then have to be extended to include other listed resources or databases, or to analogous fields, but the need for this must be judged by the examiner in each individual case, taking into account the outcome of the search in the initial fields. See paragraph 4.57 [XR].
- 4.45 [S-IV-2.4] The question of which of the listed relevant search resources, including the databases (Annex B [XR]), are to be consulted in a given area of technology must be judged by the examiner in each individual case. Classification places to be included in the international search, should be selected in all directly relevant fields and, if necessary, in analogous fields. The examiner should consider all relevant search resources for the technology field and determine those most appropriate for the international application. Search resources listed in Annex B [XR] relevant to the technical areas should be considered for relevance to the application at hand. This includes, for example, specialized search systems, abstracting journals, and on-line databases. Where searches are made by using the IPC, the selection of classification places in analogous fields should be limited to:
- (i) higher subdivisions allowing searching by abstraction (generalization) inasmuch as this is justified from a technical viewpoint, and
- (ii) parallel subdivisions, bearing in mind the fact that the fields in question will become increasingly unrelated.
- 4.46 [AU-S-7.7, start (slight extension of S-4-2.6)] Often various search strategies are possible that are relevant to the subject matter of the application. The examiner should exercise judgment based on experience and knowledge of the search resources, to select the search strategies most appropriate to the case in hand, and establish the order in which various strategies, (i.e., classification places, databases, and other resources) are to be consulted accordingly. This process should give precedence to the main technical field of the international application, and to the search resources and strategies in which the probability of finding relevant documents is highest.
- Analogous Fields
- 4.47 [S-IV-2.2] The field of search should, where appropriate, include analogous fields to the extent they are consistent with the description and drawings.

Rule 33.2(c)

4.48 The question of which arts are, in any given case, to be regarded as analogous shall be considered in the light of what appears to be the necessary function or use of the claimed

invention and not only the specific functions expressly indicated in the international application.

- 4.49 [S-IV-2.5] In determining analogous fields into which the search should be extended, it would be useful to give consideration to:
- (i) fields in which the same or similar structure would be expected by a person skilled in the art to be employed in different work or use;
 - (ii) fields to which a generic concept of claimed features pertains;
- (iii) art within the field of the inventor's endeavor and reasonably pertinent to the particular problem with which the inventor was involved;
- (iv) fields relevant to the function or utility inherent in the subject matter covered by the claims, that is, the field to which the application is most probably applied would be searched in addition to the general field of the subject matter.
- 4.50 The decision to extend the international search to fields not mentioned in the international application must be left to the judgment of the examiner, who should not try to imagine all the kinds of applications of the claimed invention that might have been envisioned by the inventor. The overriding principle in determining the extension of the search in analogous fields should be whether it is possible that a reasonable objection that there is lack of inventive step could be established on the basis of what is likely to be found by the search in these fields.

Conducting the Search

- 4.51 [AU-S-7.8] The examiner should carry out the international search, directing attention to any prior art likely to have bearing on novelty or inventive step. In addition, the examiner should also endeavor to discover any prior art likely to be of assistance in determining sufficiency of description through the whole of the field claimed, per sections 13.42-13.52 [XR] and the requirement that the claimed invention be fully supported by the description, per sections 13.53-13.62 [XR]. The examiner should also note any documents that may be of importance for other reasons, such as documents putting doubt upon the validity of any priority claimed, contributing to a better or more correct understanding of the claimed invention, or illustrating the technological background; but the examiner should not spend time in searching for these documents, nor in the consideration of such matters unless there is a special reason for doing so in a particular case. Documents which do not qualify as prior art because they post date the claimed invention may nevertheless be cited to show a universal fact, such as characteristics or properties of a material, or a specific scientific fact, or to show the level of ordinary skill in the art at or around the time the invention was made.
- 4.52 [AU-S-7.9] The examiner should concentrate the search efforts on the search resources and strategies in which the probability of finding highly relevant documents is greatest. He should always take account of the search results already obtained in considering whether to extend the search (i.e., consult additional databases, broaden a search query, or include additional classification places).
- 4.53 [AU-S-7.10] The examiner typically conducts a search of the patent literature first. In certain art areas, such as those identified in Annex B [XR], a search of the non-patent literature may be necessary. However, regardless of the art being searched, if little or no

relevant patent prior art is located, the examiner should consider broadening the resources searched to include databases containing non-patent literature.

- 4.54 [AU-S-8.13] Note that no special search should be made for features that are instantly and unquestionably demonstratable as being well known such that documentary evidence seems unnecessary. Preferably, however, a handbook or other document showing that a feature is generally known should be cited if practicable.
- 4.55 [AU-S-7.11] No documents found. If no documents of a more relevant nature for assessing novelty and inventive step are available, the examiner should consider citing the documents most relevant to the "technological background" of the invention which have been noted during the international search. Generally speaking, no special search effort will be undertaken for this purpose. However, the examiner may exercise discretion here in special cases. In very exceptional cases, an international search may be completed without any relevant document having been found.
- 4.56 [S-IV-2.11] Stopping search. Reasons of economy dictate that the examiner use appropriate judgment to end the search when the probability of discovering further relevant prior art becomes very low in relation to the effort needed. The international search may also be stopped when one or more documents have been found clearly demonstrating lack of novelty in the entire subject matter to which the claims are directed or to which they might reasonably be expected to be directed, apart from features the application of which would not involve an inventive step and which are instantly and unquestionably demonstratable as being well known in the field under consideration such that documentary evidence seems to be unnecessary. See paragraph 4.18 [XR]. The examiner is encouraged to continue searching if there are any outstanding issues regarding the requirement for a clear and complete description of the claimed invention so as to enable a person skilled in the art to make and use the invention through the whole of the field claimed, the requirement that the claimed invention be fully supported by the description, or the requirement of industrial applicability and these issues could be clarified by additional prior art. See paragraph 4.53 [XR].

Rule 43.6(b)-(c)

4.57 [AU-S-7.12] [The search history is to be retained on the search file. This includes details of all patent and non-patent literature searches as well as searches conducted on the Internet. All specific search queries used by the examiner must be recorded. Where an electronic database is used in carrying out the international search, the name of the database, the vendor providing the database, and the actual search queries used must be recorded.

Once the international application has been published, an electronic version of the complete search that was performed, including all queries used for each searched database and all other information about the search necessary to update or reconstruct that search, will be available in association with the Search Copy of the international application to any interested party.]

Evaluating the Prior Art

- 4.58 [AU-S-8.2] The examiner makes a determination of whether the claimed invention meets the standards for novelty and inventive step as set out in Chapter 16 [XR].
- 4.59 [S-VI-8.5] In cases where the examiner makes an interpretation of specific claim types (see paragraphs 4.23 to 4.26 [XR] for example, claims in two-part form, types of expression), the evaluation of references for such claims follows from that interpretation.

Matters of Doubt Regarding Relevant Prior Art

- 4.60 [S-VI-6.1] Since decisions with respect to novelty are not the responsibility of the International Searching Authority but of the designated Offices, the International Searching Authorities should not discard documents because of doubt as regards, for example, the exact date of publication or public availability, or the exact contents of an oral disclosure, exhibition, etc., to which such documents may refer. The International Searching Authority should try to remove any doubt that may exist and should cite the documents concerned in the international search report unless the date of publication or of public availability of the document concerned is clearly the same as, or later than, the filing date of the international application. Additional documents providing evidence in matters of doubt may be cited.
- 4.61 [S-VI-6.2] Any indication in a document of the date of its publication should be accepted by the International Searching Authority as correct unless proof to the contrary is offered, for example, by the International Searching Authority, showing earlier publication, or by the applicant, showing later publication. If the indicated date of publication is insufficiently precise (for example, because a year or year and month only are given) to establish whether publication was before the filing date of the international application, the International Searching Authority should endeavor to establish the exact date with sufficient precision for that purpose. A date of receipt stamped on the document, or a reference in another document, which must then be cited, may be of assistance in this respect.
- Excluded subject matter
- 4.62 [S-VI-8.6] Special attention should be paid to the evaluation of references when assessing subject matter which may be excluded from the international search. If, in the Office acting as International Searching Authority, such subject matter is considered non-statutory, the category symbol is assigned based on the subject matter which might reasonably be expected to be claimed by amendment. Where other claims appearing in the international application are directed to statutory subject matter, the assessment of subject matter which might reasonably be expected to be claimed by amendment should be made taking into account the subject matter of the statutory claims. If, on the other hand, in the Office acting as International Searching Authority, such subject matter is considered statutory, the category symbol is assigned based on the claims appearing in the international application.

Rule 43.5(c) Section 505

4.63 [S-IV-3.1] Most relevant documents. After completion of the international search, the examiner should select, from the documents retrieved, the ones to be cited in the international search report. These should always include the most relevant documents, which will be specially characterized in the report. Less relevant documents should only be cited when they concern aspects or details of the claimed invention not found in the documents already selected for citation. In cases of doubt or borderline cases in relation to novelty or inventive step, the examiner should readily make citations in order to give the applicant, the designated Offices and the International Preliminary Examining Authority the opportunity to consider the matter more fully.

Rule 43.5(c) to (e) Section 507(g)

4.64 [S-IV-3.2] Cite only necessary documents. To avoid increasing costs unnecessarily, the examiner should not cite more documents than is necessary, and therefore when there are several documents of equal relevance, the international search report should not normally cite

more than one of them. When more than one member of the same patent family is present in a search file, the examiner, in selecting from these documents for citation, should pay regard to language convenience, and preferably cite (or at least note) documents in the language of the international application. All other members of the same patent family should be cited in the international search report. Also, due regard should be paid to the possible need of the designated Offices to translate cited documents. Therefore, the examiner should, whenever possible, identify precisely the part or passage of a cited document which is relevant by, for example, indicating also the page and paragraph or lines where the relevant passage appears.

4.65 [S-VI-5.1] As a general rule, the examiner will select for citation only documents which are present in the search files of the International Searching Authority or to which access is readily available in some other manner; in that way no doubt will exist about the contents of the documents cited, since the examiner will generally have physically inspected each document cited.

Section 507(g) and (h)

- 4.66 [S-VI-5.2] However, under certain circumstances a document whose contents have not been verified may be cited, provided there is justification for the assumption that there is identity of contents with another document which the examiner has inspected and cited. Both documents should then be mentioned in the international search report. For example, instead of the document published before the international filing date in an inconvenient language and selected for citation, the examiner may have inspected a corresponding document (for example, another member of the same patent family, or a translation of an article) in a more convenient language and possibly published after the international filing date (see also paragraph 4.39 [XR]); also the examiner may assume that, in the absence of explicit indications to the contrary, the contents of an abstract are contained in the original document. Also the examiner should assume that the contents of a report of an oral disclosure are in agreement with that disclosure.
- 4.67 [S-VI-5.3] Before citing documents in a language with which he is not familiar, the examiner should be satisfied that the document is relevant (for example, through translation by a colleague, through a corresponding document or abstract in a familiar language, through a drawing, or chemical formula in the document).
- 4.68 [AU-S-8.11] The copy of any document cited is retained in the search file.

IV-3. Procedure after searching

- 4.69 [S-IV-3.3] Report preparation. Finally, the examiner should prepare the international search report (see Chapter 6 [XR]).
- 4.70 [S-IV-3.4] Amended search report. It may happen occasionally that, after completion of an international search report, the International Searching Authority discovers further relevant documents (for example, in a later search for a related application). These should be added to the international search report up to the time of completion of the technical preparations for its publication by the International Bureau. An amended international search report should be sent to the applicant and to the International Bureau promptly. Thereafter, if within two years from the priority date of the international application the International Searching Authority should discover any particularly relevant document, it should amend the international search report and mark the report clearly as "amended." The International Searching Authority should then send a copy of the amended report to the applicant and another copy to the

International Bureau for subsequent communication to the designated Offices and the International Preliminary Examining Authority.

Article 19

4.71 [S-IV-3.5] Misdirected Article 19 [XR] amendments. Where the International Searching Authority, after transmittal of the international search report, receives from the applicant by mistake amendments to the claims under Article 19 [XR], it may transmit them promptly to the International Bureau, with which they should have been filed, and inform the applicant accordingly.

CHAPTER 5 [RESERVED]

CHAPTER 6 INTERNATIONAL SEARCH REPORT

General

- 6.01 [S-X-1.1] The results of the international search will be recorded in the international search report (Form PCT/ISA/210), which is transmitted with Form PCT/ISA/220 to the applicant and with Form PCT/ISA/219 to the International Bureau. The search report will be published by the International Bureau and will serve as a basis for the written opinion of the International Searching Authority, any international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty), and any examination of the international application by the designated Offices or by the International Preliminary Examining Authority.
- 6.02 [S-X-1.2] The examiner is responsible for seeing that the international search report is drawn up in such a way that it can subsequently be typed or printed in final form. Samples of filled-in forms are found in Annex <<>> to these Guidelines.

Time limit for establishing the international search report

Article 17(2), 18(1) Rule 42.1

6.03 [S-X-8.1, plus AU-S-9.1][Time to establish. The international search must be carried out in time to allow the final establishment of the international search report or of a declaration under Article 17(2) [XR] (see Chapter 20 [XR]) before the expiration of three months from the receipt of the search copy by the International Searching Authority which is notified to the applicant on Form PCT/ISA/202, or nine months from the priority date, whichever time limit expires later. If in case of lack of unity of invention or of an invitation to file a sequence listing the time limit cannot be met, the international search report must be established promptly after the receipt of additional search fees or after the expiration of the time limit for payment of such fees, if no such payment is made, or after the receipt of the sequence listing. When unforeseen circumstances arise, such as the examiner being unexpectedly absent, and this is likely to prevent the search being completed within its target time, contingency measures should be employed where practical. For example transferring the search to another examiner for completion should be contemplated.]

Section 110, Section 504, Section 503, Section 508, AI Annex B

- 6.04 [S-X-1.3] Completion of search report form. This Chapter contains information which is necessary to enable the examiner to complete the form correctly. Further information is contained in the following Sections of the Administrative Instructions:
 - (i) for the indication of dates: Section 110 [XR];
 - (ii) for the classification of the international applications: Section 504 [XR];
- (iii) for the identification of the cited documents: Section 503 [XR]; Section 505, 507[XR]
 - (iv) for the indication of special categories of documents: Sections 505 and 507 [XR];
- (v) for the indication of the claims to which cited documents are relevant: Section 508 [XR];

(vi) for the consideration of unity of invention: Annex B to the Administrative Instructions.

No additional matter

Rule 43.9

6.05 [S-X-1.4] The international search report must contain no matter other than as required by the form; in particular, it must contain no expressions of opinion, reasoning, arguments or explanations.

Different types of international search reports

Article 16(1), Article 15(5)

- 6.06 [S-X-2.1] Types of search reports. The International Searching Authority shall draw up the following types of search reports:
 - (i) international search report;
 - (ii) international-type search report.

Form and language of the international search report

International search report form

Section 507(g)

6.07 [S-X-3.1 and AU-S-9.1] Following completion of the search, the examiner will reconsider the classification in the light of experience acquired during the search and will prepare the International Search Report (form PCT/ISA/210) and the Notification of Transmittal of the ISR (form PCT/ISA/220) –(see Annex C). Once an examiner has completed the search, there should be no delay in completing the search report. The printed international search report form (Form PCT/ISA/210) to be transmitted to the applicant and to the International Bureau contains two main sheets ("first sheet" and "second sheet") to be used for all searches. These two main sheets are intended for recording the important features of the search such as the fields searched and for citing documents revealed by the search. The printed international search report form also contains five optional continuation sheets for use where necessary. There are two continuation sheets for each of the "first sheet" and the "second sheet": "continuation of first sheet (1)" and "continuation of first sheet (2)," and "continuation of second sheet" and "patent family annex," respectively. The "continuation of first sheet (1)" is to be used only where an indication is made on the first sheet that claims were found unsearchable (item 1) and/or unity of invention is lacking (item 2). The relevant indications must then be made on that continuation sheet. The "continuation of first sheet (2)" is to contain the text of the abstract where an abstract or an amended abstract has been established by the International Searching Authority (item 5) and an indication to that effect is made on the first sheet. The "continuation of second sheet" is to be used where the space on the second sheet is insufficient for the citation of documents. The "patent family annex," or alternatively a blank sheet, may be used for the indication of the members of patent families. Lastly, the "extra sheet" may be used whenever additional space is required to complete information from the other sheets. Annex C [XR] to these Guidelines includes a sample filledin international search report form.

Language of search report

Rule 43.4

- 6.08 [S-X-3.2] The international search report shall be drawn up in the language in which the international application to which it relates is to be published, or, if a translation into another language was transmitted under Rule 23.1(b) [XR] and the International Searching Authority so wishes, in the language of that translation.
- Minimum sheets
- 6.09 [S-X-3.3] It is to be noted that only the "second sheet," the "continuation of second sheet" (if any) and the "continuation of first sheet (1)" (if any), as well as any separate sheet with information on members of patent families, will be the subject of international publication, as the "first sheet" and the "continuation of first sheet (2)" (if any) contain only information which will already appear on the front page of the pamphlet.
- International-type search
- 6.10 [S-X-3.4] If an international-type search has been carried out, Form PCT/ISA/201 may be used for the report.

Filling out the Notification of Transmittal of the International Search Report of the Declaration (form PCT/ISA/220)

Address for correspondence

Ad Inst 108

- 6.11 [AU-S-9.2] This should be taken from the PCT Request Form (PCT/RO/101).
- 6.12 When an agent represents the applicant, the address for correspondence is listed in Box IV of the PCT Request form.
- 6.13 For applicants processing their own applications, the address for correspondence may be listed in Box II of the PCT Request form.
- 6.14 Note: Check correspondence on file for any changes in the applicant or address for correspondence.
- Applicant's or agent's file reference

Ad Inst 109

- 6.15 [AU-S-9.4] This is taken from the PCT Request Form (PCT/RO/101).
- 6.16 The applicable file reference is the most recent file reference from the latest correspondence from the applicant or the agent.
- International application number
- 6.17 [AU-S-9.5] This is allocated by the RO.

- International filing date
- 6.18 [AU-S-9.6] This date is assigned by the RO upon receipt of the international application. This date is recorded on the PCT Request Form a copy of which is included in the search file.

Ad Inst 105

- Applicant
- 6.19 [AU-S-9.7] When there is more than one applicant in respect of the PCT Application, only the first mentioned of these has to be indicated in the International Search Report. The other applicants, if any, are indicated by the words "et al" (or ET-AL) following the first applicant's name. The first mentioned applicant is indicated in Box II of the PCT Request form, a second applicant is listed in Box III; further applicants will be listed on the continuation sheet if there are more than two applicants.
- Example (a): AMERICAN TECHNOLOGIES INC. et al.
- Example (b): SMITH, John Doe

Notes:

- (a) As shown above, company names are written in capital letters; for personal names the family name is given first in capital letters and the given names are in mixed case-this helps to identify the family name.
- (b) These guidelines will be followed, mutatis mutandis, when the International Search Report is being prepared in a language, such as Japanese, that does not discriminate between uppercase and lowercase characters or when the language of the International Search Report has a different order of indicating surnames and given names.
- Establishment of search report
- 6.20 [AU-S-9.8] Refer to Chapter 20 [XR] which deals with subjects to be excluded from the search, for example, scientific and mathematical theories, plant or animal varieties, schemes, rules or methods of doing business, or computer programs.
- Non-establishment of report
- 6.21 [AU-S-9.9]Refer to the end of Chapter 20 [XR] which indicates the course of action to be taken in this case.
- Payment of fees under protest
- 6.22 [AU-S-9.10]Refer to Chapter 21[XR] which indicates the course of action to be taken in this case.

Filling out the International Search Report (form PCT/ISA/210)

- Earliest priority date
- 6.23 [AU-S-9.12] This information is given in the PCT Request form (PCT/RO/101) in Box VI.

- Total number of sheets
- 6.24 [AU-S-9.13] The first sheet of the ISR will indicate the total number of sheets in the report. The examiner should ensure that the correct number is indicated. Do not include sheets which have not been filled in (blank sheets). The number of sheets should only include the number of sheets contained in Form PCT/ISA/210. It does not include the number of sheets in Form PCT/ISA/220 as this is a letter to the applicant/attorney only.
- "It is also accompanied by a copy of each prior art document cited in this report" box
- 6.25 [AU-S-9.14] The area responsible for dispatching the report would ordinarily be responsible for completing this box. Therefore the examiner would leave this blank.
- Translation of the international application furnished under Rule 23.1(b) [XR]
- 6.26 [AU-S-9.15] Where a translation of the international application is furnished under Rule 23.1(b) [XR], a copy of that translation and of the request, which together shall be considered to be the search copy under PCT Article 12(1) [XR], shall be transmitted by the RO to the ISA, unless no search fee has been paid. In the latter case, a copy of the said translation and of the request shall be transmitted promptly after payment of the search fee.
- Nucleotide and/or amino acid sequence listings
- 6.27 [AU-S-9.16] Refer to Chapter 19 [XR]. Where the application disclosed any nucleotide and/or amino acid, the report should indicate the form and content (e.g., paper copy, computer readable form) of the sequence listing that the search was carried out on. See Chapter 8 [XR] for further details.
- Restriction of the subject of the international search
- 6.28 The report must indicate whether the search was restricted or not for any of the reasons indicated below.
- 6.29 [S-X-6.2] Non-searched subject matter. If any such restrictions were applied, the claims in respect of which a search has not been carried out must be identified and the reasons for this should be indicated. The three categories where such restrictions may arise are:
 - (i) claims drawn to subject matter excluded from the search (see Chapter 20) [XR];
- (ii) claims in respect of which a meaningful search cannot be carried out (see Chapter 20) [XR];
 - (iii) lack of unity of invention (see Chapter VII) [XR].
- 6.30 Where lack of unity has been found, box 3 of the first sheet of the International Search Report (form PCT/ISA/210) must be checked. In addition, Box II of the PCT/ISA/210 is to be completed, irrespective of whether an invitation to pay additional search fees has issued. The search report must indicate the separate inventions present in the claims, whether additional search fees were requested and paid, and which claims were searched. It should also indicate whether any additional search fees were accompanied by a protest. Annex C [XR] includes example search report portions for the situation where unity of invention is lacking.

- 6.31 Note: Claims which rely, in respect of the technical features of the invention, on references to the description or drawings ("omnibus claims") are searched and reported upon if they can be given a definite construction. In the IPE stage, any breach of Rule 6.2(a) [XR]no reference to the description or drawings except when absolutely necessary-may be reported in Box VII of the opinion or report.
- *Multiple dependent claims*
- 6.32 [AU-S-9.24] Refer to Rule 6.4 (a) [XR].
- 6.33 Ignore box I (3) if the relevant National law allows multiple dependent claims.
- *Lack of unity*
- 6.34 [AU-S-9.25]Refer to Chapter 21 [XR].
- Remarks on lack of unity fees paid under protest
- 6.35 [AU-S-9.26] Refer to Chapter 21[XR]
- Abstract and title

Rule 8, 44.2

6.36 [S-X-5.1] Abstract, title and figure. In the international search report, the examiner must indicate approval or amendment of the text of the abstract, the title of the invention, and the selection of the figure which is to accompany the abstract. If amendment is desired, the details thereof should be indicated.

Rule 37.1, Rule 38.1

- 6.37 [AU-S-4.1]Where the international application lacks a title and/or abstract, the relevant RO should find this in their routine check and notify the applicant accordingly, allowing one month from the mailing date of the notification for a reply. The RO should also notify the ISA that an invitation has been sent.
- 6.38 WIPO guidelines for the preparation of abstracts are found in WIPO Standard ST.12/A [XR].

Rule 8.1(a)

Rule 8.3

- 6.39 [AU-S-4.2] In considering the adequacy of applicant's abstract and figure, because of practical difficulties experienced by the International Bureau (IB) with publication, examiners when assessing or drafting abstracts, should have particular regard to the following:
- It is important that the abstract be as concise as the disclosure permits (preferably 50 to 150 words if it is in English or when translated into English). Within this constraint the abstract must provide a summary of the technical information about the disclosure as contained in the description, claims and drawings. It should be drafted so as to serve as an efficient scanning tool for searching purposes in the art.
- Phrases should not be used which can be implied, such as, "This disclosure concerns", "The invention defined by this disclosure" and "This invention relates to".

Rule 8.2(b)

- (c) Only one figure should be selected unless this would lead to inadequate disclosure. The inclusion of more than two figures should not be considered except in extreme circumstances where necessary information cannot be otherwise conveyed. Where none of the figures is considered useful for the understanding of the invention (even where the applicant has suggested a figure), no figure should be selected.
- (d) Abstracts may be incomprehensible if the numerals on the selected figure(s) do not correspond with those in the text.
- (e) An absence of reference numerals on the figures must be accepted as the examiner has no mechanism to initiate their provision.

Rule 8.1(d)

(f) Each main technical feature mentioned in the abstract and illustrated by a drawing shall be followed by a reference sign, placed between parentheses.

Rule 38.2(a)

- 6.40 [AU-S-4.3] If the international application does not contain an abstract and the International Searching Authority has not received a notification from the receiving Office to the effect that the applicant has been invited to furnish an abstract, or if the said Authority finds that the abstract does not comply with Rule 8, it shall itself establish an abstract.
- 6.41 [AU-S-4.5] The review of the abstract should be conducted in a way that does not impact upon the date of actual completion of the search. This review should be completed in parallel with other steps in the process.
- 6.42 [AU-S-4.6] The applicant can only comment on the abstract prepared by the examiner after it has been established in the ISR (see search report form PCT/ISA/210, first sheet, item 5. This is the only invitation to comment issued to the applicant. It occurs either when no abstract has been filed or when the originally filed abstract does not comply with Rule 8, and the examiner must prepare a compliant abstract. In this event the examiner establishes an appropriate abstract.

Rule 38.2(b)

- 6.43 [AU-S-4.7] The applicant is allowed one month from the date of mailing of the ISR to respond to the examiner's abstract in the report.
- 6.44 [AU-S-4.8] If the applicant does comment, the examiner must take the applicant's comments into consideration. It is not necessary for the examiner to reply to the applicant's comment even if adverse.

Rule 38.2(b)

Ad Inst 515

6.45 [AU-S-4.9] If the ISA amends the abstract established in the ISR it will notify the International Bureau (IB) and the applicant using form PCT/ISA/205. Annex shows an example of a completed form 205.

- Title

Rule 4.3 Rule 26.1 Rule 37.2 Rule 44.2

- 6.46 [AU-S-4.10] The examiner is required to consider the adequacy of the title. An inadequate title may be too vague e.g. "Process" or include redundant phrases such as "Improvements in ...".
- 6.47 [AU-S-4.11] The examiner is required to draft a title where:
- (i) the applicant has not responded to the invitation from the RO to provide a title within the time allowed,
- (ii) no title was filed and the RO omitted to invite the applicant to rectify the deficiency, or
 - (iii) the title filed is deficient.
- 6.48 [AU-S-4.12] The examiner is not required to gain the approval of the applicant for the title and the establishment of the title by the examiner is by suitable completion of the search report form (see check box 4 of the first sheet of form PCT/ISA/210).
- Drawings to be published
- 6.49 [AU-S-9.21] When indicating the Figure No. of the drawings, the applicant's suggestion is found at Box IX of the International Application Request (PCT/RO/101) (March 2001 version).
- 6.50 Where none of the figures is considered useful for the understanding of the abstract, indicate this at the appropriate box (item 6, first sheet).
- 6.51 When no drawings accompany the application do not cross any of the boxes.
- 6.52 It is not recommended to select more than one figure; however, if it is necessary to do so then change the wording to reflect the change from single case to plural case. For example, change "figure" to "figures", "is" to "are" and "No." to "Nos.". (These recommendations will be followed, mutatis mutandis, when the International Search Report is being prepared in a language, such as Japanese, that does not have distinction between singular and plural forms.)
- Classification of Subject Matter

Rule 43.6(a)

- 6.53 [AU-S-9.28] The international search report shall list the classification identification of the fields searched. An ISA must assign obligatory "invention information" IPC symbols in accordance with the rules as set forth in the Guide to the IPC and in the IPC itself (using the edition of the IPC in force at the time of the assignment). Non-obligatory IPC symbols (such as the optional IPC indexing codes) do not need to be applied. If the IPC is not used for this purpose, the classification used has to be indicated.
- 6.54 See Annex for the relevant extract from the Guide to the IPC.

Fields Searched

- [6.55 The International Search Report shall, as specified below, indicate the fields searched. Once the international application has published, an electronic version of the complete search that was performed, including all queries used for each searched database and all other information about the search necessary to update or reconstruct that search, will be available associated with the Search Copy of the international application to any interested party.]
- Minimum documentation searched
- 6.56 [AU-S-9.29] The International Searching Authority shall consult the minimum documentation specified in Rule 34 [XR], summarized in Annex A [XR] and consider all relevant databases or other search resources listed in Annex B [XR].
- (a) Where the IPC classification places were searched, without restricting the search by using keywords enter the associated IPC symbols;
- (b) If keywords were used in conjunction with IPC symbols to restrict the search then leave this section blank.
- Documentation searched other than minimum documentation

Rule 43.6(b)

- 6.57 [AU-S-9.30] Where documentation other than the PCT minimum documentation is searched, the other documentation searched is identified in the report. This section is used for non-electronic databases searched, e.g., paper or microfilm. It is used for example, for:
- (a) Capri-enter "CAPRI" and the appropriate IPC code for the classification searched, e.g., "CAPRI: IPC F16B 1/02".
- (b) Search of patent specifications not forming part of the minimum documentation according to a classification system peculiar to the country issuing the patent enter classification searched, e.g., "AU Class 53.6"
- (c) Search of patent specifications not forming part of the minimum documentation according to the IPC enter the IPC codes for the classification places searched, e.g., "AU: IPC B65G 51/-".
- Electronic database consulted

Rule 43 6(c

- 6.58 [AU-S-9.31] Where an electronic database is used in carrying out the international search, the name of the database and, the exact search queries used to search the database are indicated in the report.
- 6.59 Where keywords (search terms) are used, they should always be included. If the number of keywords used is large then a representative sample of the keywords could be used (e.g., "Keywords: A, B, C, and similar terms"). Truncation symbols need not be included. The logic used in relation to the search terms should not be included.
- 6.60 Partial structure searches are not conveniently indicated on the search report. If a partial structure search was carried out this can be indicated by a statement such as "partial structure search carried out based on the quinoline nucleus in formula (I)".

6.61 Sequence searches should be dealt with in the same way as partial structure searches ("search of SEQ ID 1-5").

Examples:

DWPI & keywords: A, B, C, and similar terms (Note; DWPI includes WPAT, WPI, WPIL)

JAPIO & keywords: A, B, C, and similar terms

MEDLINE & keywords: A, B, C, and similar terms

DWPI IPC A01B 1/- & keywords: A, B, C

CA & WPIDS: IPC C07D 409/- & keywords: A, B, C

CA: Structure searched based on Formula (I)

ESP@CE keywords: A, B, C.

Notes:

- (a) Merely putting "keywords searched" without specifying the actual keywords used is not acceptable.
- (b) There is no need to indicate the way the database was accessed, e.g., there is no need to specify that ESP@CE was accessed via the Internet, or MEDLINE via STN.]
- Previous search
- 6.62 [S-X-4.2] Where the international search report is entirely or partly based on a previous search made for an application relating to a similar subject, the relevant search files consulted for this previous search must also be identified in the report as having been consulted for the international application in question.
- Documents considered to be relevant

Rule 43.5

- 6.63 [AU-S-9.32] The completion of this part of the international search report can be considered as having three components. These are: the citation category; the citation of the document together with identification of relevant passages where appropriate; and the identification of relevant claim numbers. These three components are discussed separately in paragraphs 9.32.1, 9.32.2 and 9.32.3 [XR], respectively, below.
- 6.64 Some general points to note are:

Rule 33.1

(a) In completing an international search report examiners must not cite more documents than is necessary, but care must be taken not to inappropriately exclude documents of particular relevance from the report. That is, documents in either X or Y category, even if they are also P category, should not be excluded where they disclose subject matter of particular relevance not disclosed in other documents, as these documents will be of interest to many Designated Offices.

- (b) In most cases there should be no need to cite A category documents when X and/or Y category documents are cited (if needed, then it would normally be expected that no more than two category A documents would be necessary unless the documents are cited with respect to features not claimed but reasonably expected to be claimed in future amendments).
- (c) Documents selected for citation should be relevant to the largest number of claims possible.
- (d) While the number of documents cited in an international search report should not normally exceed about ten, this number can and should be exceeded if it is necessary to do so to cover all of the claims. Note: Documents should not be cited simply to top-up the number of documents cited to some 'magical' number.
- (e) Documents cited should be based on the full copy of the document and not on the abstract thereof, except where practicalities require otherwise.
- (f) In cases where a document has a publication date after the filing date of the international application, but has a family member of foreign language with a publication date earlier than the filing date, then both documents should be cited. In these circumstances the document actually viewed is cited followed by the foreign language family member not viewed identified in brackets, e.g., US 4282353 A (CIBA-GEIGY AG) 12 June 1980 col 2-3, fig 2 (& DE 2947734 A1).
- 6.65 Where the search has revealed patent and non-patent literature documents disclosing the same subject matter of particular relevance, preference should be given to citing patent documents in the search report.
- Citation category

Ad Inst 505 Ad Inst 507

- 6.66 [AU-S-9.32.1] Documents which are cited are given a category indication by way of an alphabetic character, details of which are given in Administrative Instructions 505 and 507 [XR]. The categories for citations are also explained under the "Documents considered to be relevant" section of the report. A category should always be indicated for each document cited.
- 6.67 [S-VI-8.2] The category symbol assigned to a cited reference should be based, as a general rule, on the claims as they appear in the international application. The symbols "X", "Y" and "A" are to be used to indicate the technical relevance of the cited documents in relation to the claims concerned. In evaluating cited documents, the examiner should not read into the claims any limitations that are disclosed in the description and drawings (if any) but not claimed.
- Symbol "X": Evaluation of novelty
- 6.68 [S-VI-8.7] A document whose content destroys the novelty of at least one independent claim, and possibly that of one or more claims depending on it is categorized as "X."
- 6.69 [S-VI-8.8] Where there is a trivial difference merely in wording, but not essential between the claimed subject matter and that disclosed in the reference, category "X" is assigned to the reference.

- 6.70 [S-VI-8.9] A generic disclosure does not usually take away the novelty of any specific example falling within the terms of that disclosure, but a specific disclosure does take away the novelty of any generic claim embracing that disclosure. Therefore, where a claimed subject represents a generic concept, of which the document describes a specific case, category "X" is assigned to the document.
- Symbol "X": Evaluation of inventive step
- 6.71 [S-VI-8.10] A document whose content alone calls into question the inventive step of at least one independent claim, and possibly that of one or more claims depending on it would be categorized as "X." This occurs in the following cases, for example:
- (i) where a technical feature known in a technical field is applied from its original field to another field and its application therein would have been obvious to a person skilled in the art;
- (ii) where a difference between the document's content and the claimed matter is so well known that documentary evidence seems unnecessary;
- (iii) where a claimed subject matter relates to the use of a known product, and the use would have been obvious from the known properties of the product;
- (iv) a claimed invention differs from the known art merely in the use of equivalents that are so well known that the citation of documentary evidence is unnecessary.
- Symbol "X": Other considerations
- 6.72 [S-VI-8.11] Dependent claims must be read as a whole taking into account and incorporating limitations of the claim from which they depend. In assessing dependent claims, the following points are to be considered:
- (i) documents assigned "X" category for dependent claims, would also be assigned category "X" for the claims from which the dependent claims depend;
- (ii) relevant documents should be assigned category "X" when a claim involves several options and the novelty is destroyed or inventive step is called into question of at least one option, solely by the documents concerned.
- Symbol "Y": General
- 6.73 [S-VI-8.12] In order to establish that a claim lacks inventive step, the claimed invention taken as a whole must have been obvious to a person skilled in the art.
- 6.74 [S-VI-8.13] There must be some collective "teachings" in the prior art that would suggest to a person skilled in the art why the references' teachings are combinable. It would be preferable if the "teaching" were described explicitly in a prior document. But the "teaching" to combine references need not be explicitly found in the reference. This includes such cases where the prior art produces the grounds for reasoning that a person skilled in the art could have easily arrived at the claimed invention based on the prior art documents.
- 6.75 [S-VI-8.14] Inventive step can be called into question by combination of cited documents for example in the following cases:

- (i) obvious choice from a number of alternatives which are equivalent: in a case where a document disclosed all the claimed features except for the selection of alternatives, and another document teaches that the two alternatives are equivalent in their work and result, it would have been expected of a person skilled in the art to combine the two documents, which make up the claimed features;
- (ii) a claimed invention consists merely in the juxtaposition or association of known devices or processes functioning in their normal way and not producing any non-obvious working interrelationship;
- (iii) the collective suggestions of the references show recognition and solution of the problem addressed by the applicant as providing a rationale for combining "teachings" of the references.
- Symbol "Y": Evaluation of Dependent Claims
- 6.76 [S-VI-8.15] Dependent claims must be read as a whole taking into account and incorporating limitations of the claim from which they depend. In assessing dependent claims, the following considerations apply.
- 6.77 [S-VI-8.16] A combination of "Y" documents should be concerned not only with a dependent claim's characterizing portion itself, but with its combination with the claim(s) on which it depends.
- 6.78 [S-VI-8.17] A combination of "Y" documents obviously cannot be used for a dependent claim if the claim(s) on which it depends is (are) not also called into question by the combination of "Y" documents or by one of them designated "X."
- Symbol "Y": Other considerations
- 6.79 [S-VI-8.18] Category "Y" should not be used for one document only.
- 6.80 [S-VI-8.19] "Y" category documents relevant to the same claims should be cited in a successive order of relevance as much as possible.
- 6.81 [S-VI-8.20] Relevant documents should be assigned category "Y", when a claim involves several options and the documents can be assigned in two ways, that is, category "Y" or category "A" according to the contents of the options.
- Symbol "A": Documents which cover the prior art portion

Section 507

6.82 [S-VI-8.21] The symbol "A" is assigned to:

- (i) a document intended to exemplify or delimit the prior art portion of an independent claim more satisfactorily, but there is no located document which in combination would have called into question the inventive step of a claim, and therefore the document alone does not call the inventive step into question;
- (ii) a document describing the background art, assumed to be known in the context of the introductory part of the description but not identified by precise citations.

- Symbol "A": Documents which cover the characterizing portion
- 6.83 [S-VI-8.22] The symbol "A" is assigned to a document concerning the part of the features of a claim's body or characterizing portion, but not calling the inventive step into question.
- Symbol "A": Other types of document
- 6.84 [S-VI-8.23] The symbol "A" is also assigned to a document describing the general technological background to the invention.
- Symbol "D"
- [6.85 The symbol "D" should be used to designate any document (published patent application or patent) or conflicting international application filed on or after the international filing date of the international application under search/examination which relates to the same invention (even though it may not necessarily claim that invention in identical terms) and having some relationship of inventorship or ownership in common with the international application under search/examination.]
- Symbol "E"
- 6.86 [S-VI-8.24] The symbol "E" is used when the document (published application or patent) was filed before the international filing date and was published after the international filing date. It should always be accompanied by a symbol indicating the relevance of the document ("X", "Y" or "A").
- Symbol "L"
- 6.87 [S-VI-8.25] The symbol "L" should be used for citing documents which are not otherwise designated by other symbols such as undated printed publications. The reason for citing the documents should be described next to the citation of the documents.
- 6.88 [S-VI-8.26] In the case where undated printed publications are cited, the examiner should point out the close similarity of the subject matter described to the claims and should indicate that the publication dates are being sought.
- Symbol "O"
- 6.89 [S-VI-8.27] The symbol "O" is used to designate documents which contain information concerning prior oral disclosure, public use or other prior public knowledge on the invention. It should always be accompanied by a symbol indicating the relevance of the document ("X", "Y" or "A").
- Symbol "P"
- 6.90 [S-VI-8.28] The symbol "P" is used to designate documents having a publication date prior to the filing date of the international application but after the priority date of the application. It should always be accompanied by a symbol indicating the relevance of the document ("X", "Y", or "A").

- Symbol "T"
- 6.91 [S-VI-8.29] The symbol "T" is used to designate documents which may be useful for a better understanding of the invention. For example, a reference may be categorized as "T" reference if it is of assistance in determining that the claimed invention does or does not have industrial applicability or that it is or is not described in such a way so as to enable a person skilled in the art to make and use the invention.

Ad Inst 508

- 6.92 It is possible that a particular document may have more than one category specified in the report. For instance a citation may be an anticipation and so be indicated as X, and also in its introductory portion contain a good description of the developments in the appropriate field up to that time, and so also be indicated as A.
- 6.93 A separate line, with references, is employed for each category assigned. Particularly relevant passages of citations should be indicated where the particular relevance might not be otherwise readily apparent from the document. (Refer to Annex C for examples.)
- Citation of the documents

Ad Inst 503

WIPO Standard ST.14. ST. 16

- 6.94 [AU-S-9.32.2]Identification of any document should be made according to WIPO standard ST. 14 [XR]. The method is in accordance with Administrative Instruction 503 [XR].
- Relevant claim numbers
- 6.95 [AU-S-9.32.3] For "X" and "Y" citations the relevant claims to which the category applies are given as prescribed in Administrative Instruction 508 [XR].
- 6.96 For "A" citations it is not necessary to indicate the relevant claims unless there is good reason to do so; for example where there is a clear lack of unity a priori and the citation is relevant only to a particular claim or group of claims or when the claims meet the criteria of novelty, inventive step, and industrial applicability under Article 33(2)-(4) [XR] and the "A" category citations represent the most relevant prior art.
- 6.97 [AU-S-9.33] The box on the second sheet of form PCT/ISA/210 entitled 'Further documents listed are in the continuation of Box C." should be crossed if more documents are cited than will fit in the space provided in Box C and therefore a supplementary sheet is used.
- 6.98 [AU-S-9.34] The box on the second sheet of form PCT/ISA/210 entitled "See patent family annex." should be crossed if a family member listing is included with the report.
- 6.99 The search report is published with the specification and distributed worldwide. To enable any reader in any country to consider the citation in the most convenient document/language, the known family members of each citation are listed in the patent family annex sheet of the international search report (Refer to Annex C) [XR].
- (a) INPADOC does not provide family listings for documents published prior to 1968.
- (b) If INPADOC indicates there are no family members for a cited document then indicate this by entering the word "NONE" where the family members would appear. This

indicates to the applicant that a search for family members has been carried out and there was a nil result.

- (c) If INPADOC indicates that none of the citations has a family member the "See patent family annex" box should still be crossed and the practice indicated in the paragraph (b) above should be followed for all citations.
- Authentication and dates

Article 19 Rule 43.1, 43.2, 46.1

6.100 [S-X-7.1] International Searching Authority. The identification of the International Searching Authority which established the international search report and the date on which the report was drawn up should be indicated in the search report. This date should be that of the drafting of the report by the examiner who carried out the search. In addition to the date of actual completion, that is, the date on which the report was drawn up, of the international search, the international search report shall also indicate the date on which it was mailed to the applicant, which is important for the computation of the time limit for filing amendments to the claims under Article 19 [XR].

Rule 43.8 Section 514

- 6.101 [AU-S-9.11, replacing X-7.2] Where the examiner is an authorized officer his or her name will appear on the search report. Where the examiner is not an authorized officer the name of the responsible examiner who will be supervising the report should be entered as the authorized officer.
- 6.102 Where the examiner is an authorized officer then the date of actual completion will be the date of completion of the search report and he or she will so enter it on the search report.
- 6.103 Where the examiner is not an authorized officer, the "date of completion" should be entered after the responsible officer has supervised the report and corrections, if any, have been made.
- 6.104 The report should be mailed within 3 months of receipt of the search copy or within 9 months from the priority date, whichever is later.
- 6.105 In cases where it may not be obvious to an applicant why a later search report differs from an earlier search report referred to in Box VII of the request of the later application, it may be appropriate for an explanatory letter to accompany the search report. Such a letter could anticipate possible complaints by stating for example that new citations were reported because they were found in an updated search, or that the claims searched in the later application were of a different scope than the earlier search statement, or the like.
- Date of mailing of search report
- 6.106[AU-S-9.37] The actual date of mailing is indicated in this box on the form PCT/ISA/210.

Copies of references cited in the international search report

Rule 44.3

6.107 [S-X-9.1] Copies of references cited. The International Searching Authority should preferably attach copies of all references cited to the copy of the international search report which is sent to the applicant. However, the preparation of such copies may be the subject of a separate request and payment of a separate fee for copies may be required. For the invitation for payment of fees Form PCT/ISA/221 may be used.

Article 20(3) Rule 44.3

6.108 [S-X-9.2] Later request for copies of references cited. The International Searching Authority or an agency responsible to it must send, upon request, copies of all references cited in the international search report to the designated Office or the applicant. Such a request may be presented any time during seven years from the international filing date under the conditions laid down in Rule 44.3 [XR]. Copies of the references cited may be transmitted with Form PCT/ISA/211.

[Reissued Search Reports

- 6.109 [AU-S-10.1] It may happen occasionally, that after completion of an international report, the ISA discovers further relevant documents. Such situations may result for example from:
- (i) the discovery that the full international search has not been done thus requiring a further search;
- (ii) an (international) search in a later related application which provides documents relevant to the original search;
 - (iii) notification by a third party of the existence of a relevant document.
- 6.110 [AU-S-10.2] The person discovering the need for a search in paragraph 10.1a) or the existence of relevant documents in paragraph 10.1b) must immediately retrieve the search copy file and, if he is not the examiner who conducted the search, inform the examiner who conducted the search, if available, or, if not, a suitable substitute, of the situation.
- 6.111 [AU-S-10.3] If there is a need for a further search as in paragraph 10.1a), then the examiner who conducted the search or substitute examiner determines (in consultation with other examiners if need be) the appropriate search strategy and proceeds according to the procedure in a normal international search.
- 6.112 [AU-S-10.4] If a later application provides relevant documents then the examiner prepares a copy of the later (international) search report or prepares a separate search report comprising the relevant citations of the later (international) search report depending on whether it is wholly or partly relevant.
- 6.113 [AU-S-10.5] After the task in paragraph 10.3 or 10.4 is completed, the examiner estimates if the reissued report will arrive at the IB at least two weeks before normal publication of the original international application. If yes, then the reissued search report is treated in the same way as a normal search report. If no, then a reissued report may be issued

by the International Searching Authority any time up to entry into the National Phase, less a publication lead time.

6.114 [AU-S-10.6] The reissued international search report is to be clearly labeled as "reissued".]

CHAPTER 7 CLASSIFICATION OF INTERNATIONAL APPLICATIONS

Definition

Rule 43.3

7.01 [S-V-1.1] Classification involves the assigning of one or more classification symbols to a particular international application, whereby the technical subject of the invention of that application is identified. Every international application must be classified by the International Searching Authority according to the International Patent Classification system (IPC), and this Chapter deals only with such classification.

Definitive classification of the international application

- 7.02 [S-V-2.1, start] The classification of the international application will be determined by the International Search Authority. Classification symbols and/or indexing codes must be applied to each application according to the current rules of the IPC as defined in Volume II, Part 5 of the WIPO Handbook on Industrial Property Information and Documentation.
- Multiple Classifications
- 7.03 [S-V-2.2] If the international application requires classification in more than one subclass, or more than one main ("00") group within a subclass, then all such classifications should be assigned.
- Classification of Disclosure as Filed
- 7.04 [S-V-2.3] The classification should be determined without taking into consideration the probable content of the international application after any amendment, since this classification should relate to the disclosure in the published international application, that is, the application *as filed*. If, however, the examiner's understanding of the invention, or of the content of the application *as filed*, alters significantly as a result of the search (for example, as a result of prior art found, or because of the clarification of apparent obscurities), the classification should be amended accordingly.

Amended classification in the case of later published international search report

7.05 [S-V-3.1] In case the international search report is not available in time for publication with the international application, and therefore is published separately, and the examiner finds it necessary to amend the original classification for the reasons given in paragraph 7.05, he should include the amended classification in the international search report, indicating, by adding the word "amended," that it replaces the one published on the international application. Such amendment of the classification should not be made unless the examiner is quite certain that it is necessary.

Classification when scope is obscure

7.06 [S-V-4.1] When the scope of the invention is not clear, the classification will have to be based on what appears to be the invention insofar as this can be understood. It may then be necessary to amend the classification, at a later stage, if obscurities are removed by the search, as discussed in paragraph 7.05.

Lack of unity of invention

7.07 [S-V-5.1] All claimed inventions must be fully classified, whether or not there is lack of unity of invention, since all will be disclosed in the published international application. Each invention claimed is to be classified as set out in paragraphs 7.04 to 7.07.

Classification of international applications excluded from international search

7.08 [S-V-6.1] If the International Searching Authority finds that the international application relates to a subject matter which it is not required to search or that a meaningful search cannot be carried out (see Chapter 20), the classification shall nevertheless be made, to the extent possible, and communicated to the International Bureau for the purposes of publication of the international application.

CHAPTER 8 ERRORS AND DEFICIENCIES CHECKED AT THE SEARCH STAGE

Introduction

8.01 The International Searching Authority checks for certain for certain errors and deficiencies and proceeds as specified below.

Abstract and the Title of the Invention

Abstract

Article 3(2) and (3)

- 8.02 [S-XI-1] The international application must contain an abstract. The purpose of the abstract is to give brief technical information about the disclosure as contained in the description, the claims and any drawings.
- Definitive contents of the abstract

Rule 38.2(a)

- 8.03 [S-XI-2] The examiner has the task of determining the definitive contents of the abstract which is initially supplied by the applicant, and which will subsequently be published with the international application or later. In doing this, he should consider the abstract in relation to the application as filed (see paragraph IV–1.4). If the international search report is published later than the international application, the abstract published with the application will be as filed, subject to the results of the examination referred to in paragraph IV–1.6, and the definitive abstract will be published together with the search report.
- Abstract not for interpreting the scope of the protection

Article 3(3)

Rule 8.3, 38.2(a)

8.04 [S-XI-3] In determining the definitive contents of the abstract, or establishing the text of the abstract anew, where it is missing, the examiner should take into consideration the fact that the abstract is merely for use as technical information and, in particular, must not be used for the purpose of interpreting the scope of the protection sought. The abstract should be so drafted that it constitutes an efficient instrument for the purpose of assisting the scientist, engineer or researcher in searching in the particular technical field and should in particular make it possible to assess whether there is need for consulting the international application itself.

Abstract

Rule 8

8.05 [S-XI-4] The abstract must meet the requirements of Rule 8 (see the *PCT Applicant's Guide*, Volume I/A, Chapter V).

Abstract comments

Rule 8, 38.2(b)

8.06 [S-XI-5] The examiner should consider not only the text of the abstract but also the selection of the figures for publication with it. He should alter the text to the extent that this may be necessary in order to meet the requirements set out in Rule 8. It is important that the abstract be as concise as the disclosure permits and that it should not exceed 150 words if it is in English or when translated into English. The examiner shall select a different figure, or figures, of the drawings if he considers that they better characterize the invention or decide that no figure should accompany the abstract and note it in the international search report. In determining the content of the abstract, the examiner should concentrate on conciseness and clarity, and refrain from introducing alterations merely for the purpose of embellishing the language. The applicant has the opportunity, within one month from the date of mailing of the international search report, to submit comments on the abstract established by the examiner. Upon receipt of such comments, the examiner will decide if any changes should be made to the abstract. Whenever the abstract is amended by the examiner as compared with its contents established in the international search report, the International Searching Authority will notify the International Bureau of the final content of the abstract. If the International Searching Authority finds that no figure of the drawings is useful for the understanding of the abstract, it shall notify the International Bureau accordingly.

- Title

Rule 4.3, 37.2, 44.2

- 8.07 [S-XI-6]The examiner will be required to approve or establish the title of the invention. The cases in which he will be required to establish the title will be:
- (i) where the international application does not contain a title and the International Searching Authority has not received a notification from the receiving Office to the effect that the applicant has been invited to furnish a title; or
- (ii) where the examiner finds that the title does not comply with the requirements set out in Rule 4.3 (see also paragraph IV–1.4).

Sequence Listings

Rules 5.2, 13 ter.1; AI Section 208, Part 8, Annex C

8.08 [S-II-13]Where the international application contains disclosure of one or more nucleotide and/or amino acid sequences, the description shall contain a sequence listing complying with the standard provided for in Annex C of the Administrative Instructions. The sequence listing may be in written form and computer readable form, both forms complying with the standard provided for in Annex C. Instead of in written form, the sequence listing may be filed on an electronic medium under the provisions of Section 801 of the Administrative Instructions, where the receiving Office in which the international application was filed accepts sequence listings filed on an electronic medium. The International Searching Authority carries out the international search on the basis of those forms of the listing.

8.09 [S-II-14]Where the international application contains disclosure of one or more nucleotide and/or amino acid sequences but does not contain the corresponding sequence listing in written form and/or in computer readable form complying with the above standard, the International Searching Authority may invite the applicant (with Form PCT/ISA/225) to

furnish to it, within a time limit fixed in the invitation, a sequence listing in written form and/or, if required by the International Searching Authority, in computer readable form, as the case may be, complying with the standard. If the applicant complies with the invitation, the procedure outlined in the preceding paragraph applies. If the applicant does not comply with the invitation within the time limit or if the response to the invitation does not comply with the standard, the International Searching Authority is not required to carry out the international search to the extent that such non-compliance has the result that a meaningful search cannot be carried out (see Chapter XR: Exclusions from the International Search).

Rule 5.2(b), 13 ter.1(d) Section 513, AI Annex C

8.10 [S-II-15]Where the sequence listing part of the description contains free text as defined in the standard provided for in Annex C of the Administrative Instructions, but that free text does not also appear in the main part of the description in the language thereof, the International Searching Authority should invite the applicant (with Form PCT/ISA/233) to file the required correction. If the applicant complies with the invitation, the International Searching Authority marks the replacement sheet with the words "SUBSTITUTE SHEET (RULE 13ter.1(d))" or their equivalent in the language of publication of the international application and the date of receipt, and transmits the substitute sheets containing that free text to the receiving Office and the International Bureau for inclusion of the sheets concerned in the home copy and the record copy, respectively; it keeps a copy of those sheets for inclusion in the search copy. If the applicant does not comply with the invitation, the International Searching Authority must nevertheless continue to perform the international search.

PART 3 – THE INTERNATIONAL PRELIMINARY EXAMINATION STAGE

CHAPTER 9 PRELIMINARY PROCEDURE ON RECEIPT OF THE DEMAND

Receipt of the demand

Article 31(6)(a)

9.01 The International Preliminary Examining Authority receives the demand for international preliminary examination normally directly from the applicant. Alternatively the International Preliminary Examining Authority may receive the demand from the International Bureau, a Receiving Office, an International Searching Authority or a non-competent International Preliminary Examining Authority under Rule 59.3.

Determination of competent International Preliminary Examining Authority and marking of the demand

Article 31(6)(a), 32, Rule 59.3

9.02 Where the demand is filed with an International Preliminary Examining Authority, it checks the demand to establish whether or not it is a competent Authority to receive the demand according to the agreement established between the Authority and the International Bureau. If the determination is positive, the International Preliminary Examining Authority proceeds with the review of the demand as set forth in paragraph [XR] *et seq.* If the determination is negative, the non-competent International Preliminary Examining Authority indelibly marks the date of actual receipt of the demand in the space provided on the last sheet of the demand and transmits the demand, together with any accompanying documents or items, to the International Bureau for further handling and notifies the applicant of that fact. Form PCT/IPEA/436 is used for this purpose. Where the demand form or a computer print-out used by the applicant is not in conformance with Section 102(h) or (i), the procedure for correcting defects under paragraphs [XR] *et seq* applies. Where the demand is filed with a receiving Office or an International Searching Authority, the Office or Authority follows the same procedure.

Rule 59.3(a), (c) and (f)

9.03 The non-competent International Preliminary Examining Authority may, instead, choose to transmit the demand directly to the competent International Preliminary Examining Authority. In such a case, if only one International Preliminary Examining Authority is competent, it transmits the demand to that Authority and notifies the applicant accordingly, using Form PCT/IPEA/436. If two or more International Preliminary Examining Authorities are competent, it must first invite the applicant to indicate, within the time limit applicable under Rule 54bis.1(a), that is, 3 months from the date of transmittal of the international search report and the written opinion, or the declaration referred to in Article 17(2)(a), or 15 days from the date of the invitation, whichever is later, to which one of those Authorities the demand should be transmitted (using Form PCT/IPEA/442). If the applicant responds to the invitation, the non-competent International Preliminary Examining Authority promptly transmits the demand to the competent Authority specified by the applicant and notifies the applicant accordingly. If the applicant does not respond, or responds after the expiration of the time limit, the non-competent International Preliminary Examining Authority declares that the demand is considered as if it had not been submitted and notifies the applicant accordingly, using Form PCT/IPEA/407. If the demand is filed directed with the International Bureau, it follows the same procedure specified above for the non-competent International Preliminary Examining Authority.

9.04 [E-VII-2.3]In all the situations outlined in paragraphs [XR], the non-competent International Preliminary Examining Authority, receiving Office, International Searching Authority or International Bureau refunds to the applicant any fees paid to it.

Rule 59.3(e)

9.05 [E-VII-2.4]If the International Preliminary Examining Authority receives the demand transmitted to it, under Rule 59.3, by a receiving Office, an International Searching Authority, the International Bureau or another International Preliminary Examining Authority which is not competent for the international preliminary examination of the international application, the competent International Preliminary Examining Authority considers that the demand was received on its behalf by the Office, Bureau or Authority transmitting on the date marked as the "actual date of receipt" on the last sheet of the demand.

Identification of the International Application

Rule 53.6, 60.1(b)

9.06 The International Preliminary Examining Authority checks whether the international application to which the demand relates can be identified, by checking the name and address of the applicant, title of the invention, international filing date and international application number. If the determination is negative, the International Preliminary Examining Authority promptly invites the applicant to submit corrections using Form PCT/IPEA/404. If the corrections are submitted within the time limit fixed in the invitation, the date of receipt of the corrections shall be marked on the last sheet of the demand. The demand shall be considered as it had been received on the date on which the International Preliminary Examining Authority receives the corrections. The Authority stamps the date of receipt of the correction on the first sheet of the demand.

Applicant's entitlement to file a demand

Article 31(2), Rule 54

9.07 The International Preliminary Examining Authority checks whether the applicant is entitled to file the demand. An applicant is entitled to file a demand if he is a resident or national of a Contracting State bound by Chapter II of the Treaty and if the international application was filed with a receiving Office of, or acting for, a Contracting State bound by Chapter II of the Treaty.

Article 31(2), Rule 54.2, 54.4, Section 614

9.08 If there are two or more applicants, it is sufficient if at least one of the applicants making the demand is a national or resident of a Contracting State bound by Chapter II of the Treaty, irrespective of the elected States for which that applicant is indicated (see also paragraph 9.32). If none of the applicants has the right to make a demand under Rule 54.2, the demand shall be considered by the International Preliminary Examining Authority as not having been submitted (Form PCT/IPEA/407). In addition, if there is little time remaining prior to the expiration of 19 months from the priority date, the applicant should be promptly informed, for example, by telephone or facsimile machine

9.09 The international application must have been filed with the receiving Office of a Contracting State bound by Chapter II, or acting for such a State. Where the receiving Office acts for two or more Contracting States, at least one of the applicants who filed the international application and the demand must be a resident or national of a Contracting State bound by Chapter II for which the receiving Office acts.

- Change in person of the applicant
- 9.10 Where a change in the person of the applicant has been recorded by the International Bureau under Rule 92*bis* and has resulted in the fact that the international application is in the name of a new applicant or new applicants, the International Preliminary Examining Authority must check that that or those applicants, where they are indicated in the demand, are entitled to make that demand.

Election of States

Article 37; Rule 53.7

9.11 The filing of a demand constitutes the election of all Contracting States which are designated and are bound by Chapter II of the Treaty.

Check of particulars affecting the date of receipt

Rule 53.1(a), 60.1(a), 61.1(a), Section 102(h) and (i)

- 9.12 Where, after checking of particulars affecting the date of receipt under paragraphs [XR], a positive determination is made, the actual filing date is marked as date of receipt in the space provided on the first sheet of the demand. Where the demand form or a computer print-out in conformance with Section 102(h) or (i) was not used by the applicant, the procedure for correcting defects under paragraphs [XR] *et seq* applies.
- 9.13 The International Preliminary Examining Authority notifies the applicant of the receipt of the demand (PCT/IPEA/402).

Checking whether demand is timely filed

Rule 54bis

9.14 The International Preliminary Examining Authority checks to see that the demand is filed within three months from the date of transmittal of the international search report and the written opinion established under Rule 43bis.1, or of the declaration referred to in Article 17(2)(a); or 22 months from the priority date, whichever expires later. If the finding is negative, the International Preliminary Examining Authority considers the demand as having not been submitted and issues a declaration to that effect by sending a copy of Form PCT/IPEA/407 to the applicant and the International Bureau. If the demand is timely filed, the International Preliminary Examining Authority notifies applicant accordingly (Form PCT/IPEA/402).

Article 39(1)(a),Section 601

9.15 In the event that the national law of any designated State continues to be incompatible with the modification of the time limit for national phase entry under Article 22(1) and such State is designated, the International Preliminary Examining Authority promptly checks whether the demand is received within 19 months from the priority date. In case the determination is negative, the International Preliminary Examining Authority promptly notifies the applicant of the date of actual receipt When the demand is received after 19 months from the priority date, the International Preliminary Examining Authority marks the appropriate check box on the last page of the demand and notifies the applicant and the International Bureau accordingly (Form PCT/IPEA/402).

Establishing the International Preliminary Examining Authority file

9.16 The International Preliminary Examining Authority, promptly upon receipt of the demand, establishes the file.

Section 605

9.17 Where the International Preliminary Examining Authority is part of the same national Office or intergovernmental organization as the International Searching Authority, the same file shall serve the purposes of international search and international preliminary examination.

Rule 62

- 9.18 Where the International Preliminary Examining Authority is not part of the same national Office or intergovernmental organization as the International Searching Authority or receiving Office in which the application was filed, the International Bureau will provide a copy of the international application or, where already published, a copy of the pamphlet (of the published international application), together with a copy of the international search report, when available, to the International Preliminary Examining Authority upon request. This is necessary in order for that Authority to process the demand (see paragraphs [XR]). If the international search report is not yet available, the International Bureau will send a copy of it promptly upon receipt thereof. The documents cited in the international search report can be collected from the International Preliminary Examining Authority's own search files or ordered from the International Searching Authority. Upon receipt of the demand or a copy thereof, the International Bureau will promptly transmit to that Authority, a copy of the written opinion established by the International Searching Authority.
- 9.19 A copy of any amendments under Article 19 and of any accompanying statement will be supplied by the International Bureau to the International Preliminary Examining Authority unless a copy has been submitted with the demand by the applicant or the applicant has reversed them (see paragraphs [XR]).

Transmittal of the demand to the International Bureau

Rule 61.1, 90bis.4(a)

9.20 The International Preliminary Examining Authority either transmits the original demand and keeps a copy in its files or sends a copy (preferably by facsimile transmission) to the International Bureau and keeps the demand in its files. Where the applicant did not respond to an invitation (Form PCT/IPEA/442) to indicate the competent Authority to which the demand was to be transmitted and where the demand has been withdrawn by the applicant or considered by the International Preliminary Examining Authority as not having been submitted (Form PCT/IPEA/415). Where a demand has been transmitted to the competent International Preliminary Examining Authority under Rule 59.3, it is the Authority which is competent to receive the demand which proceeds under this paragraph (see paragraphs [XR]).

Rule 61.1(a)

9.21 The transmittal must be effected promptly after receipt of the demand, generally not later one month after receipt.

Rule 90.4, 90.5, Section 608

9.22 The International Preliminary Examining Authority sends to the International Bureau, together with the original demand, or copy thereof, any separate power of attorney in original or any copy of a general power of attorney.

Article 34

9.23 The International Preliminary Examining Authority does not transmit with the demand to the International Bureau any amendments to the application under Article 34 or copies of amendments under Article 19.

Certain defects in the demand

Article 31 (3), Rule 53, 55, 60

9.24 The International Preliminary Examining Authority checks the demand for the existence of any of the following defects (Form PCT/IPEA/404):

Article 31(3), Rule 53.2(b), 53.8, 60.1(a-ter)

(i) the demand is not signed as provided in the Regulations (see paragraph [XR]);

Article 31(3), Rule 4.4, 4.5, 4.16, 53.2(a)(ii), 53)4, 60.1(a-bis)

(ii) the demand does not contain the prescribed indications concerning the applicant (see paragraph [XR]),

Article 31(3), Rule 53.2(a)(iii), 53.6

(iii) the demand does not contain the prescribed indications concerning the international application (see paragraph [XR]),

Rule 4.4, 4.7, 4.16, 53.2(a)(ii), 53.5

(iv) the demand does not contain the prescribed indications concerning the agent (see paragraph [XR]);

Rule 53.2(a)(i), 53.3

(v) the demand does not contain a petition to the effect that the applicant requests that the international application be the subject of international preliminary examination under the PCT; Rule 53.3 indicates preferred words, but these are not essential. The petition is part of the printed demand form (Form PCT/IPEA/401) and must also be contained in a demand presented as a computer printout;

Rule 55.1

(vi) the demand is not in the language of publication of the international application.

Language

Rule 23.1(b), 55.2

9.25 Where neither the language in which the international application is filed nor the language in which the international application is published is accepted by the International Preliminary Examining Authority, the applicant must furnish with the demand a translation of the international application into a language in which the international preliminary examination may be carried out, that is, a language which is both a language accepted by that Authority and a language of publication. Where a translation into such a language has already been furnished to the International Searching Authority under Rule 23.1(b) and the International Preliminary Examining Authority is part of the same national Office or intergovernmental organization as the International Searching Authority, the international preliminary examination is carried out on the basis of that translation, unless the applicant furnishes a translation to the International Preliminary Examining Authority as outlined above.

- 9.26 For corrections of certain defects in the demand, *ex officio* or upon invitation, see paragraphs [XR] (ex-officio corrections), [XR] (indications concerning the applicant) and [XR] (invitation to correct defects).
- 9.27 Many kinds of errors in the demand can be corrected by the International Preliminary Examining Authority *ex officio*, which means that the applicant need not and is not formally invited to make the correction himself. Where a correction is made *ex officio*, the International Preliminary Examining Authority makes the correction and enters in the margin the letters "IPEA." Where any matter is to be deleted, the International Preliminary Examining Authority encloses such matter within square brackets and draws a line between the square brackets, while still leaving the deleted matter legible. The International Preliminary Examining Authority informs the applicant of the correction made by sending him either a copy of the corrected sheet of the demand or by a separate notification (there is no special form, but Form PCT/IPEA/424, which is for use where no other form is applicable, could be used). Errors which may be corrected *ex officio* include, in particular, indications concerning the applicant and the agent designated in the demand. If the error is corrected by the International Preliminary Examining Authority after the original demand has been transmitted to the International Bureau, the International Preliminary Examining Authority notifies the International Bureau by sending it a copy of the corrected sheet of the demand.

Signature

Rule 4.15(b), 53.2(b), 53.8, 60.1(a-ter)

- 9.28 The applicant must either sign the demand or submit a separate power of attorney or submit a copy of a signed general power of attorney, appointing an agent for the filing of the demand. If there are two or more applicants, it is sufficient that the demand be signed by one of them. Where two or more applicants file a demand which elects the United States of America and where an applicant for the United States of America who is an inventor refuses to sign the demand or could not be found or reached after diligent effort, the demand need not be signed by that applicant ("the applicant concerned") if it is signed by at least one applicant and either:
- (i) a statement is furnished explaining, to the satisfaction of the International Preliminary Examining Authority, the lack of signature of the applicant concerned; or
- (ii) the applicant concerned did not sign the request but the requirements of Rule 4.15(b) were complied with.

Rule 90.3

9.29 Where the agent signs the demand and a power of attorney has been filed earlier with the receiving Office or the International Bureau or where the agent has been appointed in the request, no power of attorney need be submitted by the applicant to the International Preliminary Examining Authority must therefore check, when the demand is signed by the agent, whether he is entitled to sign. Where the International Preliminary Examining Authority is not the same Office as the receiving Office or the International Searching Authority, the International Preliminary Examining Authority may, until it is notified of or has reason to believe the contrary, assume that an agent who is indicated in the pamphlet of the international application and in the PCT Gazette has been duly appointed by the applicant. If the International Preliminary Examining Authority is the same office as the receiving Office or the International Searching Authority, its files will normally include information as to the appointment of the agent.

Rule 90.1(c) and (d), 90.3(b), 90.4

9.30 The appointment of an additional or sub-agent for the procedure before the International Preliminary Examining Authority can be made in the demand or through a separate or general power of attorney. If the appointment is made in the demand which is signed by the applicant, no separate power of attorney need be submitted. If the demand is signed by an earlier appointed agent, no separate power of attorney from the applicant need be filed if the earlier appointed agent has the right to appoint sub-agents. Authorization to appoint may be assumed unless the power of attorney excludes appointing sub-agents. If a demand is signed by the additional agent, a separate power of attorney signed by the applicant, or his earlier appointed agent who has the right to appoint sub-agents, must be filed with the International Preliminary Examining Authority. If a separate power of attorney accompanies the demand or is later filed, the International Preliminary Examining Authority promptly transmits the original to the International Bureau. For the manner of inviting the correction of a missing signature, see paragraph [XR].

Rule 90.2(a) and (b), 90.3(c)

9.31 A common representative is entitled to sign the demand with effect for all applicants. The agent of the common representative may also sign with effect for all applicants.

Indications concerning the applicant

Rule 4.4, 4.5, 4.16, 53.2(a)(ii), 53.4, Section 115, 614

9.32 The demand must contain the prescribed indications concerning the applicant. The address must contain an indication of the country; the indication of the country by a letter code as part of the postal code is sufficient (for example, CH-1211 Geneva). Nationality and residence must be indicated by the name or the two-letter country codes of the State of nationality and State of residence; in case of a dependent territory (which is not a State), the name of the State on which the territory depends must be given as the indication of the residence. For the manner of indicating names of States, see Section 115.

Section 614

9.33 For the decision whether the applicant has the right to make a demand it is decisive that the applicant had the right at the time the demand was filed. Where the demand does not contain the corresponding indications, or where the applicant made mistakes by giving indications which are not the indications required to support the right to file the demand, the omission or wrong indication may be corrected by the applicant if the International Preliminary Examining Authority is satisfied that the applicant had the right to file a demand at the time the demand was received. In such a case, the demand is considered as having met the requirements under Article 31(2)(a) as of the date when the demand with the mistakes in the indications was filed.

Indications concerning the agent

Rule 4.4, 4.7, 4.16, 53.5, 90.1

9.34 If an agent is named or appointed, the International Preliminary Examining Authority checks whether the indications correspond to that contained in the file. If the International Preliminary Examining Authority does not have information about the appointment, it checks whether the agent has been indicated in the publication of the international application, on the pamphlet or in the PCT Gazette. In case of an appointment or naming of a new agent or an additional agent in the demand, the International Preliminary Examining Authority also checks whether the indications as to such an agent comply with Rules 4.4 and 4.16; Rule 4.7 applies *mutatis mutandis*.

Rule 90.1(c) and (d)

9.35 The International Preliminary Examining Authority may request the receiving Office, if necessary, to confirm that the agent has the right to practice before that Office (Form PCT/IPEA/410) if the agent does not have the right to practice before the International Preliminary Examining Authority.

Invitation to correct defects in the demand

Rule 53, 55, 60.1(a) and (b)

9.36 If the International Preliminary Examining Authority finds one or more defects referred to in Rule 60.1(a) and (b), it invites the applicant to correct the defects within one month from the date of the invitation (Form PCT/IPEA/404). The International Preliminary Examining Authority notifies the International Bureau by sending it a copy of the invitation. Where the defect consists of the lack of the signature and Rule 53.8(b) does not apply (see paragraph [XR]), the International Preliminary Examining Authority may include with the invitation to correct, a copy of the last sheet of the demand which the applicant returns after affixing thereto the prescribed signature.

Rule 60.1(c) and (d), Section 602(a)

- 9.37 Upon receipt of a letter containing a correction or accompanying a replacement sheet of the demand the International Preliminary Examining Authority marks on that letter and any accompanying sheets the date on which they were received. It verifies the identity of the contents of any replacement sheet of the demand with that of the replaced sheet. If the applicant complies with the invitation within the time limit, the demand is considered as if it had been received on the actual filing date provided that the demand as submitted permitted the international application to be identified. The International Preliminary Examining Authority marks (black ink should be used), in the upper right-hand corner of the replacement sheet, the international application number and the date on which the replacement sheet was received and, in the middle of the bottom margin, the words "AMENDED SHEET." It keeps in its files a copy of any letter and any replacement sheet. It transmits (Form PCT/IPEA/415), any replacement sheet of the demand and a copy of any letter to the International Bureau. The International Preliminary Examining Authority undertakes the actions referred to in this paragraph not only where the corrections submitted by the applicant are timely received and satisfactory, but also where they are not and, consequently, the demand is considered as if it had not been submitted.
- 9.38 If the International Preliminary Examining Authority receives a replacement sheet of a sheet of the demand embodying a correction of a defect referred to in Rule 60.1(a), which was submitted by the applicant on his own volition without having been invited to correct a defect, the International Preliminary Examining Authority proceeds as outlined in the preceding paragraph.

Rule 60.1(a)

9.39 The International Preliminary Examining Authority checks whether the defects referred to in Rule 60.1(a) have or have not been timely corrected. The one-month time limit for correction may be extended. If a correction of a defect is received after the expiration of the time limit for correction but before a decision is taken, the time limit for correction should be extended ex officio so that the said correction is considered as having been timely received.

Rule 60.1(b) and (c)

9.40 If the International Preliminary Examining Authority finds that any of the defects referred to in Rule 60.1(a), with the exception of those also referred to in Rule 60.1(d), have

not been corrected or have not been timely corrected (see the preceding paragraph), it declares that the demand is considered as if it had not been submitted and notifies the applicant and the International Bureau (Form PCT/IPEA/407). If the date of receipt of the demand is changed, the International Preliminary Examining Authority notifies the applicant and the International Bureau (Form PCT/IPEA/402).

Rule 60.1(*d*)

9.41 If the International Preliminary Examining Authority finds that any of the defects referred to in Rule 60.1(d) have not been corrected or have not been timely corrected, it notifies the applicant and the International Bureau (PCT/IPEA/439).

Payment and refund of fees

Rule 57, 58

9.42 The International Preliminary Examining Authority calculates the amounts of the prescribed preliminary examination fee and handling fee. It also determines whether the fees have been paid and it notifies the applicant of any underpayment or overpayment (Form PCT/IPEA/403).

Rule 57.2(a), 58.1(b)

9.43 The amount of the handling fee, which is collected for the benefit of the International Bureau, is as set out in the Schedule of Fees. The amount of the preliminary examination fee, if any, is fixed by the International Preliminary Examining Authority.

Rule 57.3, 58.1(b)

9.44 The handling fee and the preliminary examination fee are payable within one month from the date on which the demand was submitted or 22 months from the priority date, whichever expires later. Where the demand was transmitted to the International Preliminary Examining Authority under Rule 59.3, these fees are payable within one month from the date of actual receipt of the demand by that Authority or 22 months from the priority date, whichever expires later. Where the International Preliminary Examining Authority decides to start the international preliminary examination at the same time as the international search, that Authority will invite the applicant to pay the handling fee and the preliminary examination fee within one month from the date of the invitation. The amount payable is the amount applicable on that date of payment. If, before the date on which those fees are due, the International Preliminary Examining Authority finds that no fees have been paid to it or that the amount paid to it is insufficient to cover them, it may invite the applicant to pay to it any missing amount (using Form PCT/IPEA/403).

Rule 58bis.1(a) and (c), 58bis.2

9.45 Where, by the time the handling and preliminary examination fees are due, the International Preliminary Examining Authority finds that no fees were paid to it, or that the amount paid to it is insufficient to cover them, it invites the applicant to pay to it any missing amount, together with, where applicable, a late payment fee, as provided under Rule 58bis.2, within a time limit of one month from the date of the invitation (using Form PCT/IPEA/440). A copy of that invitation is sent to the International Bureau. However, if any payment is received by the International Preliminary Examining Authority before such invitation has been sent, that payment is considered to have been received before the expiration of the time limit referred to in paragraph [XR].

Rule 58bis.2

9.46 If a late payment fee is charged, its maximum amount is 50% of the amount of unpaid fees which is specified in the invitation, or, if the amount so calculated is less than the handling fee, an amount equal to the handling fee may be charged. The amount of the late payment fee must in no case exceed double the amount of the handling fee.

Rule 58bis.1(b) and (d)

9.47 Where the International Preliminary Examining Authority has sent an invitation under Rule 58bis.1(a) and the applicant has not, within the time limit of one month from the date of the invitation, paid in full the amount due, including, where applicable, the late payment fee, the International Preliminary Examining Authority declares that the demand is considered as if it had not been submitted, using Form PCT/IPEA/407. If the amount due is received before the demand is declared not to have been submitted, payment is considered to have been received before the expiration of the time limit referred to above and the International Preliminary Examining Authority does not declare that the demand is considered as if it had not been submitted.

Rule 54.4, 57.6

9.48 The International Preliminary Examining Authority refunds the handling fee to the applicant if the demand is either withdrawn before it has been sent to the International Bureau or considered not to have been submitted because none of the applicants has the right to make a demand.

Transfer of handling fees to the International Bureau

Rule 57

9.49 The International Preliminary Examining Authority should, each month, transfer the handling fees collected during the preceding month to the International Bureau. When making the transfer, the International Preliminary Examining Authority indicates the exact amounts transferred, broken down according to the international application numbers of the international applications concerned, as well as the names of the applicants.

Use of facsimile machine, telegraph, teleprinter, etc.

Rule 92.1(a), 92.4(d), (g) and (h)

9.50 The International Preliminary Examining Authority may agree to receive a document by facsimile machine, telegraph, teleprinter or other like means of communication resulting in the filing of a printed or written document. If required under Rule 92.4(d), it checks whether the original document is timely furnished in a form complying with the requirements of Rule 92.1(a) within 14 days after the document was transmitted. If the original document is timely received, or not required, the International Preliminary Examining Authority considers that the document was validly submitted on the date on which it was received by the means mentioned above. If a document is considered not to have been submitted, the International Preliminary Examining Authority notifies the applicant accordingly (Form PCT/IPEA/423).

Rule 92.4(e

9.51 Where the furnishing of the original of a document is required by the International Preliminary Examining Authority, but the original of a demand signed by the applicant or his agent is not received, within 14 days, an invitation is sent to the applicant inviting him to comply with the requirement within a time limit which must be reasonable (Form PCT/IPEA/434) (see paragraph [XR]).

Rule 92.1(b), 92.4(g)(ii)

9.52 If the applicant does not comply with the invitation within the time limit, the International Preliminary Examining Authority notifies the applicant that the demand is considered not to have been submitted (Form PCT/IPEA/438).

Irregularities in the mail service

Rule 82

9.53 For the applicable procedure in case of delay or loss in the mail or in case of interruption in the mail service, reference is made to Rule 82. Rule 82 applies also if a delivery service is used to the extent that the International Preliminary Examining Authority accepts evidence of the mailing of a document by a delivery service other than the postal authorities.

Computation of time limits

Rule 80

9.54 For details regarding the computation of time limits and dates of documents, reference is made to Rule 80.

Basis for international preliminary examination

- 9.55 Box No. IV of the demand form is divided into two parts. The first part provides for the statement concerning amendments. The second part provides for the indication of the language for the purposes of international preliminary examination. Details on both parts are given in the following paragraphs.
- Statement concerning amendments

Rule 53.9, 60.1(f)

9.56 The first part of Box No. IV of the demand form provides check boxes for the applicant to indicate the basis on which international preliminary examination should start. Where none of the boxes are marked or where the applicant has indicated that the international preliminary examination is to start on the basis of the international application as originally filed, the file is forwarded to the examiner as soon as all formal (including any required translation of the international application and/or of amendments, see paragraphs [XR]) and fee matters are resolved.

Article 34, Rule 60.1(g), 69.1(e), Section 602(a)(i) to (iii) and (b)

9.57 Where the international preliminary examination is to take into account amendments under Article 34, but the applicant failed to submit them with the demand, the International Preliminary Examining Authority shall invite the applicant (Form PCT/IPEA/431) within a reasonable time limit fixed in the invitation to submit the amendments. Whether the amendments are submitted with the demand or subsequently, they shall be marked in accordance with Section 602(a)(i) to (iii) and (b) before the file is then forwarded to the examiner.

Article 19, Rule 62.1, Section 602

9.58 Where the applicant has marked the appropriate check box in Box No. IV of the demand that amendments under Article 19 and any accompanying statement are to be taken into account, the International Preliminary Examining Authority indicates on the last sheet of the demand whether a copy of such amendments and any accompanying statement was actually submitted with the demand. Where no copy of the amendments under Article 19 was

submitted with the demand, the file will not be forwarded to the examiner until a copy of such amendment and any accompanying statement are received from the International Bureau. After the Bureau receives the demand, it will promptly transmit the copy of the amendments under Article 19 and any accompanying statement is submitted. The International Preliminary Examining Authority will mark the copy of the amendments submitted with the demand or received later, in accordance with Section 602(a)(i) to (iii) and (b) before the file is forwarded to the examiner. If no amendments under Article 19 have been made at the time when the demand is received by the International Bureau, the International Preliminary Examining Authority is so informed by the International Bureau.

Article 19, Rule 53.9(a)(ii)

9.59 If the applicant indicates that any amendments under Article 19 are to be disregarded, the International Preliminary Examining Authority treats any such amendments as cancelled and marks the relevant sheets of amendments accordingly.

Article 19, Rule 46.1, 53.9(b), 69.1(d)

- 9.60 If the demand includes a statement that the start of the international preliminary examination is to be postponed under Rule 53.9(b) because the time limit for filing amendments under Article 19, as provided in Rule 46.1, has not expired, the International Preliminary Examining Authority waits until it receives a copy of any amendments made under Article 19 or a notice from the applicant that he does not wish to make amendments under Article 19. Where neither a copy of the amendments nor a notice has reached the International Preliminary Examining Authority by the expiration of 22 months from the priority date or three months from the date of transmittal of the International Search Report, whichever expires later, examination shall start on the basis of the documents in the file.
- Language for the purposes of international preliminary examination

Rule 55.2

9.61 The second part of Box No. IV of the demand form provides for the indication (on the dotted line) of the language in which international preliminary examination is to be carried out; it also provides check-boxes to be marked depending on what that language is. That language will be:

Rule 55.2(a)

(i) the language in which the international application was filed (that will be the case in most instances);

Rule 55.2(b)

(ii) the language of a translation furnished for the purposes of the international search (in a case where the language in which the international application was filed is not a language in which the international search is to be carried out);

Rule 48.3(b), 55.2(b)

(iii) the language in which the international application was published (in a case where the language in which the international application was filed and the language in which the international search was carried out is not a language of publication;

Rule 55.2(a) and (b)

(iv) the language of a translation furnished for the purposes of international preliminary examination, provided that that language is a language accepted by the Authority and a language of publication (in a case where neither the language of a translation furnished

for the purposes of international search nor the language of publication are languages accepted for the purposes of international preliminary examination).

9.62 Where none of the check-boxes is marked, the file is forwarded to the examiner as soon as it is determined what is the language in which international preliminary examination will be carried out (and when any required translation of the international application and/or of amendment) has been furnished) and when all other formal and fee matters are resolved.

Rule 55.2(c), 55.3(b)

9.63 Where the international preliminary examination is to be carried out on the basis of a translation of the international application and/or of amendments, but the applicant failed to submit them with the demand, the International Preliminary Examining Authority invites the applicant (Form PCT/IPEA/443) to submit the amendments within a reasonable time limit fixed in the invitation. Whether the sheets containing the translation are submitted with the demand or subsequently, they shall be marked in accordance with Section 602(a)(i) to (iii) and (b) before the file is then forwarded to the examiner.

Documents, etc., for the International Preliminary Examining Authority

- 9.64 The examiner will, where the International Preliminary Examining Authority is part of the same national Office, or intergovernmental organization as the International Searching Authority, have in the file in addition to the demand (see paragraph 10.07.), the request, description, drawings (if any), the claims, as originally filed and the abstract as originally filed or established by the International Searching Authority, or, where necessary, their translation (see paragraph [XR]); any amendments proposed to date; a notification that no amendments have been filed or will be filed under Article 19; the international search report with the applicant's comments (if any), and copies of any cited documents; the written opinion of the International Searching Authority; correspondence concerning formalities from the receiving Office or the International Searching Authority and, depending upon the circumstances, the priority document as well as any required translations (see paragraphs [XR]).
- 9.65 Where a translation of the international application is required under Rule 55.2 and the International Searching Authority and the International Preliminary Examining Authority are part of the same national Office or intergovernmental organization, the international preliminary examination is carried out on the basis of any translation transmitted to the International Searching Authority under Rule 23.1(b) unless the applicant furnishes a further translation for the purposes of the international preliminary examination.
- 9.66 In the cases where the international search has been performed by an International Searching Authority which is not part of the same national Office or intergovernmental organization as the International Preliminary Examining Authority, the various elements of the file making up the international application will be supplied to the International Preliminary Examining Authority as follows:

Article 31(6)(a)

- (i) demand: by the applicant;
- (ii) request, description, drawings (if any), claims, and sequence listing filed under the provisions of Section 801, as originally filed: by the International Bureau;

Rule 43bis

(iii) the international search report and written opinion or declaration under Article 17(2)(a): by the International Bureau;

Rule 55.2

(iv) where neither the language in which the international application is filed nor the language in which the international application is published is accepted by the International Preliminary Examining Authority, a translation of the international application into a language which is both a language accepted by the International Preliminary Examining Authority and a language of publication: by the applicant (see, however, paragraph VI-4.l);

Rule 62

(v) amendments and statement under Article 19 (if any): where the applicant has marked the appropriate check box in Box No. IV of the demand (Form PCT/IPEA/401) that amendments under Article 19 are to be taken into account, the International Preliminary Examining Authority indicates on the last sheet of the demand whether a copy of such amendments was actually received with the demand. Where no copy of the amendments under Article 19 was received with the demand, a copy of such amendment will be transmitted by the International Bureau promptly after that Bureau receives the demand. If no amendments under Article 19 have been made at the time when the demand is received by the International Bureau, the International Preliminary Examining Authority is so informed by the International Bureau. If, at the time of filing such amendments, the demand has already been submitted, the applicant should also submit a copy of such amendments to the International Preliminary Examining Authority. In any event, the International Bureau will promptly transmit a copy of any amendments under Article 19 to the International Preliminary Examining Authority;

Rule 13ter.1, Section 208, Als, Annex C

(vi) nucleotide and/or amino acid sequence listing in written form and/or in computer readable form, both forms complying with the standard provided for in Annex C of the Administrative Instructions: where the International Searching Authority and the International Preliminary Examining Authority are part of the same national Office or intergovernmental organization, by the International Searching Authority; otherwise, by the applicant;

Rule 66.1

(vii) amendments according to Article 34(2)(b): by the applicant;

Article 16(3)(b)

(viii) copies of any documents cited in the international search report: by the International Bureau or by the International Searching Authority (depending upon agreement being reached with the competent International Searching Authority);

Rule 66.7(*a*)

(ix) priority document: by the international Bureau or by the applicant if the International Bureau has not received the priority document (subject to a request having been made);

Rule 66.7(b)

- (x) translation of the priority document where required: by the applicant (subject to an invitation to furnish the translation having been made, see paragraph [XR]).
- 9.67 The examiner should keep in mind that the documents making up the international application may contain the declaration referred to in Article 17(2)(a) instead of an

international search report and written opinion of the International Searching Authority, that is, the declaration of the International Searching Authority that it considers that the international application relates to a subject matter which it was not required to search and decided not to search, or that the description, the claims, or the drawings failed to comply with the prescribed requirements to such an extent that a meaningful search could not be carried out. In this case, the examiner should appraise the declaration as if it were the international search report.

Language of the international application and of the demand

Rule 55

- 9.68 The demand submitted to the International Preliminary Examining Authority must be in the language of the international application or, if the international application has been filed in a language other than the language in which it is published, in the language of publication or, if a translation of the international application is required under Rule 55.2, in the language of that translation.
- 9.69 If the international preliminary examination is carried out on a translation of the original application into a language of publication, or on a translation under Rule 55.2, it may be difficult to determine whether any amendments filed under Article 34(2)(b) extend the content of the international application as filed. See paragraph [XR] for procedure in such a case.
- Priority document and translation thereof

Rule 66.7(a) and (b)

- 9.70 Where the international application claims the priority of a previous application and the examiner needs the priority document, the examiner should request the International Bureau to furnish promptly a copy of the priority document or, where a certified copy of the earlier application has not yet been received by the International Bureau under Rule 17.1(a), the examiner may request the applicant himself to furnish a copy of said certified copy. When the priority document is not in the language or in one of the languages of the International Preliminary Examining Authority, the examiner may invite the applicant to furnish a translation of the priority document (see paragraph [XR]). If the examiner finds that the requested priority document or (where required) the translation have not been timely furnished, he may establish the international preliminary examination report as if the priority has not been claimed in the international application and indicate this in the report.
- Nucleotide and/or amino acid sequence listings

Rule 13ter.1(a), (c) and (e), Section 208 and AI Part 8, Annex C

9.71 Where the international application contains disclosure of one or more nucleotide and/or amino acid sequences and a corresponding sequence listing in written form and in computer readable form—both forms complying with the standard provided for in Annex C of the Administrative Instructions—the International Preliminary Examining Authority carries out the international preliminary examination on the basis of those listings. Instead of a written form, the sequence listing may be provided on an electronic medium under the provisions of Section 801 (see paragraph [XR]).

Rule 13ter.1(a), (c) and (e), Section 208, Annex C

9.74 Where the international application contains disclosure of one or more nucleotide and/or amino acid sequences but does not contain a corresponding sequence listing in written form and/or in computer readable form complying with the standard provided for in Annex C of the

Administrative Instructions, the International Preliminary Examining Authority may invite the applicant (with Form PCT/IPEA/441) to furnish to it, within a time limit fixed in the invitation, a sequence listing in written form and/or computer readable form, as the case may be, complying with the standard. If the applicant complies with the invitation, the procedure outlined in the preceding paragraph applies. If the applicant does not comply with the invitation within the time limit or the response to the invitation is defect, the International Preliminary Examining Authority is not required to carry out the international preliminary examination to the extent that such non-compliance has the result that a meaningful examination cannot be carried out (see paragraph [XR]).

CHAPTER 10 EXAMINATION PROCEDURE BEFORE THE INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

General

Article 33(1), (2), (3) and (4)

10.01 [E-IV-1.1] The objective of international preliminary examination of an international application is to formulate a preliminary and non-binding opinion as to:

- (i) whether the claimed invention appears to be "novel," Chapter 15 [XR]
- (ii) whether the claimed invention appears to involve "inventive step" (non-obviousness), Chapter 16 [XR] and
- (iii) whether the claimed invention appears to be "industrially applicable." Chapter 17 [XR].

Article 33(5)

10.02 [E-IV-1.2] Although these criteria serve as the basis for international preliminary examination, any Contracting State may apply additional or different criteria for the purposes of deciding whether or not, in that State, the claimed invention will be protected (that is, by a patent, an inventor's certificate, a utility certificate or a utility model).

10.03 [E-IV-1.2a] In addition to these basic three criteria, the examiner should be aware of the following two criteria that are implicitly contained in the Treaty and the Regulations:

- (i) the invention must be such that it can be carried out by a person skilled in the art (after proper instruction by the application); this follows from Article 5. see paragraph 13.44 et seq[XR];
- (ii) the invention must [be of "technical character" to the extent that it must] relate to a technical field (Rule 5.1(a)(i)), must be concerned with a technical problem (Rule 5.1(a)(iii)) and must have technical features in terms of which the subject matter for which protection is sought can be defined in the claim (Rule 6.3(a)) (see paragraph 13.04 [XR]).

Rule 5.1 (a)(iii)

10.04 [E-IV-1.3] The PCT does not require explicitly or implicitly that a claimed invention must entail some technical progress. Nevertheless, advantageous effects, if any, with respect to the prior art should be stated in the description, and any such effects are often important in determining "inventive step" (see Chapter 16[XR]).

Article 34(2)(c), 35

10.05 [E-VI-1.4] The results of the international preliminary examination, in the course of which one or more written opinions may be issued to the applicant by the International Preliminary Examining Authority and other communications with the applicant may occur, are given in an international preliminary examination report established by that Authority.

Article 33(5)

10.06 [E-VI-1.6] The present Chapter sets out the procedure before the International Preliminary Examining Authority with respect to international preliminary examination from the time such examination starts.

Start of, and time limit for, international preliminary examination

Article 31(2), (3) and (4)

10.07 [E-VI-3.1] Prior to the start of international preliminary examination of an international application, the applicant must, of course, have filed a demand (Form PCT/IPEA/401) that his international application be made the subject of an international preliminary examination as explained in paragraph 10.02[XR] Chapter 9[XR] gives details of the actions which take place on receipt of the demand before the examiner begins the international preliminary examination itself.

Start of Examination

Rule 69.1 (b)

- 10.08 [E-VI-3.2] The International Preliminary Examining Authority starts the international preliminary examination when it is in possession of the demand, if the applicant is required to furnish a translation under Rule 55.2, that translation, and of either the international search report or a notice of the declaration by the International Searching Authority under Article 17(2)(a) that no international search report will be established, with the exception of the following situations:
- (a) If the competent International Preliminary Examining Authority is part of the same national Office or intergovernmental organization as the competent International Searching Authority, the international preliminary examination may, if the International Preliminary Examining Authority so wishes, start at the same time as the international search, provided that the examination is not to be postponed according to the statement concerning amendments.
- (b) Where the statement concerning amendments contains an indication that amendments under Article 19 are to be taken into account (Rule 53.9(a)(i)), the International Preliminary Examining Authority does not start the international preliminary examination before it has received a copy of the amendments concerned.
- (c) Where the statement concerning amendments contains an indication that the start of the international preliminary examination is to be postponed (Rule 53.9(b)), the International Preliminary Examining Authority does not start the international preliminary examination before:
 - (i) it has received a copy of any amendments made under Article 19;
 - (ii) it has received a notice from the applicant that he does not wish to make amendments under Article 19; or
 - (iii) the later of three months from the transmittal of the international search report and written opinion or of the declaration that no international search will be established; or the expiration of 22 months from the priority date;

whichever occurs first.

(d) Where the statement concerning amendments contains an indication that amendments under Article 34 are submitted with the demand (Rule 53.9(c)) but no such amendments are, in fact, submitted, the International Preliminary Examining Authority does not start the international preliminary examination before it has received the amendments or

before the time limit fixed in the invitation referred to in Rule 60.1(g) has expired, whichever occurs first.

Time Limit for Completing Examination

Rule 69.2

10.09 [E-VI-3.3] The time limit for the establishment of the international preliminary examination report is the same for all International Preliminary Examining Authorities and is set out in Rule 69.2. This time limit may not exceed whichever expires last of:

- (i) 28 months from the priority date;
- (ii) six months from the time period provided under Rule 69.1 for the start of the international preliminary examination, or
- (iii) six months from the date of receipt by the International Preliminary Examining Authority of the translation furnished under Rule 55.2.
- 10.10 [E-VI-3.4] If, in case of lack of unity of invention, the time limit cannot be met, the international preliminary examination report must be established promptly after the receipt of additional preliminary examination fees or after the expiration of the time limit for payment of such fees, if no such payment is made.

Rule 69.1 (b), 69.1(b)(bis)

10.11 [E-VI-3.5] Where the International Preliminary Examining Authority is part of the same national Office or intergovernmental organization as the International Searching Authority and the international search and the international preliminary examination are "telescoped," the first written opinion of the examiner (see paragraph CHAPTER 12[XR]) may be issued at the same time as the international search report, that is, in the normal situation where priority is claimed, by the end of the 16th rather than the 20th month. The international searching authority will issue the international preliminary examination report if application complies with PCT Article 34(2)(c).

First stage of international preliminary examination

General

10.12 [E-VI-5.2] The international preliminary examination is to be carried out in accordance with Article 34 and Rule 66. A written opinion should have been established on the application by the International Searching Authority. Usually this will be considered as the first written opinion of the International Preliminary Examining Authority (see paragraph 3.17 [XR] for the exceptions to this). The examiner performing the international preliminary examination, if he has not already done so during the international search, study the description, the drawings (if any), and the claims of the international application, including any amendments and observations which may have been filed, and the documents describing the prior art as cited in the international search report. He should then determine whether a further written opinion (or a first written opinion in the exceptional case where a written opinion of the International Searching Authority has either not been prepared or else is not treated as the first written opinion of the International Preliminary Examining Authority) is required.

- Cases Where No Written Opinion is Required

Article 34(2)(c)

- 10.13 [E-VI-5.3] A written opinion (see paragraphs VI-5.10 to VI-5.18 Chapter 12 [XR] and section VI-6) Chapter 6 [XR] is not required and the examiner may immediately establish the international preliminary examination report (see section VI-8) (whether or not the written opinion of the International Searching Authority is treated as the first written opinion of the International Preliminary Examining Authority), if:
- (i) he is of the opinion that, having regard to the prior art, the claimed invention satisfies the criteria specified in Article 33(1) (novelty, inventive step and industrial applicability);
- (ii) he is not aware of any lack of compliance with the requirements of the PCT as regards the form and contents of the international application;
- (iii) he does not intend to make any observations on the clarity of the claims, the descriptions and the drawings or the question whether the claims are fully supported by the description as provided for in Article 35(2) and Rule 70.12(ii); and
- (iv) the same Authority acts both as the International Searching Authority and the International Preliminary Examining Authority.
- 10.14 A further written opinion need not be required where the written opinion of the International Searching Authority is treated as the first written opinion of the International Preliminary Examining Authority. The examiner may establish the international preliminary examination report taking into consideration any comments or amendments made by the applicant.
- Cases Where a further Written Opinion May be Issued
- 10.15 Assuming that the written opinion of the International Searching Authority is treated as the first written opinion of the International Preliminary Examining Authority, the examiner will normally draw up the international preliminary examination report without a further written opinion, even if there are objections outstanding. However where the applicant has made a credible attempt to overcome or rebut the objections in the written opinion of the International Searching Authority, but failed to satisfy the examiner that all the relevant criteria are met, a further written opinion may be issued only if there is sufficient time available to establish the international preliminary examination report prior to expiration of the time period set in Rule 69.2 for establishment of the international preliminary examination report.
- 10.16 If there is a lack of unity of invention, the examiner may issue the applicant an invitation to restrict the claims to a single invention or pay additional fees to search additional inventions before the issuance of either a written opinion at the international preliminary examination stage or the international preliminary examination report is issued to the applicant [XR Chapter 21].

Rule 66.1(e)

10.17 [E-VI-5.4] It is to be noted that international preliminary examination can be carried out only on those inventions in respect of which the International Searching Authority has established the international search report. This follows from the requirement in Article 33(6)

that the International Preliminary Examining Authority has to take into consideration the documents cited in the international search report (see, however, paragraph [XR21.12).

Further stage of international preliminary examination

Article 34(2)(d), Rule 66.4(a) and (b)

10.18 [E-VI-6.1] When the applicant has responded to a written opinion, the examiner may, if necessary and if sufficient time remains for the applicant to respond and for the international preliminary examination report to be established (see paragraphs [XR10.09 AND 10.10]), issue one or more additional written opinions. Likewise, if the applicant so requests, the examiner may give him one or more additional opportunities to submit amendments or arguments.

10.19 [E-VI-6.5] The additional written opinion from the examiner should invite the applicant to submit a written reply together with the amendments. After receipt of this opinion, the applicant may respond by amending the claims, description and drawings or, if he disagrees with the opinion, submit arguments, as the case may be, or do both. The conditions for amendments set out in paragraphs Chapter 11[XR] and [XR10.26-10.32] would apply.

10.20 [E-VI-6.2] The examiner should apply the same standard of international preliminary examination in relation to matters of substance at all stages in the processing of the international application. However, after the international searching authority has established a first written opinion, he will not normally need to completely re-read the amended application if he has drafted his first written opinion in a comprehensive way (see paragraph 12.44) [XR] but he should concentrate on the amendments themselves and any related passages, and on the deficiencies indicated in his first written opinion.

10.21 [E-VI-6.3] The examiner should be guided by the overriding principle that an international preliminary examination report should be established after as few written opinions as possible, and he should control the procedure with this always in mind. The PCT provides that the process of communicating with the applicant described in paragraph [XR10.16] shall be repeated if the International Preliminary Examining Authority so wishes. Nevertheless, if it is clear that the applicant is not making any real effort to deal with the examiner's objections, either by amendments or by counter-arguments, then at the conclusion of the first written opinion stage the examiner should establish the international preliminary examination report (see section [XR10.52]). The examiner may consider issuing a second written opinion, if there are still objections that are required to be met, subject to sufficient time being available having regard to the time limit for the establishment of the international preliminary examination report (see paragraphs [XR10.19 AND 10.30]) whether they could best be resolved by a further written opinion, a telephone discussion or an interview.

10.22 [E-VI-6.4] If the matters are such that the applicant is likely to require time to consider them, the examiner may wish to issue an additional written opinion. If, however, there seems to be confusion about points in dispute, for example, if the applicant seems to have misunderstood the examiner's reasons, or if the applicant's own argument is not clear, then it may expedite matters if the examiner proposes an interview. On the other hand, if the matters to be resolved are minor, or can quickly and easily be explained and dealt with, then they might be settled more expeditiously by telephone discussion. Discussion with the applicant by interview or telephone is more fully considered in paragraphs [XR10.46-10.51]

10.23 [AU-E-6.2] Where a response to a written opinion is received in the form of arguments only, the written opinion is to be reconsidered in the light of those arguments. Where the

response includes some amendments, other than rectification of obvious errors (Rule 66.5), consider the amended description, drawings, and/or claims as in paragraphs [XR12.57+] In such a case the international preliminary examination report should indicate that applicant's arguments have been taken in account in establishing the international preliminary examination report. [In addition the examiner should present a rebuttal to applicant's arguments.]

Rule 66.4bis

- 10.24 [AU-E-6.3] Where the time limit set for response to a further written opinion expires without a response being received, the file is to be forwarded to the examiner who prepared the opinion, who should proceed to establish the international preliminary examination report as in Chapter 12 [XR].
- 10.25 Where a response is received after the expiration of the time limit and the report has not yet been established, then the response can be considered. But note Rule 66.4 bis (amendments or arguments need not be taken into account). See also paragraph [XRNONE?]
- 10.26 [AU-E-6.4] Where the response does not include the letter referred to in the second sentence of Rule 66.8(a) (explaining the differences between the replaced sheets and the replacement sheets) then, unless the presence of this letter is critical to the understanding of the amendments, its absence should not interrupt processing and the response should receive immediate detailed consideration. Where, because of exceptional circumstances, the letter is required, and time permits, then a request for this letter may be dispatched using the form PCT/IPEA/424.

Resuming international preliminary examination after establishment of IPER

Rule 66.4, 66.6

- 10.27 [AU-E-6.7] There is no restriction on resuming international preliminary examination after a report has been issued, provided the circumstances justify such an action. Any replacement report resulting from the re-opening of international preliminary examination should be clearly labeled as such so that elected offices are aware of its status.
- 10.28 The IB must be advised to disregard the earlier report. If the resulting response is a further written opinion, then this opinion will be sent to the applicant only. However when the resulting response is another IPER, this will be sent to both the applicant and the IB as a "corrected version" of the IPER.
- 10.29 The retraction of an IPER should only be done under exceptional circumstances. The type of circumstance which justifies the re-opening of preliminary examination is where the report was issued earlier than it otherwise would have, by reason of an error or omission on the part of the IPEA. For example, the IPEA establishes the IPER without consideration of a timely filed amendment. Note that once examination of a particular application has been re-opened, any subsequent request to re-open examination of that application should not be entertained.

Rule 66.2(c), 66.3

Matters applicable generally to various stages of international preliminary examination

Making amendments—general considerations

Rule 12.2, 66.5, 66.9, 91

10.30 [E-VI-7.1] Any change, other than the rectification of obvious errors, in the claims, the description, or the drawings, including cancellation of claims, omission of passages in the description, or omission of certain drawings shall be considered an amendment. Any amendment to the international application must be submitted in the language in which the international preliminary examination is carried out.

Rule 66.4his

10.31 [E-VI-7.1a] The examiner need not take into account for the purposes of a written opinion or the international preliminary examination report any amendments or arguments he receives after he has begun to draw up that opinion or report. However, there may be situations where it is advisable, to the extent possible, to take such amendments or arguments into account. For example, it can be expected that the applicant would submit amendments that would render the written opinion unnecessary or would address points which the examiner intends to raise in the written opinion; or it can also be expected that the international preliminary examination report could, because of those amendments, be favorable for the applicant.

Rule 66.8(a)

10.32 [E-VI-7.2] Amendments to the claims, the description and the drawings must be made by filing replacement sheets when, on account of the amendments, the replacement sheet differs from the sheets previously filed. The replacement sheets must be accompanied by a letter which draws attention to the differences between the replaced sheets and the replacement sheets and shall preferably also explain the reasons for the amendments.

Rule 66.8(a)

10.33 [E-VI-7.3]In the particular case where the amendments cancel the claims, passages in the description or certain drawings resulting in the cancellation of an entire sheet, the amendment must be submitted in the form of a letter canceling the sheet. That letter shall preferably also explain the reasons for the amendments.

Rule 11.12, 11.14

10.34 [E-VI-7.4]It should be noted that, when a replacement sheet is required under paragraph [XR10.28], the applicant must submit such sheet in typed form. However, replacement sheets containing handwritten amendments may be allowed as well at the discretion of the examiner. However, in cases where the correction or amendment made by the applicant is minor, (for example, not more than a few, say, for example, up to six words), he may submit a copy of the relevant sheet to the International Preliminary Examining Authority on which the correction or amendment is interlineated in typescript, if such interlineation is free from erasures, alterations and overwritings, and so long as the authenticity of this sheet is not in question and the requirements for clarity and good reproduction are met. The International Preliminary Examining Authority should invite the applicant to resubmit his amendments in proper form whenever compliance with these principles is lacking.

Rule 92.1(a), 92.2(a)

10.35 [E-VI-7.5] The examiner should also note that any paper submitted by the applicant in the course of international preliminary examination other than the international application itself, if not in the form of a letter, must be accompanied by a letter signed by the applicant.

The letter should identify the international application to which it relates and be in the same language as the said application or in one of the languages authorized to be used by the International Preliminary Examining Authority. If these requirements are not complied with, the applicant should be informed as to the non-compliance and invited to remedy the omission within a time limit fixed in the invitation. The time limit should be reasonable in the circumstances, but no less than 10 days and no more than one month from the mailing of the invitation. If the omission is remedied within the time limit fixed in the invitation, the omission should be disregarded, otherwise the paper should be disregarded.

Rule 92.2(b)

10.36 [E-VI-7.6] In an exceptional case, the applicant may request the International Preliminary Examining Authority to allow a change in the language of correspondence being submitted to another language authorized by the International Preliminary Examining Authority. If such a change is allowed, correspondence with the applicant would be in the new authorized language.

- Appraisal of amendments

10.37 [E-VI-7.7] The examiner should make sure that amendments filed in accordance with the PCT, which are necessary to correct any deficiencies notified to the applicant, do not add to the content of the application as filed, thus violating Article 34(2)(b). The examiner should consider as acceptable restriction of the scope of the claims or amendments which improve the clarity of the description or amendment of the claims in a manner clearly desirable, without changing their subject matter content or scope. An amended international application must, of course, satisfy all the requirements of the PCT including the matters listed in paragraph Chapter 11 [XR] However, especially when the claims have been substantially limited, the examiner should bear in mind that the following questions may require special consideration at the amendment stage:

- (i) *Unity of invention:* Do the amended claims satisfy the requirement of Rule 13? When considering this matter, paragraphs Chapter 21 [XR] are applicable;
- (ii) Agreement of description and claims: If the claims have been amended, will the description require corresponding amendment to remove serious inconsistency between them? For example, is every embodiment of the invention described still within the scope of one or more claims (see paragraph Chapter 13[XR]?
- 10.38 Conversely, are all of the amended claims supported by the description (see section III-6) [XR Chapter 13).? Also, if the categories of claims have been altered, will the title require a corresponding amendment (see paragraph? Chapter [8] or 19[XR]

Additional subject matter

Rule 70.2(c)

10.39 [E-VI-7.8] There is normally no objection to an applicant's introducing, by amendment, further information regarding prior art which is relevant, nor should the straightforward clarification of an obscurity, or the resolution of an inconsistency, be objected to. When, however, the applicant seeks to amend the description (other than references to the prior art), the drawings, or the claims in such a way that subject matter which extends beyond the content of the application as filed is thereby introduced, the international preliminary examination report must be established as if such amendment had not been made. In such

cases the replacement sheets containing such amendments [will not][will] be attached to the IPER.

Article 34(2)(b), Rule 70.2(c)

10.40 [E-VI-7.91] An amendment should be regarded as introducing subject matter which extends beyond the content of the application as filed, and therefore unacceptable, if the overall change in the content of the application (whether by way of addition, alteration or excision) results in the skilled person being presented with information [which is not directly and unambiguously derivable from that previously presented by the application,] [which was not expressly or inherently presented in the application as filed] even when account is taken of matter which is implicit to a person skilled in the art in what has been expressly mentioned.

10.41 [E-VI-7.10] The subject matter newly presented may be introduced by explicitly mentioning matter which was either not previously mentioned at all, or only implied. For example, if in an international application relating to a rubber composition comprising several ingredients the applicant seeks to introduce the information that a further ingredient might be added, then this amendment should normally be regarded as going beyond the disclosure in the application as originally filed. Likewise, if in an application which describes and claims apparatus "mounted on resilient supports," without disclosing any particular kind of resilient support the applicant seeks to add specific information that the supports are, or could be, for example, helical springs (see, however, paragraph [XR10.37]), then the amendment should normally be regarded as going beyond the disclosure in the application as originally filed.

10.42 [E-VI-7.11]If, however, the applicant can show convincingly that the subject matter in question would, in the context of the claimed invention, be so well known to the person skilled in the art that its introduction could be regarded as an obvious clarification and, therefore, as not extending the content of the application, it is permissible. For example, if in the above-mentioned case of the resilient supports the applicant were able to demonstrate that drawings, as interpreted by the person skilled in the art, showed helical springs, or that the person skilled in the art would naturally use helical springs for the mounting in question, then specific reference to helical springs should be regarded as permissible.

10.43 [E-VI-7.11a] Where a technical feature was clearly disclosed in the original application but its effect was not mentioned or not mentioned fully, yet it can be deduced without difficulty by a person skilled in the art from the application as filed, subsequent clarification of that effect in the description might not contravene Article 34(2)(b).

10.44 [E-VI-7.12] Amendment by the introduction of further examples, for example, in the chemical field, should always be looked at very carefully, since *prima facie* any further example to illustrate a claimed invention may extend the disclosure of the international application as originally filed.

10.45 [E-VI-7.12a] However, later-filed examples or statements of advantage, even if not allowed into the application, may nevertheless be taken into account by the examiner as evidence in support of the allowability of the claims in the application. For instance, an additional example may be accepted as evidence that the invention can be readily applied, on the basis of the information given in the originally filed application, over the whole field claimed (see paragraph) paragraph 13.38[XR]; or an additional statement of advantage may be accepted as evidence in support of inventive step (see paragraph) paragraph 16.14[XR]. When such evidence is used by the examiner to support a positive conclusion on inventive

step, a mention of this evidence should be made in the international preliminary examination report.

10.46 [E-VI-7.12b] Care must also be taken to ensure that any amendment to, or subsequent insertion of, a statement of the technical problem solved by the invention meets Article 34(2)(b). For example, it may happen that, following restriction of the claims to meet an objection of lack of inventive step, it is desired to revise the stated problem to emphasize an effect attainable by the thus restricted invention but not by the prior art. It must be remembered that such revision is only permissible if the effect emphasized is one deducible by a person skilled in the art without difficulty from the application as filed (see paragraphs . [XR10.38 AND 10.39]

10.47 [E-VI-7.13] As indicated in paragraphs , [XR10.34 and 10.35] alteration or excision of the text, as well as the addition of further text, may introduce new subject matter. For instance, suppose a claimed invention related to a multi-layer laminated panel and the description included several examples of different layered arrangements, one of these having an outer layer of polyethylene, amendment either to alter the outer layer to polypropylene or to omit this layer altogether would not normally be regarded as permissible. In each case, the panel disclosed by the amended example would be quite different from that originally disclosed and hence the amendment would be considered as introducing new subject matter.

- Rectification of obvious errors

Rule 66.5, 91.1(b)

10.48 [E-VI-7.14] Errors which are due to the fact that something other than that which was obviously intended was written in the contents of the international application (other than the request) or other paper submitted to the International Preliminary Examining Authority (for example, linguistic errors, spelling errors) may usually be rectified at any time during international preliminary examination. If a correction is not of this character (for example, if it involves cancellation of claims, omission of passages in the description or omission of certain drawings), it would be treated by the examiner as an amendment and dealt with on that basis (see paragraph). see Chapter 22[XR]

Rule 91.1(d)

10.49 [E-VI-7.15] Subject to authorization (see paragraph [XR10.45]), rectification of obvious errors in the international application can be made at the request of the applicant of his own volition. In addition, the examiner, upon study of the international application (other than the request) and any other papers submitted by the applicant, might also note obvious errors. [XRSee Chapter 22) Although Rule 91 allows the IPEA to invite applicant to submit a request for rectifications, it is not foreseen that such invitations will be issued since any error which can be rectified under Rule 91 will not be an impediment to establishing the international preliminary examination report.

Rule 91.1(e), (f) and (g)(ii), Section 607

10.50 [E-VI-7.16] Rectification of an obvious error cannot be made before the International Preliminary Examining Authority without the express authorization of that Authority. The Authority is permitted to authorize rectification of such errors in a part of the international application other than the request or in any papers submitted to it. The examiner may only authorize rectification of obvious errors up to the time the international preliminary examination report is established. See (paragraph 22.01) [XR]

- Informal communication with the applicant

Rule 66.6

10.51 [E-VI-7.17] The International Preliminary Examining Authority may, at any time, communicate informally, over the telephone, in writing, or through personal interviews, with the applicant. The circumstances in which it may be appropriate for the examiner to communicate with the applicant by telephone or propose an interview rather than send an additional written opinion are considered in paragraphs [XR10.22 AND 10.23] Communication will, in most instances, be with the applicant's agent (the meaning of "agent" in the PCT is set out in Rule 2.2) rather than the applicant himself. If the applicant, or his agent, requests an interview, the examiner, at his discretion, should grant more than one interview if he believes that a useful purpose would be served by such a discussion.

10.52 [E-VI-7.18] When an interview is arranged, whether by telephone or in writing, and whether by the examiner or by the applicant, the matters for discussion should be stated. If the arrangement is made by telephone, the examiner should record the particulars and briefly indicate, on the file, the matters to be discussed.

Rule 66.6

10.53 [E-VI-7.19] The interview is an informal procedure and the recording of the interview depends upon the nature of the matters under discussion. Where the interview is concerned with the clarification of obscurities, the resolution of uncertainties, or putting the international application in order by clearing up a number of minor points, it will usually be sufficient if the examiner makes a note on the file of the matters discussed and the conclusions reached, or amendments agreed upon. If, however, the interview is concerned with reviewing weightier matters, such as questions of novelty, inventive step, or whether the amendment introduces new subject matter, then a fuller note of the matters discussed may be made in the file for use in an additional written opinion (if any) or the international preliminary examination report.

Rule 66.3, 66.4, 66.4bis, 66.6

10.54 [E-VI-7.20] If a new objection as to substance is raised at an interview and no amendment to meet it is agreed upon at the time, the objection may be confirmed in an additional written opinion inviting the applicant, within the prescribed time limit, to respond, if he so wishes. The examiner should, however, keep in mind the time limit for the establishment of the international preliminary examination report (see paragraphs). [XR10.09 and 10.10]

10.55 [E-VI-7.21] When the telephone is used to settle outstanding matters, the normal procedure should be for the examiner to telephone the applicant or the agent identifying the international application he wishes to discuss and requesting the applicant or agent to telephone back at a specific time. A note should be made on the file, giving particulars and identifying the matters discussed and any agreements reached.

10.56 [E-VI-7.22] The records of interviews or telephone conversations should always indicate whether a response is due from the applicant or agent or whether the examiner wishes to issue an additional written opinion or establish the international preliminary examination report.

Establishment of the international preliminary examination report

– General

Article 35(2)

10.57 [E-VI-8.1] An international preliminary examination report must be issued within the prescribed time limit (see paragraphs) [XR10.09 and 10.10] in all cases. Except in the case of an international application in respect of which an affirmative opinion can be given initially to the three criteria referred to in Article 34(2)(c), this will follow one or more written opinions and possibly other communications with the applicant. In most cases this will follow the issuance of the written opinion by the international searching authority. If the examiner considers that the possibility exists of amending or correcting the international application to bring it into a form which meets the requirements of Article 33 (see paragraph [XR10.01], then the examiner should communicate to the applicant in his first written opinion, indicating that the International Preliminary Examining Authority is of the opinion that suitable amendments must be submitted within a stated period (see paragraph) [XR12.45]. Ultimately, the examiner will have to prepare a preliminary examination report, taking due account of any amendments or comments received from the applicant. All amendments and arguments submitted before the examiner has begun to draw up the report must be taken into account. Amendments and arguments received later need not be considered for the purposes of the report.

10.58 [E-VI-8.2] The international preliminary examination report giving the results of the international preliminary examination is prepared by the examiner by the completion of the prescribed form (Form PCT/IPEA/409). The examiner should keep in mind, when establishing the international preliminary examination report, that it does not contain any statement on the question whether the claimed invention is or seems to be patentable or unpatentable according to any national law. Chapter 12 [XR] gives detailed guidance on the completion of the completion of the prescribed form.

Determination of time limits

Article 35(1), 47(1)

- 10.59 [E-VI-9.1]When it is a matter for the examiner to determine applicable time limits referred to in the PCT, he must consult all the factors relevant to the particular international application under consideration as well as the Regulations under the PCT which govern such time limits. The most important time limits for international preliminary examination so far as International Preliminary Examining Authorities are concerned, have been considered in more detail in the various Chapters and paragraphs as follows:
 - (i) translations of priority document—see Chapter 18 [XR] and; Chapter 9[XR]
 - (ii) amendments—see Chapter 11[XR] and; Chapter 12.45[XR]
- (iii) rectifications of obvious errors—see paragraph ; [XR Chapter 22 and paragraph 10.43]
 - (iv) response by applicant to first written opinion see Chapter 12[XR]
 - (v) restricting claims or payment of additional fees—see Chapter 21[XR]
 - (vi) furnishing priority documents—see Chapter 18[XR

(vii) establishment of the international preliminary examination report—see paragraphs VI-3.3 and VI-3.4. [XR]

Rule 80

10.60 [E-VI-9.2] Any time limit fixed by the International Preliminary Examining Authority will usually be specified in full months which should be calculated from the day following the date of mailing of a particular communication inviting a response by the applicant. Rules 80.1 to 80.4 provide precise details for the determination of the day of expiration of the prescribed time limit. Rule 80.5 contains provisions covering certain contingencies, for example, that the Office of the International Preliminary Examining Authority is not open on the day on which the time limit to respond by the applicant expires. Rule 82 covers the situation where there is a general disruption in the postal service.

- Failure of applicant to respond within a prescribed time limit

Rule 66.4bis

10.61 [E-VI-9.3] If the applicant has not responded within a prescribed time limit, the effect of such lack of response differs as the circumstances of the case may require under the PCT and its Regulations. For instance, the international preliminary examination report may be established as if priority had not been claimed (see paragraph) [XR] Chapter ??; the international preliminary examination report may be established on the "main invention" (see paragraph [XR12.52]; the international preliminary examination report may be established with a negative determination (see Chapter 12[XR] and [XR10.22]). Normally, amendments or arguments need not be taken into account by the examiner for the purposes of a written opinion or the international preliminary examination report if they are received after he has begun to draw up that opinion or report.

Transmittal of the international preliminary examination report

Rule 71.1

10.62 [E-VI-10.1] The International Preliminary Examining Authority must on the same day transmit one copy of the international preliminary examination report (Form PCT/IPEA/409) and its annexes, if any, to the International Bureau and one copy to the applicant.

Dispatch of report

10.63 [AU-E-7.19] [Upon establishment of the report, the following actions are to be taken:

- (i) dispatch a copy of the report under cover of the original notification, with a common date of mailing, to the applicant/agent;
- (ii) dispatch, on the same day, the original of the report plus amendments/rectifications to the IB under the cover form PCT/IPEA/415;
- (iii) place a copy of the notification, report and amendment/rectifications on the search file; and
- (iv) where belated filing of Article 34 amendments means that such amendments have not been taken into account by the IPEA, dispatch the form PCT/IPEA/432 (second check box action).]

Rule 72

10.64 [E-VI-11.1] Any elected State may require that the international preliminary examination report, established in any language other than the official language, or one of the official languages, of its national Office, be translated into English.

Withdrawal of the demand or all elections

Rule 90bis.4

10.65 [E-VI-12.1] In the particular case where the applicant, by a signed notice sent to the International Bureau, withdraws the demand or all elections, the International Preliminary Examining Authority would be notified of the withdrawal by the International Bureau, and the International Preliminary Examining Authority, accordingly, would not have to carry out, or complete, as the case may be, the international preliminary examination. If the notice of withdrawal is submitted by the applicant to the International Preliminary Examining Authority, the examiner must mark the date of receipt on the notice and transmit it promptly to the International Bureau. The notice shall be considered to have been submitted to the International Bureau on the date marked.

Access to information and documents relating to the international preliminary examination

- Access by third parties to information held by the International Bureau

Article 38, Rule 61.4

10.66 [E-VI-13.1] Contrary to the international search report which is published together with the international application by the International Bureau, the international preliminary examination report is not published by the International Bureau. Furthermore, the International Bureau does not allow access by third parties to any documents relating to international preliminary examination contained in its file except with the applicant's authorization. The International Bureau shall, if so requested by an elected Office, furnish copies of the international preliminary examination report on behalf of that Office. The Bureau, subject to the reimbursement of the cost, furnishes to the third party so authorized copies of the documents concerned.

 Access by third parties to the file held by the International Preliminary Examining Authority

Article 38, Rule 94

10.67 [E-VI-13.2] The International Preliminary Examining Authority does not allow access by third parties to any documents contained in its file, except with the applicant's authorization. The International Preliminary Examining Authority will provide documents to any elected Office which so requests once the international preliminary examination report has been established. The Authority, subject to the reimbursement of the cost, furnishes to the third party so authorized copies of the documents concerned.

Access by third parties to the file held by the elected Office

Rule 94

10.68 [E-VI-13.3] As from 1 July 1998, two systems exist in parallel with regard to access to information and documents relating to the international preliminary examination contained in the file held by the elected Offices, depending on whether the international application concerned was filed before 1 July 1998—in which case Rule 94.1 as in force until 30 June 1998, will continue to apply—or on or 1 July 1998—in which case Rule 94.1 as in force from 1 July 1998 will apply.

Article 38, Rule 94

10.69 [E-VI-13.4] *International applications filed before 1 July 1998*. The international preliminary examination report only (and any required English translation thereof), copies of which are communicated to the elected Offices concerned (see paragraph), Chapter 15[XR] is accessible to third parties at any elected Office which, under its applicable national law, makes documents, such as the international preliminary examination report, accessible to third parties. Third parties do not have access to documents other than the report (such as written opinions and responses thereto), which are kept in the file of the International Preliminary Examining Authority but are accessible by elected Offices, upon specific request, once the international preliminary examination report is established. Access to those documents is limited to the elected Offices themselves; third parties do not have access to those documents via the elected Offices.

Article 38, Rule 94

10.70 [E-VI-13.5] *International applications filed on or after 1 July 1998.* If the national law applicable by any elected Office allows access by third parties to the file of a national application, that Office may also allow access to documents relating to the international application contained in its file, including any documents in that file relating to the international preliminary examination (such as the international preliminary examination report or any document, such as written opinions and responses thereto), to the same extent as provided by the national law for access to the file of a national application. Once the international preliminary examination report has been established, the International Preliminary Examining Authority furnishes copies of any documents contained in the international preliminary examination file to any elected Office which makes an express request to this effect, subject to the reimbursement of the cost of the service.

CHAPTER 11 AMENDMENTS

Amendment prior to the start of international preliminary examination

Amendment of the Claims Under Article 19

11.01 [E-VI-4.10] The documents making up the international application referred to in paragraph VI-4. I [XR] may include amendments of the claims filed by the applicant under Article 19, which must not go beyond the disclosure in the international application as filed. These will be transmitted to the International Preliminary Examining Authority by the International Bureau. If a demand for international preliminary examination has already been submitted, the applicant should preferably, at the time he files the Article 19 amendments, also file a copy of the amendments with the International Preliminary Examining Authority. In the event that the time limit for filing amendments under Article 19, as provided in Rule 46.1, has not expired and the demand includes a statement that the start of the international preliminary examination is to be postponed under Rule 53.9(b), the international preliminary examination should not start before the examiner receives a copy of any amendments made under Article 19 or a notice from the applicant that he does not wish to make amendments under Article 19, or before the expiration of 22 months from the priority date, whichever occurs first.

- Amendment Under Article 34

Rule 66.1, 66.4bis, 66.8(a)

11.02 [E-VI-4.11] The applicant has the right to amend the claims, the description, and the drawings, in the prescribed manner and before the start of international preliminary examination. The amendment must not go beyond the disclosure in the international application as filed.

Rule 66.1 (a)

11.03 [E-VI-4.12] When amendments to the description, claims or drawings are made under Rule 66.8, they must be accompanied by a letter which draws attention to the differences between the replaced sheets and the replacement sheets and shall preferably explain the reasons for the amendments. These amendments may have been submitted to avoid possible objections of lack of novelty and/or lack of inventive step in view of the citations listed in the international search report. Examples of such objections include: objections noted by the International Searching Authority under Article 17(2)(a)(ii) (that is, that all or at least some claims do not permit a meaningful search) or under Rule 13 (that is, that there is a lack of unity of invention), objections raised in the written opinion of the International Searching Authority, or objections that may be raised for some other reason, for example, to remedy some obscurity which the applicant himself has noted in the original documents or their translation.

Article 5, 6, 34(2)(b), Rule 66.1

11.04 [E-VI-4.13] The applicant is not restricted to amendments necessary to remedy a defect in his international application. However, any amendment submitted must not add subject matter which goes beyond the disclosure of the international application as originally filed (see paragraph VI-4.11 [XR]). Furthermore, it must not itself cause the international application as amended to be objectionable under the PCT, for example, the amendment should not introduce obscurity.

Amendments to Translated Applications

Rule 55, 60.1(a) to (e)

11.05 [E-VI-4.8] Where amendments have been filed under Article 34(2)(b) (see also paragraph VI-4.11 [XR]), the question may arise whether a particular amendment proposed by the applicant goes beyond the disclosure of the international application as filed (see paragraphs VI-7.8 to VI-7.13 [XR]). In order to make this determination, the examiner should normally assume, in the absence of evidence to the contrary, that the original translation of the international application into the language of publication or, where a translation is required under Rule 55.2, into the language of that translation, is in conformity with the text of the original language of filing. If the examiner determines that an erroneous translation has been published or furnished under Rule 55.2, he may ask the applicant, at any time during the proceedings before the International Preliminary Examining Authority, to correct any such translation so as to bring it in line with the language of the text as filed and/or as published, as the case may be.

PART IV CONTENT OF WRITTEN OPINIONS AND THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

CHAPTER 12 CONTENT OF WRITTEN OPINIONS AND THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Introduction

12.01 This chapter covers the content of any written opinion, whether established by the International Searching Authority or the International Preliminary Examining Authority. It also covers the content of the international preliminary examination report, which follows a very similar format to a written opinion.

Article 33(1), 34(2)(c): Rule 66

12.02 The purpose of a written opinion is to give a primary indication to the applicant of the defects which the examiner considers to exist in the application so that the applicant can determine the most appropriate course of action, including the possibilities of submitting comments or amendments, before any final report is drawn up. Its primary role is to identify whether or not the claimed invention appears to be novel, involve an inventive step (be non-obvious) and be industrially applicable. It will also include opinions on certain other substantive defects which may be in the application, mainly where these affect the ability to determine the novelty, inventive step or industrial application of the invention accurately, and on certain defects in the form of the international application.

12.03 The international preliminary examination report follows the same format as a written opinion and, assuming that international preliminary examination is demanded, is established taking into account any amendments or observations filed in response to the written opinions (either of the International Searching Authority or of the International Preliminary Examining Authority) which precede it.

Different Types of Opinion and Report

Written Opinion of the International Searching Authority

Rule 43bis, 66.1bis

12.04 A written opinion will be issued by the International Searching Authority together with the international search report. This will normally be treated as the first written opinion of the International Preliminary Examining Authority under Article 34(2) in the event that international preliminary examination is demanded and, as such, the opinion will include an invitation to submit a response, together with a time-limit for that response, if the applicant wishes to demand international preliminary examination. However International Preliminary Examining Authorities may notify the International Bureau that this will not be the case for written opinions issued by specified International Searching Authorities other than themselves. Such notifications are published by the International Bureau in the Gazette.

12.05 Many of the Rules that are referred to in this chapter are stated to apply to the International Preliminary Examining Authority conducting an international preliminary examination under Chapter II of the Treaty. However, while this is not explicitly stated in the references, they also apply to the International Searching Authority by virtue of Rule 43bis.1(b).

- Written Opinion(s) of the International Preliminary Examining Authority

Rule 66.4, 66.4, 66.6

12.06 Written opinions may also be issued by the International Preliminary Examining Authority where international preliminary examination is demanded. The written opinion of the International Searching Authority is usually treated as the first written opinion of the International Preliminary Examining Authority. Although not required, the IPEA may establish further written opinions taking into account arguments or amendments made by the applicant in response to the written opinion issued by the International Searching Authority. Such written opinions will normally offer the applicant a further opportunity to submit amendments or arguments before the international preliminary examination report is established. The International Preliminary Examining Authority may also communicate informally with the applicant over the telephone, in writing, or by personal interview.

- 12.07 For international applications where the written opinion of the International Searching Authority is not treated as the first written opinion under Article 34(2), the International Preliminary Examining Authority should:
 - (a) notify the applicant accordingly in writing (see Chapter 9 [XR]); and
- (b) establish a first written opinion as defined in 12.02, which should take into account the content of the written opinion established by the ISA.
- The International Preliminary Examination Report
- 12.08 Assuming that international preliminary examination is demanded, an international preliminary examination report (titled "international preliminary report on patentability (Chapter II of the Patent Cooperation Treaty)") is drawn up at the end of the process of examination, taking into account amendments or observations that the applicant has made during the process.

Content of the Opinion or Report

Overview of Content

Rule 43bis, 66.1bis, 66.2(a), 70.2(c) and (d)

12.09 [E-VI-5.10] Any written opinion should usually cover all matters referred to in Rule 66.2. Such matters may be:

- (i) whether any of the situations referred to in Article 34(4) (subject matter of the application not required to be examined by the International Preliminary Examining Authority or meaningful opinion on novelty, inventive step or industrial applicability not possible because of lack of clarity or because the claims are not adequately supported by the description),
- (ii) an apparent failure to meet the criteria of novelty, inventive step or industrial applicability,
- (iii) defects in the form or contents of the international application (for example, failure to comply with one or more of the requirements specified in Rules 5 to 11),
- (iv) amendments which appear to go beyond the disclosure of the international application as filed,

- (v) an apparent lack of clarity in the claims, the description or the drawings or of support for the claims in the description such as would require some observations to be made in this respect in the international preliminary examination report should such report be established on the basis of the international application without further amendment,
- (vi) that a claim is directed to an invention on which no international search report has been established, and
- (vii) nucleotide and/or amino acid sequence listings not being available in such a form that a meaningful international preliminary examination can be carried out.
- Form of Opinion or Report
- 12.10 Written opinions are established in a standard format using form PCT/ISA/xxx [need a new form for this] (for the opinion of an International Searching Authority) or PCT/IPEA/408 (for an opinion of the International Preliminary Examining Authority). International Preliminary Examination Reports (given the title "international preliminary report on patentability (Chapter II of the Patent Cooperation Treaty)") are established using PCT/IPEA/409. Apart from the cover sheet, containing generally bibliographic details and any notification of action that the applicant may be invited to take, these follow the same format, including whichever of the following parts are appropriate to the particular international application:
 - (i) Basis of the opinion or report;
 - (ii) Priority;
- (iii) Non-establishment of opinion with regard to novelty, inventive step and industrial applicability;
 - (iv) Lack of unity of invention;
- (v) Reasoned statement under Rule 66.2(a)(ii) or Article 35(2) with regard to novelty, inventive step or industrial applicability and citations supporting such statement;
 - (vi) Certain documents cited;
 - (vii) Certain defects in the international application;
 - (viii) Certain observations on the international application.
- Data

Section 109

- 12.11 [E-VI-8.3] The following data (insofar as set out on the front page of the form) should first be included in accordance with Rules 70.3, 70.4, 70.5 and with the relevant Sections of the Administrative Instructions under the PCT:
 - (i) the international application number;
 - (ii) the name of the applicant;
 - (iii) the name of the International Preliminary Examining Authority;

- (iv) the international filing date;
- (v) the classification of the subject matter, at least according to the International Patent Classification (IPC);
 - (vi) the claimed priority date;
- (vii) the applicant's or agent's file reference (composed either of letters or numbers or both, but not exceeding 12 characters).

Section 504

- 12.12 The indication of the classification of the subject matter referred to in item (e), above, shall repeat the classification of the subject matter by the International Searching Authority given under Rule 43.3 if the examiner agrees with such classification, or, if the examiner does not agree with that classification, should set forth the classification which the examiner considers to be correct (see Chapter V, "Classification of International Applications," of the PCT International Search Guidelines).
- Box I Basis of the Written Opinion

Rule 66.2(a)(iv), 70.2(a) and (c)

- 12.13 [replacing E-VI-5.12] Since the written opinion of the International Searching Authority is drawn up at the same time as the international search report, it will almost always be established on the basis of the application as filed. However, any written opinion drawn up after amendments or corrections have been properly filed (for example a sequence listing complying with the required standards has been furnished on the request of the International Searching Authority or, where the written opinion is established by the International Preliminary Examining Authority, amendments have been filed under Article 19 or 34(2)(b)) should take these into account and note.
- 12.14 Any amendment submitted must not add subject matter which goes beyond the disclosure of the international application as originally filed (see paragraph 11.04 [XR]).
 - Examination on Basis of International Application as Filed
- 12.15 [AU-E-8.2.1] Where all documents examined are as originally filed, only the first check box (i.e. "the international application as originally filed") in Item 1 of Box I should be marked.
 - Substitute Sheets Deemed to Be Part of the Application as Originally Filed
- 12.16 [AU-E-8.2.2] Substitute pages or sheets, filed in response to an invitation by the RO to correct defects in the international application, are deemed to be part of the international application "as originally filed". If the applicant responds to the invitation to correct defects by substituting sheets of the application, these sheets are identified with "SUBSTITUTE SHEET (RULE 26)" stamped on them. Also, substitute pages or sheets for rectification of obvious errors under Rule 91 are deemed to be part of the international application "as originally filed". These sheets are identified with "RECTIFIED SHEET (RULE 91.1)" and "ENTERED DURING CHAPTER I" stamped on them.
 - Examination on Basis of Amended International Application

- 12.17 [AU-E-8.2.3] In response to an opinion, an applicant may file amendments with a cover letter. On receipt of these amendments, the IPEA will indicate on the top right hand corner of the substitute sheets the application number and the date of receipt. Note that the date stated by the applicant on the cover letter may differ from the date of receipt of the amendment.
- 12.18 Where proper amendments have been made under Article 19, they should be referred to in Box I Item 1 as "Claim(s) pages....as amended under Art 19". Note that under Article 19 only claims may be amended. These sheets are usually identified by "AMENDED SHEET (ARTICLE 19)".
- 12.19 Where proper amendments have been made under Article 34, these should also be referred to in Box I Item 1 as either "claims pages....filed with Demand" or "claims pages....received on....with the letter of".
- 12.20 The amendments under Article 34 should indicate the dates on the amendments as the "received on" dates and the applicant's correspondence date as the "with the letter of" date. Superseded amendments should not be included.
 - Language Considerations

Rules 23.1 (b), 48.3(b), 55.2 and 55.3

- 12.21 With regard to the language, Item 2 of Box I need not be filled if all the elements of the application (originally filed sheets and amended sheets, if any) were available or furnished to the ISA/IPEA in the language in which the international application was filed. Otherwise, an appropriate indication must me checked as to whether the elements were available or furnished to the ISA/IPEA in the language which is: (i) the language of a translation furnished for the purposes of international search (under Rule 23.1(b)); (ii) the language of publication of the international application (under Rule 48.3(b)); (iii) the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3). For further discussions of language, refer to Chapter 9. [XR]
 - Nucleotide and/or Amino Acid Sequence Listings
- 12.22 With regard to any nucleotide and/or amino acid sequence listings, an appropriate indication(s) must me checked as to the examination being drawn on the basis of the sequence listing: (i) contained in the international application in printed form; (ii) filed together with the international application in computer readable form; (iii) furnished subsequently to ISA/IPEA in written form; (iv) furnished subsequently to ISA/IPEA in computer readable form; (v) the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished; (vi) the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. For further discussions of the nucleotide and/or amino acid sequence listings, refer to Chapter 9. [XR]
 - Amendments Resulting in Gaps in Numbering
- 12.23 Where amendments under Article 19 or 34 have been made which result in cancellation or gaps in the numbering sequence of the description pages, claim numbers, and/or drawing sheets, these must be referred to in Item 4 of Box I of the written opinion and/or report. (Annex C.2 shows a completed example.)

- Amendments Going Beyond Original Disclosure

Rule 70.2(c)

- 12.24 Where amendments have been made which go beyond the original disclosure, this is indicated in Box I at Item 5. The particular amendments are identified and brief reasons given in a Supplemental Box sheet(s).
- 12.25 Refer to Chapter 11 [XR] for further Article 19/34 considerations.
- Box II Priority;
- 12.26 [AU-E-8.3] This part of the opinion or report is not relevant if the international application does not claim priority. Furthermore, where priority is claimed, but the citations in the international search report were all published before the earliest priority date, it is not necessary to consider whether the priority claim is valid.
- 12.27 Where one or more citations of the international search report were published after the earliest priority date, the validity of that earliest priority date requires checking.
- (a) Where the priority document is one which is in the records of the IPEA, it should be obtained from those records.

Rule 66.7 *Ad Inst* 421

(b) Where the priority document is a foreign document and it is not already in the file, the Authority may request a copy of the document from the IB and, if necessary, a translation from the applicant. In the meantime, if the outcome of the examination requires the issuing of an opinion, that opinion should be issued without waiting to obtain the priority document. An appropriate comment should be made under the heading "Additional observations, if necessary:" in Box II of the Written Opinion. If such a copy is not available because of non-compliance with Rule 17.1 by the applicant, the IPER may be established as if the priority had not been claimed and this is to be indicated in the report.

Rule 64.1

- 12.28 [AU-E-8.3.2] Where the right to priority is invalid, Box II of the Written Opinion or IPER must be completed.
- 12.29 "Additional observations" relate to Priority considerations only and not to clarity, descriptive support, defects or any other consideration relevant to Box VIII.
- Box III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability;[AU-E-8.4]

Art 17(2)(a)(i)

12.30 This part of the opinion or report explains why an opinion as regards novelty, inventive step and industrial applicability may not have been established for some or all of the subject matter of the international application. For example, Rule 67.1 establishes that no IPEA shall be required to examine certain subject matter within an international application, such as mathematical theories, plant or animal varieties and methods for treatment of the human or animal body. The agreement between WIPO and IPEAs further qualifies this by excepting from exclusion any subject matter which is examined under national grant procedures. See Chapter [XR] for details of excluded matter.

- Subject Matter Excluded Under Rule 67.1
- 12.31 Where some or all claims are not examined for novelty, inventive step or industrial applicability because they contain excluded subject matter, this observation must be indicated in Item 1 of Box III of the written opinion or examination report.
 - Clarity or Support

Rule 66.2(a)

- 12.32 [AU-E-8.4.2] Where the description, the claims, or the drawings are so unclear, or the claims are so inadequately supported by the description that no meaningful opinion can be formed on the questions of novelty, inventive step, or industrial applicability of the claimed invention, then the examination may be restricted to those claims that are sufficiently clear and supported by the description to enable an opinion or report to be prepared (see Box III, Item 1, 4th and 5th checkboxes).
- 12.33 The issues of clarity and descriptive support of claims may be raised separately from considerations of novelty, inventive step and industrial applicability at Box VIII of the opinion or report (see paragraph [XR]).
- 12.34 These matters should not be raised in an international preliminary examination report unless they have already been raised in a written opinion.
 - No International Search Made for Some or All Claims

Art 33(6)

- 12.34 Where the ISA has not established an international search report and instead issued a declaration under Article 17 (relating to excluded subject matter, clarity, lack of unity, etc), the questions of novelty, inventive step and industrial applicability cannot be addressed since there are no documents to consider under Article 33(6), and such reasoning is added to the 'non-establishment' Box of the opinion/report form. (Note that this applies even where Article 34 amendments may have overcome consideration under Article 34(4)(ii)).
 - Nucleotide and/or Amino Acid Sequence Listings

Ad Inst Annex C

- 12.35 [AU-E-8.4.4] A failure to supply nucleotide and/or amino acid sequence listing information, or have it complying with the Administrative Instructions standards, may preclude any meaningful preliminary examination from being carried out (see Box III Item 2). Refer to Chapter 8 (search stage) and Chapter 9 (examination stage) for discussion of the nucleotide and/or amino acid sequence listings.
- Box IV Lack of unity of invention;
- 12.36 [AU-E-8.5.1] Irrespective of whether an Invitation to Pay Additional Fees (form PCT/ISA/206 at the international search stage) or an Invitation to Restrict or Pay Additional Fees (form PCT/IPEA/405 at the international preliminary examination stage) has been issued, where unity of invention is lacking, this observation must be included in the first written opinion and, if still applicable, in subsequent opinions and the report.
 - Where Claims Are Not Found to Lack Unity of Invention

12.37 A written opinion does not require an observation on lack of unity in Box IV if no lack of unity has been found, except if any entry in Item 1 of Box IV of the IPE has been required to be made (if the unity results from restriction of the claims).

Article 34(3), Rule 70.13

- 12.38 [E-VI-8.7] If the applicant has paid additional fees or has restricted the claims in response to an invitation to do so or if the applicant has failed to respond to the invitation to pay additional fees or restrict the claims (see paragraphs VI-5.5 [XR] to VI-5.9 [XR]), the international preliminary examination report shall so indicate. In addition to the general indication on the first page of the form, the report should also include the indications provided in the supplemental sheet which indicate whether:
 - (i) the claims have been restricted;
 - (ii) additional fees have been paid without protest;
 - (iii) additional fees have been paid by the applicant under protest;
 - (iv) the applicant has neither restricted the claims nor paid additional fees;
- (v) the examiner was of the opinion that the international application did not comply with the requirement of unity of invention but decided not to issue an invitation to restrict the claims or pay additional fees.
- 12.39 In addition, should the international application be restricted to the claims which the applicant chooses as complying with the requirement of unity of invention, or which the examiner considers to be the main invention, the report must indicate which parts of the international application were, and which parts were not, the subject of international preliminary examination (see also paragraph VI-5.6 [XR]).

Rule 68.1, 68.3(c) Section 603

- 12.40 [E-VI-8.8] In the case where the additional fees are paid under protest, the text of the protest, together with the decision thereon, must be annexed to the report if the applicant has so requested (see paragraph VI-5.7 [XR]). Where an indication has been given under paragraph VI-8.7(e) [XR], the examiner must also specify the reasons for which the international application was not considered as complying with the requirement of unity of invention.
- Box V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability and citations supporting such statement;

Article 35(2), Rule 43.5(b), 70.6(a) and (b), 70.7(b), 70.8, Section 503, 611 12.41 [E-VI-8.10] This statement is as to whether the claims appear to satisfy the criteria of

novelty, inventive step (non-obviousness) and industrial applicability (see paragraph VI-1.1 [XR]). The examiner must make this statement in relation to each claim which is to be examined, that is, by the words "YES" or "NO," or their equivalents in the language of the report. Each such statement must be accompanied by relevant citations, explanations and observations, if any (see paragraph VI-5.10 [XR]). If any of the criteria is not satisfied, the statement shall be negative but if any of the criteria taken separately is satisfied, an indication must be given as to the criterion or criteria so satisfied. The examiner should always cite documents believed to support any negative statement with respect to any of the claimed subject matter. The citation of these documents should be in accordance with Section 503.

Rule 43.5(e), 70.7(b), Section 604

- 12.42 [E-VI-8.11] Explanations should clearly indicate, with reference to the cited documents, the reasons supporting the conclusions that any of the said criteria is or is not satisfied. If only certain passages of the cited documents are relevant or particularly relevant, the examiner should identify these, for example, by indicating the page, column or the lines where such passages appear.
- 12.42 Further guidance on the novelty considerations, inventive step consideration and industrial applicability considerations are provided in Chapters 15, 16 and 17 [XR], respectively.
- Box VI Certain documents cited;

Rule 70.7(b), 70.9, Section 507(a)

- 12.43 [E-VI-8.12] If the examiner has discovered or the international search report has cited, a relevant document which refers to a non-written disclosure, and the document was only published on or after the relevant date of the international application, he must indicate in the international preliminary examination report:
 - (i) its nature (by placing the letter "O" next to the citation);
 - (ii) the date on which the document was made available to the public;
 - (iii) the date on which the non-written public disclosure occurred.

Rule 70.7(b), 70.10, Section 507(b)

- 12.44 [E-VI-8.13] The examiner should also mention, as such, any published application or any patent referred to in the report by virtue of Rule 64.3 and should provide for each such published application or patent the following indications:
 - (i) its date of publication;
 - (ii) its filing date, and its claimed priority date (if any);
 - (iii) placing the letter "E" next to the citation.

Rule 70.2(b)

12.45 The report may also indicate that, in the opinion of the International Preliminary Examining Authority, the priority date has not been validly claimed (see also paragraphs VI-6.1 [XR] to VI-6.3 [XR]).

Rule 70.7(b)

- 12.46 [E-VI-8.14] Details concerning the manner of indicating certain other special categories of documents which may be cited in the international preliminary examination report as well as the manner of indicating the claims to which the documents cited in such report are relevant can be found in Sections 507(c), (d) and (e).
- Box VII Certain defects in the international application;

Rule 70.12

12.47 [E-VI-8.15] If, in the opinion of the examiner, defects exist in the form or contents of the international application, the examiner should include this opinion in the written opinion

and/or examination report and also indicate the reasons therefore (see also paragraphs VI-5.10 [XR] and VI-5.12 [XR]).

Box VIII - Certain observations on the international application.

Rule 70.12

12.48 [E-VI-8.15] If, in the opinion of the examiner, observations made as to the clarity of the claims, the description, and the drawings, or the question whether the claims are fully supported by the description, the examiner should include this opinion in the written opinion and/or examination report and also indicate the reasons therefore (see also paragraphs VI-5.10 [XR] and VI-5.12 [XR]).

Certification

Rule 70.3, 70.4, 70.14, Section 612

12.49 [E-VI-8.16] When completing the certification of the international preliminary examination report, the examiner must indicate the date on which the demand for international preliminary examination was submitted and the date on which the report was completed and the name and address of the International Preliminary Examining Authority. These last-mentioned items may either be completed when including the other data or when completing the certification. Every international preliminary examination report must indicate the name of an authorized officer of the International Preliminary Examining Authority responsible for that report.

- Language of the international preliminary examination report and annexes

Rule 48.3(a) and (b), 70.17(a)

12.50 [E-VI-8.17] The international preliminary examination report, together with its annexes, if any, must be in the language in which the international application was published, or, if the international preliminary examination is carried out on the basis of a translation of the international application, in the language of that translation. An international application filed in Chinese, English, French, German, Japanese, Russian or Spanish is published in that language; an international application filed in any other language is published in the language of a translation into one of these languages.

Rule 66.2(*b*)

12.51 [E-VI-5.13 start] For each ground of objection, the first written opinion should indicate the part of the international application which is deficient and the requirement of the PCT which is not met either by referring to specific Articles or Rules, or by other clear explanation; it should also give the reason for any objection.

12.52 [E-VI-5.13 middle] If the cited prior art is such as to demonstrate lack of novelty or inventive step in the main claim or claims, and if consequently there is lack of unity of invention between dependent claims, the applicant should be notified of this situation (see also section III-7 [XR]) in the examiner's first written opinion. If, in the opinion of the examiner, the response of the applicant (see paragraph VI-6.1 [XR]) does not overcome the objection of lack of unity of invention, the examiner thereafter shall adopt the procedure described in paragraphs VI-5.5 [XR] to VI-5.9 [XR].

- Ensuring Report is of Maximal Use for Later Stages

12.53 [E-VI-5.13 end] Substantive matter in the said opinion should normally be set out first. The opinion should be drafted in such a manner as to facilitate further international

preliminary examination of the international application should it be amended, and, in particular, to avoid the need for extensive re-reading should the examiner wish to issue one or more additional written opinions (see paragraphs VI-6.1 [XR] to VI-6.3 [XR]). Although the examiner is not obliged to do so, he should try to indicate to the applicant those amendments which would avoid a negative statement in the international preliminary examination report. In the case of the written opinion of the International Searching Authority, the report should be set out so that it will be easily used by designated Offices in the event that its content is published as an International Preliminary Report on Patentability (Chapter I of the Patent Cooperation Treaty) (see paragraph [XR]).

Invitation to Correct or Amend

Rule 43bis.1(c), 66.2(c) and (d)

- 12.54 [E-VI-5.14, start] The written opinion of the International Searching Authority should include a notification to the applicant that in the event that he demands international preliminary examination he is invited to file with the International Preliminary Examining Authority his observations, to correct any formal deficiencies and otherwise to submit amendments to the description, claims and drawings before the expiration of the time limit within which he may file his demand (see paragraph [XR]).
- 12.55 [E-VI-5.14, middle] Where the written opinion of the International Searching Authority is not treated as the first written opinion under Article 34(2), the first written opinion by the International Preliminary Examining Authority must fix the time limit within which the applicant must reply. The time limit shall be reasonable under the circumstances. It shall normally be two months after the date of the written opinion. In no case shall it be shorter than one month after the said date. It shall be at least two months after the said date where the international search report is transmitted at the same time as the written opinion. In no case shall it be more than three months after the said date.
- 12.56 [E-VI-5.14, end] Failure to reply to the invitation, whether from the written opinion of the International Searching Authority or from a first written opinion actually established by the International Preliminary Examining Authority, may cause the international preliminary examination report to be established with a negative determination in relation to certain claims.

Cases Where Partial Written Opinion or No Written Opinion to Be Established

- 12.57 [Based on start of E-VI-5.15] The statement in paragraph [XR], that the written opinion should cover all the relevant issues [XR] to [XR], only sets out the general rule. There may be cases when either the Authority is not required to perform an international preliminary examination covering the whole of the international application, or else that it is more efficient to defer some matter until later. These may include:
- (i) only inventions which have been searched need be the subject of international preliminary examination (Rule 66.1(e)) and consequently included within the written opinion;
- (ii) cases where the international application relates to subject matter on which the International Preliminary Examining Authority is not required to carry out an international preliminary examination;
 - (iii) cases where the claims lack unity of invention;

- (iv) situations in which a fundamental objection arises, for example, it is clear that certain claims lack novelty and that the claims will have to be drastically recast; or
- (v) where the written opinion is established by the International Preliminary Examining Authority, the applicant may have submitted substantial amendments which add subject matter which goes beyond the disclosure of the international application as originally filed.
- Excluded Subject Matter

Article 34(4)(b), Rule 66.2(a)(i)

12.58 [E-VI-5.11] In the event that the examiner finds that the international application contains subject matter falling within Article 34(4)(a)(i) (that is, subject matter on which the International Preliminary Examining Authority is not required, under Rule 67, to carry out international preliminary examination) or that all the claims of the international application lack compliance with Article 34(4)(a)(ii) (that is, the description, the claims or the drawings are so unclear, or the claims are so inadequately supported by the description that no meaningful opinion can be formed), he will indicate this defect or these defects in his first written opinion and will not go into the question, in that opinion, whether the claimed invention appears to be novel, appears to involve an inventive step and is industrially applicable. Where any such defect affects only some of the claims, a similar approach should be adopted in respect of such claims. These grounds for limiting the scope of the opinion are considered in detail in chapter [XR]. It should be emphasized that, although the first written opinion is drawn up by the International Searching Authority, the conditions which are considered for this purpose are those which would apply to the International Preliminary Examining Authority (though in practice the subject matter on which international preliminary examination is required is the same, for any particular Authority, as that on which an international search report may not be established).

- Lack of Unity of Invention

12.59 The written opinion of the ISA should be established for those inventions for which the international search report is established.

12.60 In the case where the IPEA decides not to accept the written opinion of other ISAs for the purposes of international preliminary examination, it may be appropriate for the IPEA to issue an "Invitation to Restrict or Pay Additional Fees" (form PCT/IPEA/405).

Article 34(3)(c), Rule 68.4, 68.5

12.61 [E-VI-5.6] If the applicant does not comply with the invitation (by not paying the additional fees or by not restricting the claims either sufficiently or at all), the written opinion or international preliminary examination report will have to be established on those parts of the international application which relate to what appears to be the "main invention" and the examiner will then indicate the relevant facts in such report. In cases of doubt as to which is the main invention, the invention first mentioned in the claims should be considered the main invention.

12.62 The issues and processes concerning unity of invention, including payment of additional fees under protest, are covered in more detail in Chapter [XR].

Dealing With Major Objections First

12.63 [E-VI-5.15, end] In the event that a fundamental objection arises, including ones which have been introduced by an improper amendment, it may be more appropriate to deal with this objection before making a detailed international preliminary examination; if, for example, the claims need re-casting, it may be pointless to raise objections to the clarity of some dependent claims or to a passage in the description which may have to be amended or even deleted as a consequence. However, if there are other major objections, these should be dealt with. Generally the examiner should, at the first written opinion stage, seek to make the maximum impact with the broad aim of providing a useful international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty) if the applicant does not demand international preliminary examination and bringing proceedings to a conclusion without any undue delay in order to meet the relevant time limits if international preliminary examination is demanded (see paragraphs VI-3.3 [XR] and VI-3.4 [XR]).

Other Considerations

- Citation of certain documents in the international search report

12.64 [E-VI-7.23] The international search report may cite a document which is not in a working language of the International Searching Authority because the search examiner knows or has strong evidence leading him to suspect (for example, from the drawings, from an abstract, a corresponding patent in a known language, or from a translation produced by some other person familiar with the language of the document) that the document is relevant. The examiner, in his first written opinion, may cite the document on the basis of similar evidence; an abstract or corresponding document in a working language of the International Preliminary Examining Authority, if known to the examiner, will also be cited. If, however, the applicant's response to the first written opinion disputes the relevance of the document and gives specific reasons, the examiner should consider whether, in the light of these reasons and of the other prior art available to him, he is justified in pursuing the matter. If so, he may obtain a translation of the document (or merely the relevant part of it if that can be easily identified). If he remains of the view that the document is relevant, he should consider whether it is necessary to send a copy of the translation to the applicant either with an additional written opinion or by way of an informal communication with the applicant.

- Additional documents taken into consideration in certain cases

Article 33(6)

12.65 [E-VI-7.24] Although, in principle, international preliminary examination is based on the international search report, the examiner should not be deterred from looking for relevant documents which he personally knows, or has reason to suspect, exist, if he can locate such documents in a short time from material available to him. Such documents shall be considered on the same footing as the documents cited in the international search report. If such an additional document is mentioned by the examiner in a written opinion, a copy of the document will be transmitted to the applicant, if the agreement between the International Preliminary Examining Authority and the International Bureau so provides (see paragraph VI-1.2 [XR]).

Contribution to the Art

Article 34(2)(b)

12.66 [E-VI-5.16] When making the full international preliminary examination for the purposes of the first written opinion, the examiner should concentrate on trying to understand what contribution the invention as defined in the claims makes to the prior art. This should normally be sufficiently clear from the international application as filed. If it is not, the applicant should be invited to elucidate the matter (see paragraph III-4.2 [XR]); but the examiner should not raise an objection of this kind unless he is convinced it is necessary, since to do so might result in the applicant introducing additional subject matter going beyond the disclosure in the international application as filed (see paragraph VI-4.11 [XR]).

- Inconsistencies Between Description and Claims

12.67 [E-VI-5.17] While any serious inconsistencies between the claims and description as filed should be objected to (see paragraphs III-4.3 [XR] and III-4.3a [XR]), it should be borne in mind that the claims may also require substantial amendment. In such a situation, the examiner might invite the applicant to amend the description to be in conformity with the final form of the amended claims even though the final form of the main claims may still not be settled. This procedure may help the examiner to expedite the issuance of the international preliminary examination report. However, it should also be appreciated that the applicant should not be put to unnecessary expense and trouble in providing an amended description if there is any likelihood that the claims will have to be changed again.

- Recommending Amendments

12.68 [E-VI-5.18] The examiner should not suggest amendments merely because he thinks they will improve the wording of the description or claims. A pedantic approach is undesirable; what is important is that the meaning of the description and the claims should be clear. It must be emphasized that it is not part of the duty of the examiner to invite the applicant to amend the international application in a particular way to meet an objection, since the drafting of the application is the applicant's responsibility and he should be free to amend in any way he chooses provided that the amendment removes the deficiency and otherwise satisfies the requirements of the PCT. However, it may sometimes be useful if the examiner suggests, at least in general terms, an acceptable form of amendment; but if he does so, he should make it clear that the suggestion is merely for the assistance of the applicant and that other forms of amendment will be considered. The form of the amendment should be as prescribed in Rule 66.8(a).

CHAPTER 13 CLAIMS

[It is necessary to interpret claims the same way when selecting documents to go into the ISR as when producing the written opinions.]

General

Article 3(2)

13.01 [E-III-1.1] The international application must contain "one or more claims."

Article 6

13.02 [E-III-1.2] These must:

- (i) "define the matter for which protection is sought";
- (ii) "be clear and concise";
- (iii) "be fully supported by the description."

13.03 This chapter sets out the appropriate form and content of the claims, together with how they should be interpreted for the purposes of assessing the novelty and inventive step of the inventions which they define, and searching for prior art which may be relevant to making that determination.

Form and content of claims

Rule 6.3(a)

13.04 [E-III-2.1] The claims must be drafted in terms of the "technical features of the invention." This means that claims should not contain any statements relating, for example, to commercial advantages or other non-technical matters, but statements of purpose should be allowed if they assist in defining the invention. It is not necessary that every feature should be expressed in terms of a structural limitation. Since it is a matter for national law, the examiner should normally not object to the inclusion of functional limitations in a claim provided that a person skilled in the art would have no difficulty in providing some means of performing this function without exercising inventive skill or that such means are fully disclosed in the application concerned. A functional limitation must be evaluated and considered, just like any other limitation of the claim, for what it fairly conveys to a person skilled in the art in the context in which it is used. Claims to the use of the invention in the sense of the technical application thereof are permissible. See paragraph 13.20.[XR]

Rule 6.3(b)(ii) and (c), Section 205

13.05 [E-III-2.2] Rule 6.3(b) defines the two-part form which a claim should take "whenever appropriate." The first part should contain a statement indicating the designation of the subject matter of the invention, that is, the general technical class of apparatus, process, etc., to which the claimed invention relates, followed by a statement of those technical features "which are necessary for the definition of the claimed subject matter but which, in combination, are part of the prior art." It is clear from this wording that it is necessary only to refer to those prior art features which are relevant to the invention. For example, if the invention relates to a photographic camera but the claimed inventive step relates entirely to the shutter, it would be sufficient for the first part of the claim to read: "A photographic camera including a focal plane shutter having ..." (here recite the known combination of features which is utilized) and there is no need to refer also to the other known features of a

camera such as the lens and viewfinder. The second part or "characterizing portion" should state the technical features which, in combination with the features stated under the first part (Rule 6.3(b)(i)), it is desired to protect, that is, the features which the invention adds to the prior art. If the international search report, or any additional documents considered to be relevant in accordance with Article 33(6), reveal that any feature in the second part of the claim was, in fact, already known in combination with all the features in the first part of the claim and in that combination have the same effect as they have in the full combination according to the claimed invention, the examiner may invite the applicant to transfer such feature or features to the first part. Where, however, a claim relates to a novel combination, and where the division of the features of the claim between the prior art part and the characterizing part could be made in more than one way without inaccuracy and if the division of the features chosen by the applicant is not incorrect, the examiner should take no action. If the examiner, in the first written opinion, invites the applicant to adopt a different division but the applicant does not follow the invitation, the examiner should not pursue the matter further since the manner of claiming is a matter for national laws of designated/elected States. Section 205 provides the applicant and the International Searching Authority/International Preliminary Examining Authority with the necessary instructions for numbering of claims upon their amendment.

- 13.06 [E-III-2.3] The applicant may be invited to follow the above two-part formulation where, for example, it is clear that applicant's invention resides in a distinct improvement in an old combination of parts or steps. However, as is indicated by Rule 6, this form need only be used in appropriate cases. The nature of the invention may be such that this form of claim is unsuitable, for example, because it would give a distorted or misleading picture of the invention or the prior art. Examples of the kind of invention which may require a different presentation are:
- (i) the combination of known elements or steps of equal status, the inventive step lying solely in the combination;
- (ii) the modification of, as distinct from addition to, a known chemical process, for example, by omitting one substance or substituting one substance for another; and
- (iii) a complex system of functionally interrelated parts, the inventive step concerning changes in several of these parts or in their interrelationships.
- 13.07 In examples (i) and (ii), the two-part form of claim according to Rule 6.3(b) may be artificial and inappropriate, whereas, in example (iii), it might lead to an inordinately lengthy and involved claim. Another example in which the two-part form of claim provided for in Rule 6.3(b) may sometimes be inappropriate is where the claimed invention is a new chemical compound or group of compounds that does not fall within a known class. It is also likely that other cases will arise in which it will be appropriate to formulate the claim in a different form.
- 13.08 [E-III-2.3a] When examining whether or not a claim is to be put in the two-part form provided by Rule 6.3(b), it is important to assess whether this form is "appropriate." In this respect, it should be borne in mind that the purpose of the two-part form of claim is to allow the reader to see clearly which features necessary for the definition of the claimed subject matter are, in combination, part of the prior art. If this is sufficiently clear from the indication of prior art provided in the description, to meet the requirement of Rule 5.1(a)(ii), the two-part form of claim need not be required.

Rule 11.10(a), (b) and (c)

13.09 [E-III-2.4] The claim, as well as the description, "may contain chemical or mathematical formulae" but not drawings. "Any claim may contain tables" but "only if the subject matter of the claim makes the use of tables desirable." In view of the use of the word "desirable," the examiner should not object to the use of tables in claims where this form is convenient.

Rule 6.2(*a*)

13.10 [E-III-4.10] The claims must not, in respect of the technical features of the invention, rely on references to the description or drawings "except where absolutely necessary." In particular, they must not normally rely on references such as: "as described in part ... of the description" or "as illustrated in Figure 2 of the drawings." The emphatic wording of the excepting clause should be noted. Thus, the applicant should be invited to show that it is "absolutely necessary" to rely on reference to the description or drawings in appropriate cases. An example of an exception would be that in which the invention as claimed involved some peculiar shape illustrated in the drawings but which could not be readily defined either in words or by a simple mathematical formula. Another special case is that in which the invention relates to chemical products whose features can be defined only by means of graphs or diagrams.

Rule 6.2(*b*)

13.11 [E-III-4.11] If there are drawings and the technical features of the claims would be rendered more intelligible by relating those features to the corresponding features of the drawings, this should preferably be done by placing the appropriate reference signs in parentheses after the features in the claims. This should be done in both parts of claims having the preferred form specified in Rule 6.3(b). These reference signs are not, however, to be construed as limiting the scope of a claim, but merely as aids to an easier understanding of the defined subject matter.

Kinds of claim

Categories

Rule 13. Section 206. Als. Annex B

13.12 [E-III-3.1] There are two basic kinds of claim, viz., claims to a physical entity (product, apparatus) and claims to an activity (process, use). The first basic kind of claim ("product claim") includes a substance or composition (for example, chemical compound or a mixture of compounds) as well as any physical entity (for example, object, article, apparatus, machine, or system of cooperating apparatus) which is produced by a person's technical skill. Examples are "steering mechanism incorporating an automatic feedback circuit ...;" "a woven garment comprising ...;" "an insecticide consisting of X, Y, Z;" or "a communications system comprising a plurality of transmitting and receiving stations." The second basic kind of claim ("process claim") is applicable to all kinds of activities in which the use of some material product for effecting the process is implied; the activity may be exercised upon material products, upon energy, upon other processes (as in control processes) or upon living things (see, however, paragraphs 20.04 – 20.06 [XR]).

13.13 [E-III-3.2] It should be noted that claims which are worded differently may, in reality, have effectively the same scope. It is permitted to include such claims in the same international application provided that they comply with the requirement of Rule 13.1 (see Chapter 21)[XR]. The examiner should bear in mind that the presence of such different claims may assist an applicant in later obtaining full protection for the invention in all the

designated/elected States since infringement of a patent is dealt with by national law. Consequently, while the examiner should draw attention to an unnecessary proliferation of independent claims (see paragraph 13.42[XR]), he should not adopt an over-academic or rigid approach to the presence of a number of claims which are differently worded but apparently of similar effect.

13.14 [E-III-3.3] Rule 13.3 states that "the determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim." This means that while the examiner should take exception to an unnecessary proliferation of independent claims, the examiner should not take exception to two or more independent claims in the same category, provided that there is a unifying inventive concept and that the claims as a whole satisfy the requirement of Article 6 that they should be "concise" (see paragraph 13.42)[XR]. In applying this principle, the examiner should have regard to the remarks made in paragraph 13.12 [XR] concerning claims of apparently similar scope. [There are several additional] [However there are other] circumstances where it may not be appropriate to cover the subject matter of an invention by a single independent claim in a particular category, for example, (1) where the invention relates to an improvement in two separate but interrelated articles which may be sold separately, such as an electric plug and socket or transmitter and receiver, (2) where an invention is concerned with electrical bridgerectifier circuits, it might be necessary to include separate independent claims to a singlephase and to poly-phase arrangements incorporating such circuits since the number of circuits needed per phase is different in the two arrangements, (3) where the invention resides in a group of new chemical compounds and there are a number of processes for the manufacture of such compounds.

Independent and dependent claims

Rule 13.4

13.15 [E-III-3.4] All international applications will contain one or more independent main claims directed to the essential features of the invention. Any such claim may be followed by one or more claims concerning specific forms of that invention. It is evident that any claim relating to a specific form must effectively include also the essential features of the invention, and hence must include all the features of at least one independent claim. The specific forms should be construed broadly as meaning any more specific definition or specifically different embodiments of the invention than that set out in the main claim or claims. It should be noted that, subject to Rule 13.1, it is permitted to include a reasonable number of dependent claims claiming specific forms of the claimed invention in the independent claim, even where the features of any dependent claim could be considered as constituting in themselves an invention.

Rule 6.4(a) and (b), 66.2(a)

13.16 [E-III-3.5] Any dependent claim must include a reference to the claim from which it depends, and must be construed as including all the limitations contained in the claim to which it refers. Such a claim which refers to more than one other claim shall refer to them only alternatively. Multiple dependent claims cannot form a basis for other multiple dependent claims. Claims may be drafted in a manner different from that provided in the two preceding sentences, in particular, if the national law of the national Office acting as the International Searching Authority/International Preliminary Examining Authority allows multiple dependent claims to be drafted in such a different manner. A multiple dependent

claim includes all the limitations contained in the particular claim in relation to which it is considered.

Rule 6.4(c)

- 13.17 [E-III-3.6] All dependent claims, however referred back, should be grouped together to the extent and in the most practical way possible. The arrangement must therefore be one which enables the association of related claims to be readily determined and their meaning in association to be readily construed. The examiner should invite the applicant to submit a suitable amendment if the arrangement of claims is such that it creates obscurity in the definition of the subject matter to be protected.
- 13.18 [E-III-3.7] A claim, whether independent or dependent, can contain alternatives, provided those alternatives are of a similar nature and can fairly be substituted one for another, and provided also that the number and presentation of alternatives in a single claim does not make the claim obscure or difficult to construe (see also paragraph 21.06 [XR]).
- 13.19 [E-III-3.8] A claim may also contain a reference to another claim even if it is not a dependent claim as defined in Rule 6.4. One example of this is a claim referring to a claim of a different category (for example, "Apparatus for carrying out the process of Claim 1 ...," or "Process for the manufacture of the product of Claim I ..."). Similarly, in a situation like a plug and socket example [XR], a claim to the one part referring to the other cooperating part, for example, "plug for cooperation with the socket of Claim 1 ...") is not a dependent claim.

Interpretation of claims

Article 6

13.20 [E-III-4.2] Each claim should be read giving the words the meaning and scope which they normally have in the relevant art, unless in particular cases the description gives the words a special meaning, by explicit definition or otherwise. Where the description provides a special meaning by way of, for example, defining a term appearing in the claim, the description should be used for the interpretation of the claim. [The claims should not be limited in their meaning by what is explicitly disclosed in the description and drawings. The claims should not be limited by the scope of the examples of the claimed invention contained in the description. Further, if the wording of the claims needs interpretation, the description and the drawings, and the general knowledge of a person skilled in the art on the filing date shall be taken into account.] [Moreover, if such a special meaning applies, the examiner should, so far as possible, require the claim to be amended whereby the meaning is clear from the wording of the claim alone. The claim should also be read with an attempt to make technical sense out of it. Such a reading may involve a departure from the strict literal meaning of the wording of the claims.]

"Use" Claims

13.21 [E-III-4.9] For the purposes of international search and examination, a "use" claim of a form such as "the use of substance X as an insecticide" should be regarded as equivalent to a "process" claim of the form "a process of killing insects using substance X." (However, it should be noted that in certain designated/elected States, "use of" claims are considered for the purposes of the national law to be improper process claims which lack clarity and constitute excluded subject matter.) Thus a claim of the form indicated should not be interpreted as directed to the substance X recognizable (for example, by further additives) as intended for use of an insecticide. Similarly, a claim for "the use of a transistor in an amplifying circuit" would be equivalent to a process claim for the process of amplifying,

using a circuit containing the transistor and should not be interpreted as being directed to "an amplifying circuit in which the transistor is used," nor to "the process of using the transistor in building such a circuit."

Preamble

[13.22 The effect of the preamble on the evaluation of the elements of a claim for search and examination purposes should be determined on a case by case basis in light of the facts in each case. If the claim preamble, when read in the context of the entire claim, recites limitations of the claim, then the claim preamble should be construed as if in the balance of the claim. Any terminology in the preamble that limits the structure of the claimed invention must be treated as a claim limitation. If the preamble merely states, for example, the purpose or intended use of the invention, rather than any distinct definition of any of the claimed invention's limitations, then the preamble is not considered a limitation and is of no significance to claim construction. During search and examination, statements in the preamble reciting the purpose or intended use of the claimed invention must be evaluated to determine whether the recited purpose or intended use results in a structural difference (or, in the case of process claims, a difference in process steps) between the claimed invention and the prior art. If so, the recitation serves to limit the claim. In two-part claims as defined in Rule 6.3(b), the preamble is regarded as a limitation on the scope of the claim.]

13.23 [E-III-4.8] If a claim commences with such words as "Apparatus for carrying out the process, etc.,...," this must be construed as meaning merely apparatus suitable for carrying out the process. An apparatus which otherwise possesses all of the features specified in the claim, but which would be unsuitable for the stated purpose or which would require modification to enable it to be so used, should not normally be considered as coming within the scope of the claim. For example, a claim recites a machine for cutting meat comprising apparatus limitations. The claim language "machine for cutting meat" sets forth only the function of the apparatus (that is, for cutting meat) without any positive structural limitations. Such language would not be given any weight in assessing novelty and inventive step as long as the prior art cutting machine was capable of cutting meat. In this case, one should treat the words "for cutting meat" merely as limitation to a machine adapted to cut meat. Thus, one would look to the prior art to see whether the cutting machine would be inherently capable of cutting the meat, whether or not the prior art description specified what material is cut by the machine. Similar considerations apply to a claim for a product for a particular use. For example, if a claim refers to "mold for molten steel," this implies certain limitations for the mold. Therefore, a plastic ice cube tray with a melting point much lower than that of steel would not come within the claim. Similarly, a claim to a substance or composition for a particular use should be construed as meaning a substance or composition which is in fact suitable for the stated use; a known product which is per se the same as the substance or composition defined in the claim, but which is in a form which would render it unsuitable for the stated use, would not deprive the claim of novelty.

Open and Closed Claims

13.24 [S-III-3.12] In evaluating novelty or inventive step, the examiner should consider which type of the transition phrase, such as "consisting of," "comprising," "characterized by," or "consisting essentially of" is used in the claims. The subject matter to be searched depends on the type of transition phrase used.

- (a) Where a claim is drafted using a "closed" type of transition phrase, the claim cannot be construed as including products or processes that include structural elements or process steps other than those set forth in the claim. For example, if a claim recites "a product consisting only of A, B and C," it cannot be construed as including, and is novel over, prior art that discloses a product having A, B, C and D, or any other additional feature or elements.
- (b) Where a claim is drafted using an "open" type of transition phrase, it can be construed as including products or processes that include non-recited structural elements or process steps. For example, if a claim recites "a product comprising A, B and C," it can be construed as including, and lacks novelty over, prior art that discloses a product having A, B, C and D, as well as any additional feature or element.
- (c) Where a claim is drafted using "consisting essentially of" as the transition phrase, the claim occupies a middle ground between closed claims that are written in a closed format and fully open claims. The transitional phrase "consisting essentially of" limits the scope of a claim to the specified materials or steps "and those that do not materially affect the basic and novel characteristic(s)" of the claimed invention. For the purposes of search and examination, absent a clear indication in the description or claims of what the basic and novel characteristics actually are, "consisting essentially of" will be construed as equivalent to open (e.g., "comprising") language.

- Means Plus Function Claims

13.25 [S-III-3.13] Where a limitation in the claim defines a means or a step in terms of its function or characteristics without specifying the structure or material or act in support thereof, such a limitation should be construed as defining any structure or material or act which is capable of performing the defined function or which has the defined characteristics, unless the means are further specified in the claim. If the means are further specified, the claim would be interpreted to include those further specified limitations. For example, if a claim recites valve means for restricting the flow of fluid, it would be interpreted by the examiner to include the further specified limitation of a valve means rather than any means for restricting flow of fluid. As another example, a claim aimed at "a building material incorporating a layer which insulates heat" should be interpreted as a building material incorporating any "product" that is "a layer which insulates heat." It should be noted, however, that the issues of whether such means-plus-function claims are clear and concise or not and whether the disclosure of the claimed invention is sufficient for a person skilled in the art or not should be determined separately.

Product by Process Claims

13.26 [S-III-3.15] Where a claim defines a product in terms of the process by which the product is made, such a claim should be construed as a claim to the product *per se* [that possesses the characteristics derived from the manufacturing process stated in the claim. Therefore, the patentability of a product defined by a product-by-process claim does not depend on its method of production.] A product is not rendered novel merely by the fact that it is produced by means of a new process. [If the product in such a claim is the same as, or obvious from, a product described in an item of prior art, the claim is unpatentable even though the product described in the item of prior art was made by a different process.] [A claim defining a product in terms of a process is to be construed as a claim to the product as such and the claim should preferably take the form "Product X obtainable by process Y", or any wording equivalent thereto, rather than "Product X obtained by process Y".]

13.27 [S-III-3.16] Where a product can only be defined by the process steps by which the product is made, or where the manufacturing process would be expected to impart distinctive characteristics on the final product, the examiner would consider the process steps in determining the subject of the search and assessing patentability over the prior art. For example, a claim recites "a two-layer structured panel which is made by welding together an iron sub-panel and a nickel subpanel." In this case, the process of "welding" would be considered by the examiner in determining the subject of the search and in assessing patentability over the prior art since the process of welding produces physical properties in the end product which are different from those produced by processes other than welding; that is, the product can only be defined by the process step. Novelty of the claim is not brought into question unless an identical two-layer structural panel made by means of welding is discovered in the prior art.

- Product Limitations in Process Claims

13.28 [S-III-3.18] Product limitations that appear in process claims must be taken into account for search and examination purposes. See paragraph 13.21 [XR] for the effect of the preamble on claim interpretation.

Inconsistency Between Claims and Description

13.29 [E-III-4.3] Where there is any serious inconsistency between claims and description, amendments to remove this should be invited from the applicant. For example, the description may state, or may imply, that a certain technical feature not mentioned in the claims is essential to the performance of the invention. In such a case, the examiner should invite amendment of the claims to include this feature. However, if the applicant can show convincingly by way of response that it would be clear to a person skilled in the art that the description was incorrect in suggesting that the feature in question was essential, amendment of the description should be invited instead. Another form of inconsistency is that in which the description and drawings include one or more embodiments of the invention which appear to fall outside the subject matter covered by the claims (for example, the claims all specify an electric circuit employing electronic tubes and one of the embodiments employs semiconductors as an alternative). Here again the applicant should be invited to amend the claim or the description and drawings to remove the inconsistency and thus avoid any possible uncertainty which could arise later as to the meaning of the claims. However, inconsistencies which do not cause doubt as to the meaning of the claims may be overlooked.

13.30 [E-III-4.3a] General statements in the description which imply that the extent of protection may be expanded in some vague and not precisely defined way should be objected to. In particular, objection should be raised to any statement which refers to the extent of protection being expanded to cover the "spirit" of the invention; objection should likewise be raised in the case where the claims are directed to a combination of features, to any statement which seems to imply that protection is nevertheless sought not only for the combination as a whole but also for individual features or sub-combinations thereof.

Clarity

13.31 [E-III-4.1] The requirement that the claims shall be clear applies to individual claims and also to the claims as a whole. The clarity of the claims is of the utmost importance for the purposes of formulating an opinion on the questions whether the claimed invention appears to be novel, to involve an inventive step and to be industrially applicable in view of their

function in defining the matter for which protection is sought. Therefore the meaning of the terms of a claim should, as far as possible, be clear for the person skilled in the art from the wording of the claim alone (see also paragraph 13.19)[XR]. In view of the differences in the scope of protection which may be attached to various categories of claims, the examiner should ensure that the wording of a claim leaves no doubt as to its category (see paragraph 13.11)[XR].

[13.32 Each claim must set forth the scope of the invention sought to be protected with a reasonable degree of clarity. Clarity of claim language must be analyzed in light of the content of the particular application disclosure, the teachings of the prior art, and the claim interpretation that would be given by the person skilled in the art at the time the invention was made. If a person skilled in the art can determine the boundaries of the claimed invention with a reasonable degree of certainty, the claim complies with the requirement for clarity. Breadth of a claim is not to be equated with lack of clarity. If the scope of the subject matter embraced by the claims is clear, and if applicants have not otherwise indicated that they intend the invention to be of a scope different from that defined in the claims, then the claims comply with the requirement for clarity.]

13.33 [E-III-4.4] An independent claim should clearly specify all of the essential features needed to define the invention except insofar as such features are implied by the generic terms used, for example, a claim to a "bicycle" does not need to mention the presence of wheels. If a claim is to a process for producing the product of the invention, then the process as claimed should be one which, when carried out in a manner which would seem reasonable to a person skilled in the art, necessarily has as its end result that particular product; otherwise, there is an internal inconsistency and therefore lack of clarity in the claim. In the case of a product claim, if the product is of a well-known kind and the invention lies in modifying it in a certain respect, it is sufficient if the claim clearly identifies the product and specifies what is modified and in what way. Similar considerations apply to claims for an apparatus.

- Clarity of Relative Terms

13.34 [E-III-4.5] A claim should not include vague or equivocal forms of wording which leave the reader in doubt as to the scope of a feature. It is preferable not to use a relative or similar term such as "thin", "wide" or "strong" in a claim unless the term has a well-recognized meaning in the particular art, e.g. "high-frequency" in relation to an amplifier, and this is the meaning intended. If a term of degree appears in a claim, the examiner should determine whether one skilled in the art would be apprised of the meaning of the term either by a disclosure of a standard for measuring that degree in the description or in view of the prior art and state of the art. It may be appropriate to invite the applicant to either define or excise the term if applicant could do so without extending the subject matter beyond the content of the application as filed in contravention of Article 19(2) or 34(2)(b). An applicant cannot rely on an unclear term to distinguish the claimed invention from the prior art.

13.35 [E-III-4.7] The area defined by the claims must be as precise as the invention allows. As a general rule, claims which attempt to define the invention, or a feature thereof, by a result to be achieved should be objected to. However, no objection should be raised if the invention can only be defined in such terms and if the result is one which can be achieved without undue experimentation (see paragraph 13.43) [XR], e.g., directly and positively verified by tests or procedures adequately specified in the description and involving nothing more than trial and error. For example, the invention may relate to an ashtray in which a smouldering cigarette end will be automatically extinguished due to the shape and relative dimensions of

the ashtray. The latter may vary considerably in a manner difficult to define whilst still providing the desired effect. So long as the claim specifies the construction and shape of the ashtray as clearly as possible, it may define the relative dimensions by reference to the result to be achieved, provided that the specification includes adequate directions to enable the reader to determine the required dimensions by routine test procedures.

13.36 Where the invention relates to a chemical compound, it may be characterized in a claim in various ways, viz., by its chemical formula, as a product of a process or by its parameters. [Characterization of a chemical compound solely by its parameters may be appropriate in those cases where the invention cannot be adequately defined in any other way.] This can arise, for example, in the case of macromolecular chains. But in such cases, only parameters usual in the art should be employed to characterize the compound. The examiner should be aware of the possibility that applicants may attempt to employ unusual parameters to disguise lack of novelty (see paragraph 15.06[XR]).

13.37 [E-III-4.8a] Where a claim for an apparatus or a product seeks to define the invention by reference to features of the use to which the apparatus or product is to be put, a lack of clarity can result. This is particularly the case where the claim not only defines the product itself but also specifies its relationship to a second product which is not part of the claimed invention (for example, a cylinder head for an engine, where the former is defined by features of where it is connected in the latter). Such a claim must either set forth a clear definition of the individual product being claimed by wording the claims appropriately (for example, by substituting "connectable" for "connected"), or be directed to a combination of the first and second products (for example, "engine with a cylinder head" or "engine comprising a cylinder head"). It may also be permissible to define the dimensions and/or shape of a first product in an independent claim by general reference to the dimensions and/or corresponding shape of a second product that is not part of the claimed first product but is related to it through use (for example, in the case of a mounting bracket for a vehicle number-plate, where the bracket frame and fixing elements are defined in relation to the outer shape of the number-plate).

13.38 [E-III-4.5a] Particular attention is required whenever the word "about" or similar terms, such as "approximately," are used. Such a word may be applied, for example, to a particular value (for example, "about 200°C") or to a range (for example, "about X to about Y"). In each case, the examiner should use the examiner's judgment as to whether the meaning is sufficiently clear in the context of the application read as a whole. Moreover, if such words as "about" prevent the invention from being unambiguously distinguished from the prior art, an objection should be raised as to lack of novelty or inventive step.

Clarity of Other Terms

13.39 [E-III-4.5b] The examiner should invite the applicant to remove trademarks and similar expressions in claims, unless their use is unavoidable; they may be allowed exceptionally if they are generally recognized as having a precise meaning (see also paragraph 13.33[XR]).

13.40 [E-III-4.6] Expressions like "preferably," "for example," "such as" or "more particularly" should be looked at carefully to ensure that they do not introduce ambiguity. The examiner should regard expressions of this kind as having no limiting effect on the scope of a claim; that is to say, the feature following any such expression should be regarded as entirely optional.

13.41 [E-III-4.12] Generally, the subject matter of a claim is defined by means of positive features. However, the extent of a claim may be limited by means of a "disclaimer"; in other words, an element clearly defined by technical features may be expressly excluded from the protection claimed, for example in order to meet the requirement of novelty. [A claim may also include a negative limitation or language that defines subject matter that is not present in the claimed invention (for example, "wherein the composition is free of water").] A disclaimer [or negative limitation] should only be used only when the claim's remaining subject matter cannot be defined more clearly and concisely by means of positive features.

Conciseness, number of claims

Rule 6.1(a)

13.42 [E-III-5.1] The requirement that the claims shall be concise refers to the claims in their entirety as well as to the individual claims. For example, undue repetition of words or a multiplicity of claims of a trivial nature which render it unduly burdensome to determine the matter for which protection is sought, could be considered as not complying with this requirement. Furthermore, the number of alternatives presented within a single claim should not make it unduly burdensome to determine the subject matter for which protection is sought.

Support in description

Article 6

13.43 [E-III-6.1] The claims "shall be fully supported by the description." This means that there must be a basis in the description for the subject matter of every claim and that the scope of the claims must not be broader than is justified by the description and drawings.

Clear and complete description of claimed invention

Article 5

- 13.44 The subject matter of each claim must be supported by the description and drawings "in a manner sufficiently clear and complete for the invention to be carried out by a person skilled in the art." The disclosure of the claimed invention shall be considered sufficiently clear and complete if it provides information which is sufficient to allow the invention to be carried out by a person skilled in the art as of the filing date, without undue experimentation.
- 13.45 The description is aimed at a person skilled in the art. See paragraph 16.09. [XR] This person shall, if necessary, use its general knowledge to supplement the information contained in the application. The description must be sufficient to carry out the invention on the basis of the knowledge of a person skilled in the art at the time of the filing date, not at the time of the search and examination. Although a reasonable amount of trial and error is permissible, a person skilled in the art must, on the basis of the disclosure of the claimed invention and the general knowledge, be able to carry out the invention without "undue experimentation." This is applicable particularly in the field of unexplored technologies.
- 13.46 Factors to be considered in determining whether undue experimentation is needed to carry out the claimed invention include:
 - (i) the breadth of the claims;
 - (ii) the nature of the invention;

- (iii) the general knowledge of a person skilled in the art;
- (iv) the level of predictability in the art;
- (v) the amount of direction provided in the application, including references to prior art; and
- (vi) the amount of experimentation required to carry out the claimed invention on the basis of the disclosure.
- 13.47 The breadth of the claims is relevant to the determination of undue experimentation, since a person skilled in the art must be able to make and use the entire scope of the claimed invention. For example, the applicant is not entitled to claim everything within the scope of the invention, if the application only discloses how to carry out part of the claimed invention.
- 13.48 The nature of the claimed invention, i.e., the subject matter to which the claimed invention pertains, is essential to determine the general knowledge of a person skilled in the art and the state of the art. For example, if the selection of the values for various parameters is a matter of routine for a person skilled in the art, such a selection may not be considered as requiring undue experimentation.
- 13.49 "The amount of direction provided in the application" refers to the information explicitly or implicitly contained in the description, claims and drawings, including working examples and references to other applications or documents. The more that is known in the prior art by a person skilled in the art about the nature of the invention and the more the art is predictable, the less information in the application itself is needed in order to carry out the claimed invention. For example, there is predictability in the art if a person skilled in the art can readily anticipate the effect of a feature of the claimed invention.
- 13.50 In addition to the time and expenses needed for carrying out the experimentation, the character of the experimentation, for example, whether it constitutes merely routine work or goes beyond such routine, should also be considered.

Sufficiency Commensurate in Scope with the Claims

- 13.51 [E-III-6.2] Most claims are generalizations from one or more particular examples. The extent of generalization permissible is a matter which the examiner must judge in each particular case in the light of the relevant prior art. An appropriate claim is one which is not so broad that it goes beyond the invention nor yet so narrow as to deprive the applicant of a just reward for the disclosure of applicant's invention. Obvious modifications and uses of and equivalents to that which the applicant has described should not be questioned. In particular, if it is reasonable to predict that all the variants covered by the claims have the properties or uses the applicant ascribes to them in the description, it is proper for the applicant to draft the claims accordingly.
- 13.52 [E-III-6.3] As a general rule, a claim should be regarded as supported by the description unless, exceptionally, there are well-founded reasons for believing that the person skilled in the art would be unable, on the basis of the information given in the application as filed, to extend the particular teaching of the description to the whole of the field claimed by using routine methods of experimentation or analysis. Support must, however, be of a technical character; vague statements or assertions having no technical content provide no basis. The examiner should raise an objection of lack of support only if the examiner has well-founded

reasons. Where objection is raised, the reasons should where possible be supported specifically by a published document.

13.53 [E-III-6.4] A claim in generic form, that is, relating to a whole class, for example, of materials or machines, may be acceptable even if of broad scope, if there is fair support in the description and there is no reason to suppose that the invention cannot be carried out through the whole of the field claimed. Where the information given appears insufficient to enable a person skilled in the art to extend the teaching of the description to parts of the field claimed but not explicitly described by using routine methods of experimentation or analysis, the examiner should invite the applicant to establish, by suitable response, that the invention can in fact be readily applied on the basis of the information given over the whole field claimed or, failing this, to restrict the claim to accord with the description. An example of this might be a claim to a specified method of treating "synthetic resin moulding" to obtain certain changes in physical characteristics. If all of the examples described related to thermoplastic resins, and the method was such as to appear inappropriate to thermosetting resins, then limitation of the claims to thermoplastic resins might be necessary to comply with the sufficiency requirement.

Relationship of Claims to Disclosure

13.54 The claimed invention must be fully supported by the description and drawings, thereby showing that the applicant only claims subject matter which he had recognized and described on the filing date.

13.55 The claims are not consistent and not commensurate with the description and drawings if, after reading the application, the claimed invention is still not at the disposal of a person skilled in the art, because the essential element for the function or operation of the invention is missing from the claim. For example, consider a claim that relates to improved fuel oil compositions which have a given desired property. The description provides support for one way of obtaining fuel oils having this property, which is by the presence of defined amounts of a certain additive. No other ways of obtaining fuel oils having the desired property are disclosed. If the claim makes no mention of the additive, the claim is not fully supported by the description. Another example would consist in the claim not being consistent with the disclosure, for instance, due to contradictions between the elements contained in the claims and the description. One other example would be that, having regard to the description and the drawings, the scope of the claims covers an area which was not recognized by the applicant, for example, mere speculation of possibilities that have not been explored yet.

13.56 [E-III-6.5] A claim may broadly define a feature in terms of its function, even where only one example of the feature has been given in the description, if the person skilled in the art would appreciate other means that could be used for the same function. For example, "terminal position detecting means" in a claim might be supported by a single example comprising a limit switch, it being apparent to the person skilled in the art that, for example, a photoelectric cell or a strain gauge could be used instead. In general, however, if the entire contents of the application are such as to convey the impression that a function is to be carried out in a particular way, with no intimation that alternative means are envisaged, and a claim is formulated in such a way as to embrace other means, or all means, of performing the function, then the claim does not comply with the support requirement. Furthermore, it may not be sufficient if the description merely states in vague terms that other means may be adopted, if it is not reasonably clear what they might be or how they might be used.

- [13.57 [E-III-4.7a] Characterization of a chemical compound solely by its parameters may be appropriate in certain cases (see paragraph 13.36 [XR]). Characterization of a chemical compound by its parameters is acceptable and fully supported by the description only when the invention is described by sufficient relevant identifying characteristics which provide evidence that applicant recognized and described the claimed invention at the time of filing, such as by a description of partial structure, physical and/or chemical properties, functional characteristics when coupled with a known or disclosed correlation between structure and function, or a combination of these characteristics.]
- 13.58 Where the claim is too broad to be supported by the description and drawings, the disclosure may also be insufficient to enable a person skilled in the art to carry out the claimed invention. Therefore, in that case, there may be non-compliance with both the requirement concerning the relationship of the claims to the disclosure under this paragraph and the sufficiency requirement.

New matter

- 13.59 [E-III-6.6] Where subject matter is disclosed in a claim of the application as filed, but is not mentioned anywhere in the description, it is permissible to amend the description so that it includes this subject matter as disclosed in that claim. However, consideration would still need to be given as to whether the description as amended provides the required support for the claims.
- 13.60 An amendment to the claims or the addition of a new claim must be supported by the description of the invention as originally filed[, and each claim limitation must be explicitly or inherently supported in the originally filed disclosure]. See paragraphs 10.35 et seq. [XR] for a discussion of what constitutes matter that goes beyond the description as originally filed.

[Deposit of Biologically Reproducible Material

- 13.61 Where the application refers to biologically reproducible material which cannot otherwise be described in the application to meet the enablement and support requirements of Articles 5 and 6, those requirements shall be considered to be complied with by a deposit of such material.
- 13.62 The deposit shall be considered part of the description to the extent that the requirements regarding sufficiency of description under Article 5 and the support requirement of Article 6 cannot otherwise be complied with so that it would be taken into account in determining the compliance with such requirements. Therefore, mere reference to the deposited material in an application cannot simply replace the disclosure of such material in the application in order to comply with those requirements. It should be noted, however, that a reference to the deposit in the application would not create the presumption that the deposit is necessary or required to comply with those requirements.]

CHAPTER 14 PRIOR ART

[Generally a combination of ISG section VI and IPEG section IV-5, parts defining prior art. Parts of ISG section VI defining novelty, inventive step and how to display different categories of documents go elsewhere.]

Prior Art Generally

Article 33(2); Rule 33.1

14.01 [E-IV-5.1, equivalent to S-VI-1.1 – 1.3] The prior art for the purposes of assessing the novelty (see Chapter 15) and inventive step (whether or not the invention is obvious; see Chapter 16) of an invention is defined as "everything made available to the public anywhere in the world by means of written disclosure (including drawings and other illustrations)" before the "relevant date". The scope of this definition should be noted. There are no restrictions whatsoever as to the geographical location where, or the language or manner (including written disclosure posted on the Internet or an on-line database) in which, the relevant information contained in the written disclosure was made available to the public. There are no restrictions as to the age of the prior art document (whether it is 100 years old or was published one day prior to the "relevant date") so long as the document was made available to the public before the "relevant date." If applicant makes an admission, the subject matter mentioned in the admission (e.g., a figure in an international application labeled as "prior art") may constitute prior art.

Date of Disclosure

Rule 33.1, 43bis.1, 64.1

14.02 It should be noted that the definition of relevant prior art for purposes of international search report is different from the definition of relevant prior art for other purposes, including the written opinion established by the International Searching Authority because "relevant date" is defined differently for international search report purposes and for written opinion and IPE purposes.

- Relevant Date for International Search Report Purposes

14.03 Rule 33.1 makes it clear that potentially relevant disclosures should be included in the international search report "provided that the making available to the public occurred prior to the international filing date." Rule 33.1 defines "relevant date" as the international filing date of the international application. This ensures that the international search report provides information which will be complete even if national authorities disagree with the examiner's opinion on the validity of the priority claim.

Relevant Date for Written Opinion and IPE Purposes

14.04 For the purposes of the written opinion and international preliminary examination, Rule 64.1 defines the relevant date as:

(i) the international filing date of the international application under international preliminary examination (or for which a written opinion is being established by the International Searching Authority); or

(ii) where the international application under international preliminary examination validly claims the priority of an earlier application, the filing date of such earlier application.

14.05 Clearly, when a potentially relevant document has been published between a claimed priority date of the application and its international filing date, the examiner is required to consider whether the claimed priority date is valid for the purposes of determining the "relevant date" of the claims in the international application. [Note: If there is time left for applicant to perfect/correct/add the priority claim but there is insufficient time for the examiner to make a proper determination as to whether the priority claim is valid, due to the need to issue a timely written opinion by the international searching authority, the "relevant date" for the purposes of the written opinion will be based on the international filing date and not the priority date. (See paragraphs 12.25(b) and 18.17)[XR]]

Documents Casting Doubt on Priority Claim Made in the International Application

14.06 [S-VI-4.3] Documents showing that a priority claim in the international application might not be justified (for example, an earlier application or patent resulting therefrom, by the same applicant, indicating that the application from which priority is claimed may not be the first application for the invention concerned) should be mentioned in the international search report and explained in the relevant portion of the written opinion. No special search should normally be made by the International Searching Authority to determine whether the priority claim made in the international application is justified except when there is a special reason to do so, for example, when the priority application is a "continuation-in-part" of an earlier application from which no priority is claimed; also sometimes the fact that the country of residence of the applicant is different from the country of the priority application may be an indication of possible lack of first filing, justifying a certain extension of the international search.

Documents Not Within the Prior Art Which May Nevertheless be Relevant

- Later Published Patent Applications (for purposes of the international search report)

Rule 33.1(c)

14.07 Furthermore, the international search report should include published patent applications or patents whose publication date is the same as, or later than, but whose filing date, or, where applicable, claimed priority date [Note: the beginning of this sentence states the international search report "should" include later published but earlier filed (including priority date) application/patent. The issue is whether we want to change "should" to "must." If we want the search results to be of greatest use to designated/elected offices then the search report must include these documents], is earlier than the international filing date of the international application searched, and which would constitute relevant prior art for the purposes of Article 15(2) had it been published prior to the international filing date.

Later Published Patent Applications (for purposes of international preliminary examination)

Rule 64.3

14.08 These earlier filed but later published patent applications or patents are not considered part of the prior art for the purpose of international preliminary examination as to novelty and inventive step. Nevertheless, the preliminary examination report must draw attention to such published application or patent in the manner provided for in Rule 70.10 since it may be relevant to the determination of novelty and inventive step by designated or elected Offices.

[Note: Is it necessary to draw attention to these published patent applications or patents in the IPER since they are already included in the international search report?]

14.09 Rule 70.10 provides that any published application or any patent referred to in the international preliminary examination report by virtue of Rule 64.3 shall be mentioned as such and shall be accompanied by an indication of its date of publication, of its filing date, and its claimed priority date (if any). In respect of the priority date of any such document, the report may indicate that, in the opinion of the International Preliminary Examining Authority, such date has not been validly claimed.

- Copending Applications, Including Those Filed on the Same Date

14.10 [E-IV-6.3] The PCT does not deal explicitly with the case of co-pending international applications of the same date. However, it is an accepted principle in most patent granting systems that two patents shall not be granted to the same applicant for one invention. It is permissible to allow an applicant to proceed with two international applications having the same description where the claims are quite distinct in scope and directed to different subject matter. However, in the rare case in which there are two or more international applications from the same applicant designating the same State or States and the claims of those applications have the same priority date and relate to the same invention (even though they may not necessarily claim that invention in identical terms), the applicant should be notified that he may be required in the national phase to choose which one of those applications he wishes to proceed to grant [Alternative: Rather than notifying applicant that the claims of applicant's two or more international applications relate to the same invention, each conflicting application should be cited in the International Search Report and identified with a specific category symbol as raising possible double patenting issues]. A similar notification, to the applicant alone, should be given in the case where his international application designates a State in which he proceeds with a national application having the same priority date and relating to the same invention as the said international application, if the examiner is aware of this situation. However, no such notification should be given where two international applications of the same priority date and relating to the same invention are received from two different applicants.

- Documents Relevant to Understanding the Invention

Section 507(e)

14.11 [S-VI-4.5] Certain other situations may occur in which a document published on or after the international filing date is relevant; examples are a later document containing the principle or theory underlying the invention, which may be useful for a better understanding of the invention, or a later document showing that the reasoning or the facts underlying the invention are incorrect. The international search should not be extended for this purpose, but documents of this nature known to the search examiner could be selected for citation in the international search report. Such documents should be cited in the International Search Report and their relevance explained in the written opinion.

Form of Disclosure

- Availability of Written Disclosures to the Public

Rule 33.1(c), 64.3, 70.10

14.12 [E-IV-5.2 start] A written disclosure, that is, a document, should be regarded as made available to the public if, at the relevant date (see paragraphs 14.02 to 14.06), it was possible

for members of the public to gain access to the content of the document and to acquire possession of the content of the document, and there was no bar of confidentiality restricting the use or dissemination of knowledge gained thereby. Whether the absence of an index or a catalogue of the document constitutes inaccessibility of the content of the document to the public shall be determined in accordance with the above principle. Where the document only provides the month or the year, but not the specific date, which the document was made available to the public, the content of the document shall be presumed to have been made available to the public on the last day of that month or that year, respectively, unless evidence is provided to prove otherwise.

- 14.13 Prior art disclosure on the Internet or on an on-line database is considered in the same manner as other forms of written disclosure. Information disclosed on the Internet or on-line database are considered to be publicly available as of the date the disclosure was publicly posted. In order to determine whether the information disclosed on the Internet was made available on a particular date or not, the following factors should be taken into account: (i) public availability of the URL; (ii) possibility of search by a search engine; and (iii) credibility of the web site.
- Differences Between Patent and Non-patent Citations

Rule 64.3

14.14 [E-IV-5.2 middle] As a general rule, no non-patent document will be cited in the international search report if the date of publication or public availability of the document concerned is clearly the same as, or later than, the filing date of the international application. However, patent documents published on or after the filing date of the searched application will be cited in the search report if the filing or priority date of such published application is earlier than the filing date of the searched application (see paragraph 14.06). Such published patent documents, although cited in the search report, are not considered as prior art for the purposes of Article 33(2) and (3), but are mentioned in the preliminary examination report.

- Documents Reproducing an Earlier Oral Description

Rule 64.2

14.15 [E-IV-5.3] Where an oral description (e.g., public lecture) or a prior use or sale (e.g., display at a public exhibition) was publicly available before the relevant date of the international application but a document, which reproduces the oral description or gives an account of the prior use or sale, was published on or after the relevant date of the international application, that document may be cited in the international search report. The earlier lecture, display or other event is not treated as part of the prior art for purposes of the opinion on novelty and inventive step under Article 33(2) and (3), but the written opinion and international preliminary examination report should call attention to such non-written disclosure in the manner provided for in Rule 70.9.

Difficulty in Establishing Date of a Document

14.16 [E-IV-5.2 end] The international search may uncover a document where there is difficulty in establishing whether the date of publication or public availability of the document is or is not the same as, or later than, the filing date of the international application. The International Searching Authority should try to remove any doubt that may exist. Additional documents providing evidence in the case of doubt may be cited. Any indication in a document of the date of its publication should be accepted as correct by the examiner unless proof to the contrary has been offered, for example, by the International Searching Authority,

showing earlier publication, or by the applicant, showing later publication. It may sometimes be possible to establish the precise date of publication of a document, for example by the date of receipt in a library to which the public has access or by relying on sources such as the Internet Archive "Wayback Machine" to establish dates of web sites. If the applicant presents sound reasons for doubting that the document forms part of the prior art in relation to his international application and any further investigation does not produce evidence sufficient to remove that doubt, the examiner should not pursue the matter further.

Relevant Date in Relation to Individual Claims or Parts of Claims

Rule 64.1(b)

14.17 [E-IV-5.4, start] It should be noted that the "relevant date," for the purpose of considering prior art, is defined in Rule 64.1(b) as meaning the international filing date or, where the international application contains a valid claim to priority, that date of priority (see also paragraphs V-1.3 and V-1.4). It should be remembered also that different claims, or different alternatives claimed in one claim, may have different relevant dates.

14.18 [E-IV-5.4, end] The questions of novelty and inventive step must be considered against each claim (or part of a claim where a claim specifies a number of alternatives) and the prior art in relation to one claim, or to one part of a claim, may include matter which cannot be cited against another claim, or part of a claim, because the latter has an earlier relevant date. Of course, if all the matter in the prior art was made available to the public before the date of the earliest priority document, the examiner need not (and should not) concern himself with the allocation of priority dates.

14.19 The validity of priority dates for a claim or a part of a claim is considered in detail in Chapter 18.

CHAPTER 15 NOVELTY

Meaning of Novelty

15.01 For the purposes of the opinion given by an international preliminary examination, the invention, as defined by a claim, lacks novelty if every element or step is explicitly or inherently disclosed within the prior art [derivable directly and unambiguously from the prior art] defined in Rule 64.1 (see Chapter 14[XR]), including any features implicit to a person skilled in the art. [Inherency requires that the extrinsic evidence relied on by the examiner must make clear that the missing descriptive matter is necessarily present in the thing described in the reference, and that it would be so recognized by persons of ordinary skill. Inherency, however, may not be established by probabilities or possibilities. The mere fact that a certain thing may result from a given set of circumstances is not sufficient.] Well-known equivalents not disclosed within a prior art document are not considered when assessing novelty; this is a matter of obviousness (see Chapter 16 [XR]- Inventive Step). Naturally the same considerations apply when producing a written opinion and in selecting documents for inclusion in the international search report (except that in this case the relevant date may be different, see paragraphs 14.03 [XR] and 14.05 [XR]).

15.02 In determining novelty, a prior document should be read as it would have been read by a person skilled in the art (see paragraph 16.09[XR] for a definition of the "Person Skilled in the Art") on the effective date of the document, excluding any knowledge discovered subsequent to the effective date. By "effective date" is meant the publication date in the case of a previously published document. However, it should be noted that a chemical compound, the name or formula of which was mentioned in a document, is not considered as known unless the information in the document, together, where appropriate, with knowledge generally available on the effective date of the document, enable it to be prepared and separated or, for instance in the case of a product of nature, only to be separated.

Considerations in Determining Novelty

Methodology

15.03 For the assessment of novelty, the examiner should apply the following steps:

- (i) evaluate the elements of the claimed invention;
- (ii) determine if a document under consideration is available as "prior art" (see paragraph 14.01) [XR];
- (iii) assess whether each and every element or step of the claimed invention was explicitly or inherently disclosed by the document, to a person skilled in the art, on the date of publication ("effective date") of the document. [Inherency requires that the extrinsic evidence relied on by the examiner must make clear that the missing descriptive matter is necessarily present in the thing described in the reference, and that it would be so recognized by persons of ordinary skill. Inherency, however, may not be established by probabilities or possibilities. The mere fact that a certain thing may result from a given set of circumstances is not sufficient.]

Inherent or Implicit Disclosure

15.04 Lack of novelty may be apparent from what is explicitly stated in a published document, or it may be apparent from an inherent or implicit teaching of the document. [Inherency requires that extrinsic evidence relied on by the examiner must make clear that the missing descriptive matter is necessarily present in the thing described in the reference, and that it would be so recognized by persons of ordinary skill. Inherency, however, may not be established by probabilities or possibilities. The mere fact that a certain thing may result from a given set of circumstances is not sufficient.] If, in carrying out the teaching of the prior document, the skilled person would inevitably arrive at a claimed element or step, that element or step is anticipated. For example, where the elastic properties of rubber are relied upon in a document that does not explicitly state that rubber is an "elastic material," a claim to an "elastic material" is anticipated. Lack of novelty of this kind should be raised by the examiner only where there can be no reasonable doubt as to the practical effect of the prior teaching. Otherwise it should be considered in respect of inventive step (see Chapter 16 [XR]).

Interpretation of Claims

15.05 In interpreting claims for the consideration of novelty, the examiner should have regard to the guidance given in Chapter 13, paragraphs 13.19 [XR] to 13.41 [XR]. In particular, the examiner should remember that statements in the claim reciting the purpose or intended use must be evaluated to determine whether the recited purpose or intended use results in a structural difference (or in the case of process claims, a difference in the process steps) between the claimed invention and the prior art. Non-distinctive characteristics of a particular intended use should be disregarded (see paragraphs 13.21 [XR] and 13.22 [XR]).. For example, a claim to a substance X for use as a catalyst would not be considered to be novel over the same substance known as a dye, unless the use referred to implies a particular form of the substance (for example, the presence of certain additives) which distinguishes it from the known form of the substance. That is to say, characteristics not explicitly stated but implied by the particular use should be taken into account. For example, if a claim refers to a "mould for molten steel", this implies certain limitations for the mould. Therefore a plastic ice cube tray with a melting point much lower than that of steel would not come within the claim which would thereby be considered as being novel.

Combining Documents

15.06 [E-IV-7.1]It should be noted that in considering novelty (as distinct from inventive step), it is not permissible to combine separate items of prior art together (see paragraph 16.11[XR]). However, if a document (the "primary" document) refers explicitly to a second document (for example, as providing more detailed information on certain features), the teaching of the second document may be regarded as incorporated into the primary document. Equally, it is permissible to use a dictionary or similar document of reference in order to interpret how a special term used in the primary document would have been understood on the effective date. It is also permissible to rely on additional documents as evidence to show that the disclosure of the primary document was sufficient (e.g., for a chemical compound to be prepared and separated or, in the case of a product of nature, to be separated) on the effective date of the primary document. It is also permissible to rely on additional documents as evidence to show that a characteristic not disclosed in the primary document was inherent in the primary document on the effective date of the primary document (e.g., documents that teach rubber to be an "elastic material" for the example set

forth in paragraph 15.04[XR]). [Inherency requires that the extrinsic evidence relied on by the examiner must make clear that the missing descriptive matter is necessarily present in the thing described in the reference, and that it would be so recognized by persons of ordinary skill. Inherency, however, may not be established by probabilities or possibilities. The mere fact that a certain thing may result from a given set of circumstances is not sufficient.]

Alternatives

15.07 Where a claim contains alternatives, for example Markush claims (P1, P2, P3 ... Pn), the claim is anticipated by the prior art if one of the alternatives (P1) is disclosed in the prior art.

- Generic vs. Specific Disclosures

15.08 Where a claim recites an invention in generic terms, for the determination of novelty, the disclosure of a specific example falling within the parameters of the generic claim anticipates the generic claim. For example, a disclosure of copper in a prior art document defeats the novelty of metal as a generic concept, but not the novelty of any metal other than copper, and a disclosure of rivets defeats the novelty of fastening means as a generic concept, but not the novelty of any specific fastening means other than rivets.

15.09 An item of prior art that discloses a genus does not always anticipate a claim to a species falling within the genus. In other words, if a claim under examination recites a specific example, and that specific example is not explicitly named but falls within a generic disclosure found in an item of prior art, the claim is not anticipated unless the specific example is identified with sufficient specificity in the item of prior art. If the item of prior art identifies the claimed example with sufficient specificity, that example lacks novelty no matter how many other species are additionally described in the item of prior art.

- [Ranges]

A specific example in the item of prior art which is within a claimed range anticipates the range claimed. Therefore, where, as by a recitation of ranges or otherwise, a claim covers several compositions, the claim is anticipated if one of them is described in the item of prior art. For example, a claim to titanium (Ti) alloy with 0.6 to 0.7% nickel (Ni) and 0.2 to 0.4% Molybdenum (Mo) would be anticipated by an item of prior art that describes a Ti alloy containing 0.65% Ni and 0.3% Mo. Where an item of prior art discloses a range which touches, overlaps or is within the claimed range, but does not disclose a specific example falling within the claimed range, a case by case determination must be made as to the novelty of the claim. In order to anticipate the claim, the claimed subject matter should be disclosed with sufficient specificity in the item of prior art. If the claim is directed to a narrow range, the item of prior art discloses a broad range, and the claimed narrow range is not merely one way of carrying out the teaching of the item of prior art (for example, there is evidence that the effect of the selection (e.g., unexpected results) occurred in all probability only within the claimed narrow range), depending on the other facts of the case, it may be reasonable to conclude that the narrow range is not disclosed with sufficient specificity in the prior art in order to anticipate the claims (a selection invention). The unexpected results may also render the claims unobvious. See Chapter 16 [XR] - Inventive Step.]

CHAPTER 16 INVENTIVE STEP

[This should be the sole home of detailed analysis of what is meant by inventive step in different cases. Quick summaries may be appropriate elsewhere, followed by a reference to the relevant detail here.]

Meaning of Inventive Step

16.01 [E-IV-8.1] A claimed invention shall be considered to involve an inventive step if, having regard to the prior art as defined in the Regulations (see paragraph IV-5.1), it is not, at the relevant date (see Chapter 14, paragraphs 14.02 to 14.05) obvious to a person skilled in the art. Novelty and inventive step are different criteria. Novelty exists if there is any difference between the claimed invention and the known art. The condition of inventive step/non-obviousness is fulfilled if the invention as a whole, compared to the prior art as a whole, would not have been obvious to a person skilled in the art. Multiple items of prior art may be combined in the determination of whether the requirement of inventive step/non-obviousness is met. Therefore, the examiner should take into consideration the claim's relation not only to individual documents or parts thereof taken separately but also to combinations of such documents or parts of documents, where such combinations are obvious to a person skilled in the art. [See EPC 9.7, first paragraph].

16.02 [E-IV-8.2] The "prior art" for the purposes of considering inventive step is as defined in Article 33(3) (see Chapter 14); it does not include later published applications or patents although, in the circumstances mentioned in paragraph IV-6.1, a later published application or patent may be cited in the international preliminary examination report.

Considerations in Determining Inventive Step

- What is "Obvious"?

16.03 [E-IV-8.3, start] The question to consider, in relation to any claim defining matter for which protection is sought, is whether, at the relevant date of that claim, it would have been obvious to a person skilled in the art to arrive at something falling within the terms of the claim having regard to the art known at that time. If so, the claim is considered to lack inventive step. The term "obvious" means that which does not go beyond the normal progress of technology but merely follows plainly or logically from the prior art, that is, something which does not involve the exercise of any skill or ability beyond that to be expected of the person skilled in the art. The following are the basic considerations that apply in determining inventive step/non-obviousness: i) the claimed invention must be considered as a whole; [See EPC 9.3a, p67-68] ii) the references must be considered as a whole and must suggest the desirability and thus, the obviousness of making the combination; [See EPC 9.5, p. 70, sixth paragraph; 9.7, 9.7(i)] iii) the references must be viewed without the benefit of impermissible hindsight vision afforded by the claimed invention; [See EPC 9.5, first paragraph] and iv) there must be a reasonable likelihood of success [See EPC 9.9, p.72(last three lines) – p.73.]

Light of Later Knowledge

16.04 [E-IV-8.3, end] In considering inventive step, as distinct from novelty (see paragraph IV-7.3), it is fair to construe any published document in the light of subsequent knowledge and to have regard to all the knowledge generally available to the person skilled in the art at the relevant date of the claim.

- Invention as a Whole; Combination of Known or Obvious Elements

16.05 [E-IV-8.3a] In determining inventive step/obviousness, the invention claimed must normally be considered as a whole. In determining the differences between the prior art and the claims, the question is not whether the differences themselves would have been obvious but whether the claimed invention as a whole would have been obvious. Thus, it is not correct as a general rule, in the case of a combination claim, to argue that the separate features of the combination, taken by themselves, are known or obvious and that "therefore" the whole subject matter claimed is obvious. The only exception to this rule is where there is no functional relationship between the features of the combination. That is, where the claim is merely for a juxtaposition of features and not a true combination (see the example B1 in paragraph IV-8.8).

16.06 While the claim should, in each case, be directed to technical features (and not, for example, merely to an idea) in order to assess whether an inventive step is present, it is important for the examiner to bear in mind that there are various ways in which a person skilled in the art may arrive at an invention.

16.07 In identifying the contribution any particular invention makes to the art in order to determine whether there is an inventive step, account should be taken first of what the applicant himself acknowledges in his description and claims to be known; any such acknowledgment of known art should be regarded by the examiner as being correct unless the applicant states he has made a mistake. However, the further prior art contained in the international search report or any additional document considered to be relevant may put the claimed invention in an entirely different perspective from that apparent from the disclosure by itself and, indeed, this cited prior art may cause the applicant voluntarily to amend his claims to redefine his invention. The general knowledge of the person skilled in the art should also be taken into account for the determination of inventive step. Also, the prior art must be enabling for what is taught therein, even if it is not the entirety of the claimed invention. Therefore, whatever combination of items of prior art and admission or general knowledge is used, this combination must provide enablement with respect to the claimed invention.

- Assessing the Contribution Against the Prior Art

16.08 The following methodology should be used for assessment of inventive step/non-obviousness: (i) determination of the scope of the claimed invention; (ii) determination of the scope of the relevant item(s) of prior art; (iii) determination of a person skilled in the art in the relevant case; (iv) identification of the differences and similarities between the relevant item(s) of prior art and the claimed invention; (v) assessment of whether the claimed invention as a whole would have been obvious to a person skilled in the art having regard to the relevant item(s) of prior art and the general knowledge of a person skilled in the art. The invention as a whole is obvious if any item(s) of prior art or general knowledge of the person of skill in the art would have motivated the person of skill in the art on the relevant date (see Chapter 14, paragraphs 14.02-14.05) to reach the claimed invention by substituting, combining or modifying one or more of those items of prior art with a reasonable likelihood of success.

[16.09] If determining a problem assists in the assessment of inventive step/obviousness, one approach may be to apply a problem solution approach, which involves determining the closest prior art, establishing the technical problem to be solved, and considering whether or not it would have been obvious to the skilled person to modify the closest prior art to arrive at

the claimed invention. It should be noted, however, that the identification of the solution to a problem or the cause of a problem is part of the subject matter as a whole inquiry and that it is not necessary that the invention solve a problem in order for the inventive step requirement to be met.]

16.10 In determining inventive step/non-obviousness and whether the person of skill in the art would have motivated the person of skill in the art on the relevant date to reach the claimed invention by substituting, combining or modifying one or more of those items of prior art, the following factors, in particular, should be considered: (i) relevance to the field of the art; (ii) relevance of the problem to be solved; (iii) relevance of the function or the characteristic of the art; (iv) reasonable degree of predictability of the claimed invention, for example, the claimed invention does not involve an unexpected result. Paragraph Moved to 16.06

16.11 [E-IV-8.5, end] In order to reach a final conclusion as to whether any claim includes an inventive step, it is necessary to determine the difference between the subject matter of that claim as a whole and the whole of the known art (so far as dependent claims are concerned see also paragraph IV-8.10). In considering this matter, the examiner should not proceed solely from the point of view suggested by the form of claim (prior art plus characterizing portion—see section III-2). The examiner should identify the closest prior art as the basis for the assessment of inventive step. This is considered to be that combination of features derivable from one single reference that provides the best basis for considering the question of obviousness [language incorporated from [See EPC 9.5/3, 2nd paragraph and 3(i)]. In determining the scope of the disclosure of the items of prior art, in addition to the explicit disclosure, an implicit disclosure, i.e. a teaching which a person skilled in the art could reasonably draw from the explicit disclosure, should also be taken into account. The critical time for the determination of such disclosure is the claim date of the application concerned. The general knowledge of the person skilled in the art on the claim date should also be taken into account. [See EPC 9.3 and 9.6].

- The "Person Skilled in the Art"

16.12 [E-IV-8.6] The person skilled in the art should be presumed to be an ordinary practitioner aware of what was common general knowledge in the art at the relevant date. He should also be presumed to have had access to everything in the "prior art," in particular, the documents cited in the international search report, and to have had at his disposal the normal means and capacity for routine experimentation. If the problem on which the invention is based and which arises from the closest prior art prompts the person skilled in the art to seek its solution in another technical field, the specialist in that field is the person qualified to solve the problem. The assessment of whether the solution involves an inventive step must therefore be based on that specialist's knowledge and ability. There may be instances where it is more appropriate to think in terms of a group of persons, for example, a research or production team, than a single person. This may apply, for example, in certain advanced technologies such as computers or telephone systems and in highly specialized processes such as the commercial production of integrated circuits or of complex chemical substances.

Combining Teachings

16.13 [E-IV-8.7, start] In considering whether there is inventive step as distinct from novelty (see section IV XVI -7), it is permissible to combine the disclosures of two or more prior art references, for example, different published patents, or several teachings contained in the

same prior art reference, such as one particular book, but only where such combination would be obvious to the person skilled in the art. In determining whether it would be obvious to combine two or more distinct documents, the examiner should have regard to the following:

- (i) whether the nature and content of the documents are such as to make it likely or unlikely that the person skilled in the art would combine them;
- (ii) whether the documents come from similar or neighboring technical fields and if not, whether the documents are reasonably pertinent to the particular problem with which the inventor was concerned.
- 16.14 [E-IV-8.7, end] The combination, substitution or modification of one or more items of prior art may only lead to a lack of inventive step/obviousness where a person skilled in the art would have been motivated by the prior art or his general knowledge, with a reasonable likelihood, to combine, substitute or modify one or more items of prior art. Conversely, where such combination could not have been expected from a person skilled in the art, the requirement of inventive step (non-obviousness) would be met, even if each single item would have been obvious if taken individually. The combining of two or more parts of the same document would be obvious if there is a reasonable basis for the person skilled in the art to associate these parts with one another. It would normally be obvious to combine with other prior art documents a well-known text book or standard dictionary; this is only a special case of the general proposition that it is obvious to combine the teaching of one or more documents with the common general knowledge in the art. It would, generally speaking, also be obvious to combine two documents, one of which contains a clear and unmistakable reference to the other. It should be noted that the motivation to modify the prior art teachings need not be the same as applicant's. It is not necessary that the prior art suggest the combination to achieve the same advantage or result discovered by applicant. The prior art may suggest the claimed invention, but for a different purpose or to solve a different problem.

Examples

- 16.15 [E-IV-8.8] The following examples provide guidance, as to circumstances where a claimed invention should be regarded as obvious or where it involves a positive determination of an inventive step (non-obviousness). It is to be stressed that these examples are only guides for the examiners and that the applicable principle in each case is "was it obvious to a person skilled in the art?" Examiners should avoid attempts to fit a particular case into one of these examples where the latter is not clearly applicable. Also the list is not exhaustive.
- (a) Claimed inventions involving the application of known measures in an obvious way and in respect of which an inventive step is therefore lacking:
- (i) The teaching of a prior document is incomplete as to the entire claimed invention and at least one of the possible ways of supplying the missing claim feature(s) would naturally or readily occur to the person skilled in the art thereby resulting in the claimed invention.

Example: The claimed invention relates to a building structure made from aluminum. A prior document discloses the same structure and says that it is of lightweight material but fails to mention the use of aluminum. Aluminum is a light-weight material that is well known in the art to be useful as a building material.

(ii) The claimed invention differs from the prior art merely in the use of well-known equivalents (mechanical, electrical or chemical) possessing the same purpose, wherein the equivalency is recognized in the prior art. Note that recognition of equivalency cannot be derived solely from applicant's disclosure.

Example: The claimed invention relates to a pump-motor combination which differs from a known pump-motor combination solely in that the motor is hydraulic instead of an electric motor.

(iii) The claimed invention consists merely in a new use of a well-known material employing the known properties of that material.

Example: A washing composition containing as a detergent a known compound having the known property of lowering the surface tension of water, this property being known to be an essential one for detergents.

(iv) The claimed invention consists in the substitution in a known device of a recently developed material whose properties make it plainly suitable for that use (analogous substitution).

Example: An electric cable comprises a polyethylene sheath bonded to a metallic shield by an adhesive. The claimed invention lies in the use of a particularly newly developed adhesive known to be suitable for polymer-metal bonding.

(v) The claimed invention consists merely in the use of a known technique in a closely analogous situation (analogous use).

Example: The claimed invention resides in the application of a pulse control technique to the electric motor driving the auxiliary mechanisms of an industrial truck, such as a fork-lift truck, the use of this technique to control the electric propulsion motor of the truck being already known.

- (b) Claimed inventions involving the application of known measures in a non-obvious way and in respect of which an inventive step is therefore present:
- (i) A known working method or means when used for a different purpose involves a new, surprising effect.

Example: It is known that high-frequency power can be used in inductive butt welding. It should therefore be obvious that high-frequency power could also be used in conductive butt welding with similar effect. An inventive step would exist in this case, however, if high-frequency power were used for the continuous conductive butt welding of a coiled strip but without removing scale (such scale removal being ordinarily necessary in order to avoid arcing between the welding contact and the strip). The unexpected result is that scale removal is found to be unnecessary because at high frequency the current is supplied in a predominantly capacitive manner via the scale which forms a dielectric.

(ii) A new use of a known device or material involves overcoming technical difficulties not resolvable by routine techniques.

Example: The claimed invention relates to a device for supporting and controlling the rise and fall of gas holders, enabling the previously employed external guiding framework to be dispensed with. A similar device was known for supporting floating docks or pontoons but practical difficulties not encountered in the known applications needed to be overcome in applying the device to a gas holder.

(c) Obvious combination of features not involving an inventive step:

The claimed invention consists merely in the juxtaposition or association of known devices or processes functioning in their normal way and not producing any non-obvious working interrelationship.

Example: Machine for producing sausages consists of a known mincing machine and a known filling machine disposed end to end.

(d) Not obvious and consequently a combination of features involving an inventive step:

The combined features mutually support each other in their effects to such an extent that a new technical result is achieved. It is irrelevant whether each individual feature is fully or partly known by itself.

Example: A mixture of medicines consists of a painkiller (analgesic) and a tranquilizer (sedative). It was found that through the addition of the tranquilizer, which intrinsically appeared to have no pain-killing effect, the analgesic effect of the pain-killer was intensified in a way which could not have been predicted from the known properties of the active substances.

- (e) Obvious selection or choice among a number of known possibilities not involving an inventive step:
- (i) The claimed invention consists merely in choosing from a number of equally likely alternatives.

Example: The claimed invention relates to a known chemical process in which it is known to supply heat electrically to the reaction mixture. There are a number of well-known alternative ways of so supplying the heat; the claimed invention resides merely in the choice of one alternative way of supplying the desired heat.

(ii) The claimed invention resides in the choice of particular dimensions, concentrations, temperature ranges or other parameters from a limited range of possibilities, and it is clear that these parameters or workable ranges were encompassed by the prior art and could be arrived at by routine trial and error or by the application of normal design procedures. Where the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation.

Example: The claimed invention relates to a process for carrying out a known reaction and is characterized by a specified rate of flow of an inert gas. The prescribed rates are merely those which would necessarily be arrived at by a person skilled in the art.

(iii) The claimed invention can be arrived at merely by a simple extrapolation in a straightforward way from the known art.

Example: The claimed invention is characterized by the use of a specified minimum content of a substance X in a preparation Y in order to improve its thermal stability, and this characterizing feature can be derived merely by extrapolation on a straight-line graph, obtainable from the known art, relating thermal stability to the content of substance X.

(iv) The claimed invention consists merely in selecting a small number of chemical compounds (i.e. a subgenus or species) from a broad field of chemical compounds (genus).

Example: The prior art discloses a chemical compound characterized by a generic formula including a substituent group designated "R." This substituent "R" is defined so as to embrace entire ranges of broadly defined radical groups such as all alkyl or aryl groups either unsubstituted or substituted by halogen and/or hydroxy. Only a very small number of examples of specific embodiments within the broadly defined radical groups are disclosed in the prior art. The claimed invention consists in the selection of a particular radical or small group of radicals from among those well known to be contained within the broadly defined radical groups disclosed in the prior art as the substituent "R". [The prior art provides motivation to select any well known member of the broadly defined radical groups and thus, provides motivation to one skilled in the art to make the modifications needed to arrive at the claimed compound(s).] Moreover, the resulting compounds:

- are not described as having, nor shown to possess, any advantageous properties not *possessed* by the prior art examples; or
- are described as possessing advantageous properties, compared with the compounds specifically referred to in the prior art but these properties are ones which the person skilled in the art would expect such compounds to possess so that he is likely to be led to make this selection.
- (f) Non-obvious selection or choice and consequently inventive step among a number of known possibilities:
- (i) The claimed invention involves the special selection within a process, of particular operating conditions (for example, temperature and pressure) within a known range, such selection producing unexpected effects in the operation of the process or the properties of the resulting product.

Example: In a process where substance A and substance B are transformed at high temperature into substance C, it was known in the prior art that there is in general a constantly increased yield of substance C as the temperature increases in the range between 50 and 130°C. It is now found that in the temperature range from 63 to 65°C, which previously had not been explored, the yield of substance C was considerably higher than expected.

(ii) The claimed invention consists in selecting particular chemical compounds (subgenus or species) from a broad field of compounds (genus), wherein the specific compounds selected have unexpected advantages.

Example: In the example of a substituted chemical compound given at (iv) under (Cl), above, the claimed invention again resides in the selection of the substituent radical "R"

from the total field of possibilities defined in the prior art. In this case, however, not only does the invention embrace the selection of specific compounds from the possible generic field of compounds and result in compounds that are described and shown to possess advantageous properties, but there are no indications which would lead the person skilled in the art to this particular selection rather than any other in order to achieve the described advantageous properties.

(g) Overcoming a technical prejudice:

As a general rule, there is an inventive step if the prior art leads the person skilled in the art away from the procedure proposed by the claimed invention. This applies in particular when the person skilled in the art would not even consider carrying out experiments to determine whether these were alternatives to the known way of overcoming a real or imagined technical obstacle.

Example: Drinks containing carbon dioxide are, after being sterilized, bottled while hot in sterilized bottles. The general opinion is that immediately after withdrawal of the bottle from the filling device, the bottled drink must be automatically shielded from the outside air so as to prevent the bottled drink from spurting out. A process involving the same steps but in which no precautions are taken to shield the drink from the outside air (because none are in fact necessary) could therefore involve inventive step.

Other Considerations

Ex Post Facto Analysis

16.16 [E-IV-8.9, start] It should be remembered that a claimed invention which at first sight appears obvious might in fact involve an inventive step. Once a new idea has been formulated, it can often be shown theoretically how it might be arrived at, starting from something known, by a series of apparently easy steps. The examiner should be wary of *ex post facto* analysis of this kind. The prior art must be viewed without the benefit of impermissible hindsight vision afforded by the claimed invention. [The teaching or suggestion to make the claimed invention and the reasonable likelihood of success must both be found in the prior art and not based on applicant's disclosure.] In all cases, the examiner should seek to make a practical "real-life" assessment. He should take into account all that is known concerning the background of the claimed invention and give fair weight to relevant arguments or evidence submitted by the applicant.

- Technical Value, Long-Felt Needs

16.17 [E-IV-8.9, middle] In order to establish the positive assertion that the claimed invention involves an inventive step (non-obviousness), the following factors shall also be taken into account as secondary considerations: (i) whether the claimed invention fulfills a long-felt need; (ii) whether the claimed invention overcomes a scientific prejudice; (iii) whether others have previously attempted, but failed to achieve what the claimed invention achieves; (iv) whether the claimed invention involves an unexpected result; (v) whether the claimed invention has a particular commercial success. [See EPC 9.9]. If, for example, a claimed invention is shown to be of considerable technical value and, particularly, if it provides a technical advantage which is new and surprising and this can be convincingly related to one or more of the features included in the claim defining the invention, the examiner should be hesitant in raising a negative determination that such a claim lacks inventive step. The same applies where the claimed invention solves a technical problem which workers in the art have

been attempting to solve for a long time, or otherwise fulfills a long-felt need, or overcomes a scientific prejudice.

Commercial Success

16.18 [E-IV-8.9, end] Commercial success alone is not to be regarded as indicative of inventive step, but evidence of immediate commercial success when coupled with evidence of a long-felt want is of relevance provided the examiner is satisfied that the success derives from the technical features of the claimed invention and not from other influences (for example, selling techniques or advertising) and is commensurate in scope with the claimed invention.

Rule 6.4(b)

16.19 [E-IV-8.10] The examiner should bear in mind that, when considering whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), and to be industrially applicable, a dependent claim is regarded as limited by all the features of the claim on which it depends. Therefore, if the statement concerning novelty of the independent claim is positive, it should normally be positive for the dependent claims. This principle applies to inventive step and industrial applicability as well.

CHAPTER 17 INDUSTRIAL APPLICABILITY

[Meaning of Industrial Applicability]

Article 5, 33(4), 34(4)(a)(ii), 35(3)(a)

17.01 A claimed invention shall be considered industrially applicable if, according to its nature, it can be made or used (in the technological sense) in any kind of industry[, if it is capable of exploitation in any field of commercial activity, or if it has a specific, substantial, and credible utility.]

17.02 "Industry" shall be understood in its broadest sense, as in the Paris Convention for the Protection of Industrial Property. Industry therefore includes any physical activity of a technical character, that is, an activity which belongs to the useful or practical arts as distinct from the aesthetic arts; it does not necessarily imply the use of a machine or the manufacture of an article and could cover a process for dispersing fog, or a process for converting energy from one form to another.

[17.03 A claimed invention has a specific, substantial, and credible utility if it is useful for any particular practical purpose and the utility would be considered credible by a person of ordinary skill in the art. See paragraphs 17.07 - 17.09 for the application of these principles to biotechnology-related inventions.

Considerations in Determining Industrial Applicability

Methodology

17.04 For the assessment of industrial applicability, the following steps shall be applied:

- (i) determine what the applicant has claimed; and
- (ii) determine whether a person of ordinary skill in the art would recognize at least one specific, substantial, and credible utility based on the characteristics of the invention.

17.05 In most cases, inventions will have well-established utility and the way in which the invention is industrially applicable will be self-evident. In these cases, no more explicit description on this point will be required. An invention has a well-established utility if (i) a person of ordinary skill in the art would immediately appreciate why the invention is useful based on the characteristics of the invention (e.g., properties or applications of a product or process), and (ii) the utility is specific, substantial, and credible.]

Rule 43bis, 66.2(a)(ii), 70.8

17.06 If any product or process is alleged to operate in a manner clearly contrary to well-established physical laws and thus the invention cannot be carried out by a person skilled in the art, the claim does not have [a credible utility] industrial applicability and the applicant should be so notified. [XR NOTE-Check for consistency with Ch. 20 exclusions]

[Biotechnology-Related Considerations

17.07 To comply with the industrial applicability requirement, an invention must have a specific, or particular, utility. The examiner should distinguish between situations where an applicant has disclosed a specific use or application of the invention, and situations where the applicant merely indicates that the invention may prove useful without identifying with

specificity why it is considered useful. For example, indicating that a compound may be useful in treating unspecified disorders, or that the compound has "useful biological" properties, would not be sufficient to define a specific utility for the compound. Similarly, a claim to a polynucleotide whose use is disclosed simply as a "gene probe" or "chromosome marker" would not be considered to be specific in the absence of a disclosure of specific DNA target. A general statement that a compound could be used to diagnose a disease would ordinarily be insufficient absent a disclosure of what condition can be diagnosed. Contrast the situation where an applicant discloses a specific biological activity of a compound and reasonably correlates that activity to a disease condition. Assertions falling within the latter category are sufficient to identify a specific utility for the invention. Assertions that fall in the former category are insufficient to define a specific utility for the invention, especially if the assertion takes the form of a general statement that makes it clear that a "useful" invention may arise from what has been disclosed by the applicant.

17.08 To comply with the industrial applicability requirement, an invention must have a substantial, or practical "real world" utility. Utilities that require or constitute carrying out further research to identify or reasonably confirm a "real world" context of use are not substantial utilities. For example, both a compound for [therapeutic method of] treating a known or newly discovered disease and an assay method for identifying compounds that themselves have a "substantial utility" define a "real world" context of use. An assay that measures the presence of a material which has a stated correlation to a predisposition to the onset of a particular disease condition would also define a "real world" context of use in identifying potential candidates for preventive measures or further monitoring. The examiner must distinguish between inventions that have a specifically identified substantial utility and inventions whose asserted utility requires further research to identify or reasonably confirm. Labels such as "research tool," "intermediate" or "for research purposes" are not helpful in determining if an applicant has identified a specific and substantial utility for the invention. The following are examples of situations that require or constitute carrying out further research to identify or reasonably confirm a "real world" context of use and, therefore, do not define "substantial utilities":

- (i) basic research such as studying the properties of the claimed product itself or the mechanisms in which the material is involved:
- (ii) a method of assaying for or identifying a material that itself has no specific and/or substantial utility;
- (iii) a method of making a material that itself has no specific, substantial, and credible utility; and
- (iv) a claim to an intermediate product for use in making a final product that has no specific, substantial and credible utility[; and
 - (v) a method of treating an unspecified disease or condition.]

17.09 To comply with the industrial applicability requirement, an invention must have a credible utility. An assertion is credible unless (i) the logic underlying the assertion is seriously flawed, or (ii) the facts upon which the assertion is based are inconsistent with the logic underlying the assertion. Credibility as used in this context refers to the reliability of the statement based on the logic and facts that are offered by the applicant to support the assertion of utility. One situation where an assertion of utility would not be considered credible is

where a person of ordinary skill would consider the assertion to be "incredible in view of contemporary knowledge" and where nothing offered by the applicant would counter what contemporary knowledge might otherwise suggest. Claims directed to a compound for [or method of] curing a disease or vaccinating against a disease for which there have been no previously successful cures or vaccines warrant careful review for compliance with the industrial applicability requirement. The credibility of an asserted utility of a compound for treating a human disorder may be more difficult to establish where current scientific understanding suggests that such a task would be impossible. Such a determination has always required a good understanding of the state of the art as of the time that the invention was made. The fact that there is no known cure for a disease, however, cannot serve as the basis for a conclusion that such an invention lacks industrial applicability. Rather, it is necessary to determine if the asserted utility for the invention is credible based on the information disclosed in the application.]

CHAPTER 18 PRIORITY

The right to priority

18.01 An international application is accorded as its international filing date the date on which it satisfies the requirements of Article 11. This date remains unchanged except in the special circumstances of later-filed drawings and sheets as provided in Article 14(2) and Rule 20.2. The international filing date may be the only effective date of the international application. It will be of importance for fixing the expiration of certain time limits and for determining the state of the art relevant for the purposes of the international search and examination.

Article 2{*xi*}

18.02 However, in many cases, an international application will claim the right of priority of the date of filing of an earlier application. In this case, it is the priority date (that is, the filing date of the earlier application) which will be used to calculate certain time limits. Furthermore, it is the priority date which becomes the effective date for the purposes of the international examination, that is , the written opinion (of the International Searching Authority or the International Preliminary Examining Authority) and the international preliminary examination report. Note that the relevant date for the purposes of the international search is always the international filing date. Paragraph 14.05 defines the "relevant date" for purposes of the international search while paragraphs 14.03-14.04 define the "relevant date" for purposes of the written opinion (whether prepared by the International Searching Authority or the International Preliminary Examining Authority) and the international preliminary examination report. See also paragraphs 9.70 and 12.25. Paragraph 4.01 defines "relevant prior art" for the purposes of the international search while paragraph 14.01 provides a general definition of prior art.

Article 8(1); Rule 4.10

18.03 For a valid claim to priority, several conditions must be satisfied: the earlier application whose priority is claimed must have been made by the applicant or his predecessor in title; it must have been filed not more than 12 months before the filing date of the international application; and have been "filed in or for any country party to the Paris Convention for the Protection of Industrial Property or in or for any Member of the World Trade Organization that is not party to that Convention." The words "in or for" any country or Member mean that the earlier application the priority of which is claimed may be an earlier national, regional or international application. The earlier application may be for a patent or for the registration of a utility model or for an inventor's certificate. So long as the contents of the earlier application were sufficient to establish a filing date, it can be used to create a priority date, no matter what the final disposition of the application may later be; for example, it may subsequently be withdrawn or held withdrawn. Other conditions to be satisfied for a valid claim of priority are mentioned in paragraphs 18.11 to 18.17.

Article 8(2)(*a*)

18.04 Normally, the application the priority of whose filing date is claimed must be the first application that has been filed for the invention. However, a subsequent application for the same subject matter as the previous first application filed in or for the same State will be considered as the first application for priority purposes if, when this subsequent application was filed, the first application had been withdrawn, abandoned or refused, without being open to public inspection and without leaving any rights outstanding, and had not served as a basis for claiming priority. The examiner will not normally consider this question unless there is

clear evidence of the existence of an earlier application as, for example, in the case of a United States continuation application. Where it is clear that an earlier application for the same subject matter exists, and where the priority right is important because of intervening prior art (see paragraph 18.06), the applicant should be invited to satisfy the examiner that there were no rights outstanding in the earlier application in respect of the subject matter of the application being examined.

Article 8(1)

18.05 An international application may claim rights of priority based on more than one earlier application ("multiple priorities"), even if they originate in different countries. The earliest application must have been filed not more than 12 months before the date of filing of the international application. An element of an international application will be accorded the priority date of the earliest priority application which discloses it. If, for instance, the international application describes and claims two embodiments (A and B) of an invention, A being disclosed in a French application and B in a German application, both filed within the preceding 12 months, the priority dates of both the French and German applications may be claimed for the appropriate parts of the international application; embodiment A will have the French priority date and embodiment B the German priority date. If an international application is based on one earlier application disclosing a feature C and a second earlier application disclosing a feature D, neither disclosing the combination of C and D, a claim to that combination will be entitled only to the date of filing of the international application itself. In other words, it is not permitted to make a mosaic of the priority documents. An exception might arise where one priority document contains a reference to the other and explicitly states that features from the two documents may be combined in a particular manner.

Determining priority dates

18.06 As a general rule, the examiner, in preparing a written opinion or an international preliminary examination report, should not make any investigation as to the validity of a right to priority. However, the priority right assumes importance if subject matter relevant with regard to the determination of novelty or inventive step (non-obviousness) of the claimed invention (i) has been published within the meaning of Rule 64.1 on or after the priority date claimed and before the international filing date, or (ii) forms part of the content either of a non-written disclosure within the meaning of Rule 64.2, that is, a non-written disclosure which occurred before the priority date and which was indicated in a written disclosure in the period between, and including, the priority date and the international filing date, or (iii) forms part of the content of an application or patent within the meaning of Rule 64.3, that is, an application or patent which was published on or after that date but was filed earlier than the international filing date or claimed the priority of an earlier application which was filed prior to the international filing date. In such cases (that is, cases where the art in question would be relevant if of earlier date), the examiner must satisfy himself that the priority date(s) claimed may be accorded to the appropriate parts of the international application he is examining and, where appropriate, will also consider the validity of any priority date claimed for the application or patent within the meaning of Rule 64.3 (see also Rule 70.10, last sentence).

18.07 When the examiner needs to consider the question of priority date, he should bear in mind all the matters which are mentioned in paragraphs 18.03-18.05. He should also remember that, to establish a priority date, it is not necessary that all of the elements of the invention for which priority is claimed should be found among the claims in the previous application. It is sufficient that the documents of the previous application taken as a whole

specifically disclose such elements. The description and any claims or drawings of the previous application should, therefore, be considered as a whole in deciding this question, except that account should not be taken of subject matter found solely in that part of the description referring to prior art, or in an explicit disclaimer.

18.08 The requirement that the disclosure must be specific means that it is not sufficient if the elements in question are merely implied or referred to in broad and general terms. A claim to a detailed embodiment of a certain feature would not be entitled to priority on the basis of a mere general reference to that feature in a priority document. Exact correspondence is not required, however. It is enough that, on a reasonable assessment, there is in substance a disclosure of the combination of all the important elements of the claim.

18.09 The basic test to determine whether a claim is entitled to the date of a priority document is the same as the test of whether an amendment to an application satisfies the requirement of Article 34(2)(b). That is to say, for the priority date to be allowed, the subject matter of the claim must be derivable directly and unambiguously from the disclosure of the invention in the priority document, when account is taken of any features implicit to a person skilled in the art in what is expressly mentioned in the document. As an example of an implicit disclosure, a claim to apparatus including "releasable fastening means" would be entitled to the priority date of a disclosure of that apparatus in which the relevant fastening element was, say, a nut and bolt, or a spring catch or a toggle-operated latch, provided the general concept of "releasable fastening" is implicit in the disclosure of such element.

18.10 If the tests set out in paragraphs 18.07-18.09 are not satisfied in relation to a particular earlier application, then the relevant date of the claim will either be the priority date of the earliest application which satisfies the tests and does provide the required disclosure or, in the absence of such, will be the international filing date of the international application itself.

Claiming priority

Article 11. Rule 4.10

18.11 An applicant who wishes to claim priority must state this on the request (Form PCT/RO/101) giving particulars of the previous filing, as specified in Rule 4.10 (see paragraph 18.13), although later correction of priority claims, including the addition or deletion of entire priority claims, is permitted under Rule 26bis within the time limits discussed in paragraph 18.16.

Rule 17.1

18.12 When making a claim to priority, the applicant must, in addition to giving the particulars of the previous filing, submit the priority document to the International Bureau or to the receiving Office within 16 months of the priority date, unless it was already filed with the receiving Office together with the international application. Any priority document submitted by the applicant which is received by the International Bureau after the expiration of that 16-month time limit will nevertheless be considered to have been received by that Bureau on the last day of the 16-month time limit if it is received before the date of international publication of the international application. Where the priority document is issued by the receiving Office the applicant may, instead of submitting the priority document, request the receiving Office to transmit the priority document to the International Bureau, in which case the time limit for furnishing the priority document has been complied with if the applicant makes the request before the expiration of the 16-month time limit irrespective of when the priority document reaches the International Bureau.

- 18.13 The examiner should keep in mind that the form of the declaration (see paragraph 18.11) claiming the priority of one or more earlier applications under Article 8(1) is prescribed under Rule 4.10(a). The prescribed form of declaration includes the giving of the following indications:
- (i) the date on which the earlier application was filed, being a date falling within the period of 12 months preceding the international filing date;
 - (ii) the number of the earlier application;
- (iii) where the earlier application is a national application, the country party to the Paris Convention for the Protection of Industrial Property or the Member of the World Trade Organization that is not party to that Convention in which it was filed,
- (iv) where the earlier application is a regional application, the authority entrusted with the granting of regional patents under the applicable regional patent treaty;
- (v) where the earlier application is an international application, the receiving Office with which it was filed.
- 18.14 Where the earlier application is a regional application or an international application, the applicant may also indicate in the priority claim one or more countries party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed.
- 18.15 Where the earlier application is a regional application and at least one of the countries party to the regional patent treaty is neither party to the Paris Convention for the Protection of Industrial Property nor a Member of the World Trade Organization, the priority claim shall indicate at least one country party to that Convention or one Member of that Organization for which that earlier application was filed.

Rule 26bis

18.16 It is clear from the provisions of Rule 26bis that the indications concerning a priority claim, if not made in the request (Form PCT/RO/101), must be furnished by the applicant to the International Bureau or to the receiving Office within 16 months of the priority date or, where correction or addition of a priority claim would cause a change in the priority date, 16 months from the priority date as so changed, whichever 16-month period expires first, provided that a notice correcting or adding a priority claim may, in any case, be submitted until the expiration of four months from the international filing date. The correction of a priority claim may include the correction or addition of any indication referred to in Rule 4.10.

Rule 66.7(a) and (b), 17.1(c)

18.17 If the examiner needs a copy of the priority document (see paragraph 18.06), the copy is supplied on request by the International Bureau, unless the International Bureau has not yet received the priority document (see paragraph 18.11), in which event the examiner may invite the applicant himself to furnish such a copy. If the priority document is not in the language, or one of the languages (if more than one) of the relevant authority, the examiner may invite the applicant to furnish a translation of the priority document within two months of the invitation. In the meantime, the examiner may proceed as if the priority of the earlier application had been validly claimed. If the priority document or its translation is not timely furnished, the written opinion and/or the international preliminary examination report will be

established as if the priority had not been claimed (see also paragraphs 9.70, 12.25 and 14.04); however, no designated Office may disregard the priority claim before giving the applicant an opportunity to furnish the priority document within a time limit which shall be reasonable under the circumstances.

CHAPTER 19 CONTENT OF THE INTERNATIONAL APPLICATION (OTHER THAN THE CLAIMS)

General

Article 3(2)

19.01 [E-II-1.1] The contents of the international application are set out in Article 3(2). The application must contain:

- (i) a request;
- (ii) a description (see paragraphs 19.02 to 19.22);
- (iii) one or more claims (see Chapter 13);
- (iv) one or more drawings (where required; see paragraph 19.23); and
- (v) an abstract (see Chapter 8).

This Chapter discusses above items (b) and (d) insofar as they are the concern of the International Searching Authority and International Preliminary Examining Authority. The requirements of the Request (item (a)) are described in the PCT Receiving Office Guidelines (PCT/GL/RO/2). The requirements of the claims (item (c)) are discussed in Chapter 13. The requirements of the abstract (item (e)) are discussed in Chapter 8.

Description

Article 5

19.02 [E-II-4.1] The international application must "disclose the invention in a manner sufficiently clear and complete for the invention to be carried out by a person skilled in the art." The meaning of "person skilled in the art" is discussed in paragraph 16.10 [XR]. This requirement of disclosure should be met by the description with the aid of drawings, if any. The provisions relating to the content of the description are set out in Rule 5. The purposes of these provisions are:

(i)to ensure that the international application contains all the technical information required to enable a skilled person to put the invention into practice; and

(ii) to enable the reader to understand the contribution to the art which the inventor has made.

Rule 5.1

19.03 [E-II-4.2] The description should start with the same title that appears in the request (Form PCT/RO/101) (see also Chapter 8). The description should contain subheadings corresponding to those contained in Section 204 ("Technical Field", "Background Art", "Disclosure of Invention", "Brief Description of Drawings", "Best Mode(s) for Carrying Out the Invention", "Industrial Applicability" and, where appropriate, "Sequence Listing" and "Sequence Listing Free Text"). The use of such subheadings is strongly recommended in order to provide uniformity in publication and to facilitate access to the information contained in the international application. Some of the recommended subheadings are discussed in the following paragraphs.

Technical field

Rule 5.1(a)(i)

19.04 [E-II-4.3] The application should specify the technical field to which it relates.

Background art

Article 34(2)(b), Rule 51(a)(ii), 6.3(b)(1)

19.05 [E-II-4.4] The description should also mention any background art of which the applicant is aware, and which can be regarded as useful for understanding the invention and its relationship to the prior art; identification of documents reflecting such art, especially patent specifications, should preferably be included. This applies in particular to the background art corresponding to those technical features of the invention which are necessary for the definition of the claimed subject matter but which, in combination, are part of the prior art (see Rule 6.3(b)(i) and paragraph 13.05 [XR]).

[19.06] The insertion into the statement of prior art of references to documents identified subsequently, for example by the search report, may be appropriate, provided that the amendment would not go beyond the disclosure in the international application as filed. For instance, while the originally filed description of prior art may give the impression that the inventor has developed the invention from a certain point, the cited documents may show that certain stages in, or aspects of, these alleged developments were already known. The examiner may invite the inclusion of a reference to these documents and a brief summary of the relevant contents. Care should be taken that any such inclusion does not contravene Article 34(2)(b) (see paragraphs VI-7.8 to VI-7.13).

[19.07 E-II-4.5] Since the reader is presumed to have the general background and technical knowledge appropriate to the art, and it is not in any case permitted to make amendments which go beyond the disclosure as filed (see <<>>), the examiner should not invite the applicant to insert anything in the nature of a treatise or research report or explanatory matter which is obtainable from textbooks or is otherwise well known. Likewise, the examiner should not invite the applicant to provide a detailed description of the content of cited prior documents. It is sufficient that the reason for the inclusion of the reference is indicated, unless, in a particular case, a more detailed description is necessary for a full understanding of the claimed invention. Lists of several reference documents relating to the same feature or aspect of the prior art are not required; only the most appropriate ones need to be referred to. On the other hand, the examiner should not invite the applicant to excise any such unnecessary matter, except when it is very extensive.]

Disclosure of invention

Rule 5.1(a)(iii), 9.1(iii)

19.08 [E-II-4.6] The invention as claimed should be disclosed in such a way that the technical problem, or problems, with which it deals can be appreciated and the solution can be understood. To meet this requirement, only such details should be included as are necessary for elucidating the invention. Where the invention lies in realizing what the problem is (see paragraph [XR]), this should be apparent, and, where the means of solving the problem (once realized) are obvious, the details given of its solution may, in practice, be minimal.

19.09 When there is doubt, however, as to whether certain details are necessary, the examiner should not require their excision. It is not necessary, moreover, that the invention be presented explicitly in problem and solution form. Any advantageous effects which the

applicant considers the invention to have in relation to the prior art should be stated, but this must not be done in such a way as to disparage any particular prior product or process. The prior art nor the applicant's invention cannot be referred to in a manner likely to mislead. This might be done, for example, by an ambiguous presentation which gives the impression that the prior art had solved less of the problem than was actually the case. Fair comment as referred to in paragraph 19.28 [XR] is permitted. Regarding amendment to, or addition of, a statement of problem, see paragraph 10.41 [XR].

Brief description of drawings

19.1019. 08 [E-II-4.7] If drawings are included they should first be briefly described, in a manner such as: "Figure 1 is a plan view of the transformer housing; Figure 2 is a side elevation of the housing; Figure 3 is an end elevation looking in the direction of the arrow 'X' of Figure 2; Figure 4 is a cross-section taken through AA of Figure I." When it is necessary to refer in the description to elements of the drawings, the name of the element should be referred to as well as its number, that is, the reference should not be in the form "3 is connected to 5 via 4" but "resistor 3 is connected to capacitor 5 via switch 4."

19.11 [E-II-4.8] The description and drawings shall be consistent with one another, especially in the matter of reference numbers and other signs (see paragraph 19.25). However, where, as a result of amendments to the description, whole passages are deleted, it may be tedious to delete all superfluous references from the drawings and in such a case the examiner need not pursue too rigorously the consistent use of reference signs as between the description and the drawings. The reverse situation should not occur, that is, all reference numbers or signs used in the description or claims should also appear on the drawings.

- Best mode for carrying out the invention

Rule 5.1(a)(v)

19.12 [E-II-4.9] The international application should set forth at least the best mode contemplated by the applicant for carrying out the invention claimed; this shall be done in terms of examples, where appropriate, and with reference to the drawings, if any; where the national law of the designated State does not require the description of the best mode but is satisfied with the description of any mode (whether it is the best contemplated or not), failure to describe the best mode contemplated shall have no effect in that State. In many cases, a single example or single embodiment will suffice, but where the claims cover a broad field, the description should not usually be regarded as satisfying the requirements of Article 5 unless it gives a number of examples or describes alternative embodiments or variations extending over the area protected by the claims. However, regard must be had to the facts of the particular case. There are some instances where even a very broad field is sufficiently exemplified by a limited number of examples or even one example.

Structure and function

19.13 [E-II-4.9a] In order that the requirements of Article 5 and of Rule 5.1(a)(iii) and (v) may be fully satisfied, it is necessary that the invention be described not only in terms of its structure but also in terms of its function, unless the functions of the various parts are immediately apparent. Indeed, in some technical fields (for example, computers), a clear description of function may be much more appropriate than an over-detailed description of structure.

Sufficiency

- 19.14 [E-II-4.10] It is the responsibility of the applicant to ensure that he supplies, when he first files his international application, a sufficient disclosure, that is, one that meets the requirements of Article 5 in respect of the invention, as claimed in all of the claims. If the disclosure is seriously insufficient, such a deficiency cannot be cured subsequently by adding further examples or features without offending against Article 34(2)(b) which requires that the subject matter content of the application must not go beyond the disclosure in the international application (see paragraphs 11.02 [XR] and 10.34 [XR]).
- 19.15 [E-II-4.11] Occasionally international applications are filed in which there is a fundamental insufficiency in the invention in the sense that it cannot be carried out by a person skilled in the art; there is then a failure to satisfy the requirements of Article 5 which is essentially irreparable. Two instances thereof deserve special mention:
- (a) The first is where the successful performance of the invention is dependent on chance. That is to say, a person skilled in the art, in following the instructions for carrying out the invention, finds either that the alleged results of the invention are not reproducible or that success in obtaining these results is achieved in a totally unreliable way. An example where this may arise is a microbiological process involving mutations. Such a case should be distinguished from one where repeated success is assured even though accompanied by a proportion of failures as can arise, for example, in the manufacture of small magnetic cores or electronic components; in this latter case, provided the satisfactory parts can be readily sorted by a nondestructive testing procedure, no objection necessarily arises under Article 5.
- (b) The second instance is where successful performance of the invention is inherently impossible because it would be contrary to well-established physical laws—this applies, for example, to a perpetual motion machine (see paragraph 17.06 [XR]).
- Industrial applicability

Article 33(1) and (4); Rule 5.1(a)(vi)

19.16 [E-II-4.12] Refer to Chapter 17 for discussion of the industrial applicability.

Nucleotide and/or amino acid sequence listings

Rule 13ter.1(a), (c) and (e); Section 208, Ad Inst Annex C

19.17 [AU-E-2.5.7.1] Where the international application contains disclosure of one or more nucleotide and/or amino acid sequences, the description shall contain a sequence listing complying with the standard provided for in Annex C of the Administrative Instructions and prescribed as a separate part of the description as prescribed by the standard. For handling of the nucleotide and/or amino acid sequence listings, refer to Chapter 8 (search stage) and Chapter 9 (examination stage).

References to Deposited Microorganisms or Other Biological Material as Part of the Description

19.18 [first part of paragraph 229 of RO guidelines] The national law of certain States requires that references to deposited microorganisms or other biological material furnished under Rule 13bis.3(a) be included in the description (*PCT Applicant's Guide*, Volume I/B, Annex L). Where such a State is designated and indications are presented on a separate sheet such as

Form PCT/RO/134 (which may be prepared using the PCT-EASY software), that sheet must be numbered as a sheet of the description.

Requirements as to the Language of Sheets Containing References to Deposited Microorganisms or Other Biological Material

19.19 [paragraph 234 of RO guidelines] Sheets containing references to deposited microorganisms or other biological material must, if they are part of the description, be in the same language as that description. This is a requirement for being accorded an international filing date (Article 11(1)(ii) and paragraph 41). If the receiving Office notices that such sheets are not in such language, it promptly notifies the applicant (Form PCT/RO/103) that no international filing date may be accorded because the language requirement is not fulfilled.

General

Rule 5.1(b); Section 204

19.20 [E-II-4.13] The manner and order of presentation of the various parts of the description should be that specified in Rule 5.l(a) and Section 204, unless, "because of the nature of the invention, a different manner or a different order would result in a better understanding and a more economic presentation." Since the responsibility for a clear and complete description of the invention lies with the applicant, the examiner should exercise his discretion as to whether to object to the presentation. Some departure from the requirements of Rule 5.l(a) is acceptable, provided the description is clear and orderly and all the requisite information is present. For example, the requirements of Rule 5.l(a)(iii) may be waived where the invention is based on a fortuitous discovery, the practical application of which is recognized as being useful, or where the invention breaks entirely new ground. Also certain technically simple inventions may be fully comprehensible with the minimum of description and but slight reference to prior art.

Rule 10.2

19.21 [E-II-4.14] The description shall be clear and straightforward with avoidance of unnecessary technical jargon. The use of recognized terms of art is acceptable, and will often be desirable. Little known or specially formulated technical terms may be allowed, provided that they are adequately defined and that there is no generally recognized equivalent. This discretion may be extended to foreign terms when there is no equivalent in the language of the international application. Terms already having an established meaning must not be used to mean something different as this is likely to cause confusion. There may be circumstances where a term may legitimately be borrowed from an analogous art. Terminology and signs must be consistent throughout the international application.

19.22 [E-II-4.14a] In the particular case of inventions in the computer field, program listings in programming languages cannot be relied on as the sole disclosure of the invention. The description, as in other technical fields, should be written substantially in normal language, possibly accompanied by flow diagrams or other aids to understanding, so that the invention may be understood by those skilled in the art. Short excerpts from programs written in commonly used programming languages can be accepted if they serve to illustrate an embodiment of the invention.

Rule 10.1(a).(b).(d) and (e)

19.23 [E-II-4.15] When the properties of a material are referred to, the relevant units should be specified if quantitative considerations are involved. If this is done by reference to a published standard (for example, a standard of sieve sizes), and such standard is referred to by

a set of initials or similar abbreviation, it should be adequately identified in the description. The metric system of units of weight and measures must be used or, if another system is used, the units must additionally be expressed in the metric system. Similarly, temperature must be expressed in degrees Celsius or also expressed in degrees Celsius if first expressed in a different manner. Other physical values (that is, other than those having units directly derivable from length, mass, time and temperature) must be expressed in the units recognized in international practice; for example, for electric units the MKSA (Meter, Kilogram, Second, Ampere) or SI (Systeme International) systems should be used. Chemical and mathematical symbols, atomic weights and molecular formulae should be those in general use, and technical terms, signs and symbols should be those "generally accepted in the art." In particular, if there are any agreed international standards in the art in question, these should be adopted wherever practicable

19.24 [E-II-4.16] The use of proper names or similar words to refer to materials or articles is undesirable insofar as such words merely denote origin or where they relate to a range of different products. If such a word is used, then in order to satisfy the requirements of Article 5, the product must normally be sufficiently identified, without reliance upon the word, to enable the invention to be carried out by a person skilled in the art. However, where such words have become internationally accepted as standard descriptive terms and have acquired a precise meaning (for example, "Bowden" cable, "Bellville" washer), they may be allowed without further identification of the product to which they relate.

19.25 [E-II-4.17] References in international applications to other documents may relate either to the background art or to a part of the disclosure of the invention. Where the reference relates to the background art, it may be in the application as originally filed or introduced at a later date (see paragraph 10.34 [XR]). Where the reference relates directly to the disclosure of the invention (for example, details of one of the components of a claimed apparatus) then, if it is to be taken into account in respect of Article 5, it must be in the application as originally filed and clearly identify the document referred to in such a manner that the document can be easily retrieved. If matter in the document referred to is essential to satisfy the requirements of Article 5, this matter should be incorporated in the description, because the patent specification should, regarding the essential features of the invention, be self-contained, that is, capable of being understood without reference to any other document.

19.26 [E-II-4.18] A reference to an unpublished, previously filed application (that is, not published before the international filing date) should not be regarded as being part of the disclosure, unless the application referred to is made available to the public on or before the publication date of the international application. The reference to such an application made available to the public on or before the publication date of the international application may be replaced by the actual text referred to and may be taken into account by the examiner. Similarly, references to textbooks and periodicals are allowable under the same conditions if it can be proved that the content thereof was fixed prior to the international filing date. In the case of any document made available to the public later than the publication date of the international application or not to be published at all (for example, an application withdrawn before publication), the examiner should not take into account the reference to that document for the purposes of international preliminary examination. It should be noted, however, that this practice relates only to the international phase and does not preclude any decision applying relevant national law as far as it relates to the contents of the disclosure of the international application as filed.

Drawings

Rule 11

19.27 [E-II-5.1] The formal requirements relating to drawings are set down in Rules 11.10 to 11.13. The only question likely to cause difficulty is whether the text matter included on the drawings is absolutely indispensable. In the case of circuit diagrams, block schematics and flow sheets, identifying catchwords for functional integers of complex system (for example, "magnetic core store," "speed integrator") may be regarded as indispensable from a practical point of view if they are necessary to enable a diagram to be interpreted rapidly and clearly. However, such items can often be identified by a single numeral or letter which is then explained in the description.

Expressions, etc., not to be used

Rule 9.1(i) and (ii)

19.28 [E-II-6.1] There are four categories of expressions which should not be contained in an international application. These categories are specified in Rule 9.1. Examples of the kind of matter coming within the first and second categories contrary to public order ("ordre public") or morality—are: incitement to riot or to acts of disorder; incitement to criminal acts; racial, religious or similar discriminatory propaganda; and grossly obscene matter. The purpose of Rule 9 is to prohibit the kind of matter likely to induce riot or public disorder, or lead to criminal or other generally offensive behavior. This Rule is likely to be invoked by the examiner only in rare cases.

Rule 9.1(iii)

19.29 [E-II-6.2] It is necessary to discriminate in the third category—disparaging statements—between libelous or similarly disparaging statements, which are not allowed, and fair comment, for example, in relation to obvious or generally recognized disadvantages, or disadvantages stated to have been found by the applicant, which, if relevant, is permitted.

Rule 9.1(iv)

19.30 [E-II-6.3] The fourth category is irrelevant matter. It should be noted, however, that such matter is specifically prohibited under the Rule only if it is "obviously irrelevant or unnecessary," for instance, if it has no bearing on the subject matter of the invention or its background of relevant prior art (see also paragraph [XR]). The matter to be removed may already be obviously irrelevant or unnecessary in the original description. It may, however, be matter which has become obviously irrelevant or unnecessary only in the course of the examination proceedings, for example, owing to a limitation of the claims of the patent to one of the originally several alternatives.

19.31 [E-II-6.4] Generally, the receiving Office or the International Searching Authority will deal with matter falling under Rule 9.1. If any such matter has not been so recognized, the International Preliminary Examining Authority may invite the applicant to remove such matter. The applicant should be informed of the category applied under which the prohibited matter is to be removed

[CHAPTER 20 EXCLUSIONS FROM, AND LIMITATIONS OF, INTERNATIONAL SEARCH AND INTERNATIONAL PRELIMINARY EXAMINATION

Introduction

Article 17(2), 34(4)

20.01 The aim of the Authority should be to issue international search reports and international preliminary reports on patentability that are as complete as possible. Nevertheless there are certain situations in which no search is issued, or in which the search, written opinion or international preliminary examination report covers only a part of the subject matter that a report would usually cover. This may be either because the international application includes subject matter which the Authority is not required to deal with (see paragraphs 20.02-20.09 [XR] below), or else because the description, claims or drawings fail to meet a requirement, such as clarity or support of the claims by the description, to such an extent that no meaningful search can be made (see paragraphs 20.10-20.20 [XR] below). The term "meaningful search" should be read to include a search that within reason is complete enough to determine whether the claimed invention complies with the substantive requirements, i.e., the novelty, inventive step, and industrial applicability requirements, and/or the sufficiency, support and clarity requirements of Articles 5 and 6. Accordingly, a finding of "no meaningful search" should be limited to exceptional situations in which no search at all is possible for a particular claim, for example, where the description, the claims, or the drawings are totally unclear. See paragraphs 20.10-20.16 for further discussion and examples on this issue.

Excluded Subject Matter

Article 17(2)(a)(i), 34(4)(a)(i); Rule 39, 67

20.02 Rule 39 specifies certain subject matter which an ISA is not required to search. Rule 67 sets out an identical list of subject matter, on which an IPEA is not required to perform an international preliminary examination. Any such subject matter which a particular Authority is prepared to search or examine is set forth in an Annex to the Agreement between that Authority and the International Bureau. Therefore, the subject matter excluded from the international search or international preliminary examination may vary between the various Authorities.

20.03 Any such restriction to the search, or to the international preliminary examination should be accompanied by a reasoned explanation in the written opinion or international preliminary examination report issued by the Authority. If no search is to be carried out the search examiner will complete form PCT/ISA/203 (Declaration of Non-Establishment of International Search Report). As a general principle, a search is to be carried out wherever practicable.

20.04 The following subjects may be excluded from international search or preliminary examination on these grounds:

[The sections below have been modified using the terminology of "practical application." The term "technical character" was placed in brackets to attempt to accommodate the practice of different Offices.

Rule 39.1(i), 67.1(i)

(a) Scientific and mathematical theories. The mere presence of scientific or mathematical theories in claims does not immediately exclude the claims from search or preliminary examination. When viewing the claims as a whole, if the theories are applied or implemented to produce a practical application [or to have a technical character], search and preliminary examination is required since the result is not purely abstract or intellectual. Scientific theories, per se, are a more generalized form of discoveries. For example, the physical theory of semi-conductivity would be excluded, whereas new semiconductor devices and processes for manufacturing would require search and preliminary examination. Mathematical theories, per se, are a particular example of the principle that purely abstract or intellectual methods are excluded. For example, a shortcut method of division would be excluded but a calculating machine designed to operate accordingly would require search and preliminary examination.

Rule 39.1(ii), 67.1(ii)

(b) Plant or animal varieties or essentially biological processes for the production of plants and animals, other than microbiological processes. While plant and animal varieties may be excluded from search, transgenic plants and genetically modified non-human animals. as well as methods of making these types of inventions would be searched and examined. The question whether a process is "essentially biological" is one of degree, depending on the extent to which there is technical intervention by man in the process; if such intervention plays a significant part in determining or controlling the result it is desired to achieve, the process would not be excluded. For example, a method of selectively breeding horses involving merely selecting for breeding and bringing together those animals having certain characteristics would be essentially biological. However, a method of treating a plant characterized by the application of a growth-stimulating substance or radiation would not be essentially biological since, although a biological process is involved, the essence of the claimed invention is technical. Similarly, methods of cloning or genetically manipulating non-human animals are not essentially biological processes and would be searched and examined. The treatment of soil by technical means to suppress or promote the growth of plants is also not excluded. The exclusion referred to above does not apply to microbiological processes or the products thereof. The term "microbiological process" is to be interpreted as covering not only industrial processes using microorganisms but also processes for producing microorganisms, for example, by genetic engineering. The product of a microbiological process may also be subject to search and preliminary examination (product claim). Propagation of the microorganism itself is to be construed as a microbiological process for the purposes of Rules 39 and 67; consequently, the microorganism can be protected per se as it is a product obtained by a microbiological process. The term "microorganism" covers plasmids and viruses also.

Rule 39.1(iii), 67.1 (iii)

(c) Schemes, rules or methods of doing business, performing purely mental acts or playing games. These are further examples of items of an abstract or intellectual character if no practical application [or technical character] is found when viewing the claims as a whole. Note that it is not the particular art involved or classification of claimed invention that is determinative of exclusion, but rather whether the claimed invention is of an abstract character. In particular, a game as an abstract entity defined by its rules could be excluded. However, novel apparatus which only carries out a method that lacks industrial applicability or is directed to excluded subject matter would not require search and preliminary examination. Nevertheless, a novel apparatus which carried out a method having industrial applicability and directed to non-excluded subject matter would require preliminary search

and preliminary examination. Similarly, a theory or method of doing business or related to business functions claimed in isolation without any practical application [or technical character] could be excluded while a computer-implemented method or apparatus for performing a business related function with a practical application [or technical character] would require search and preliminary examination.

Rule 39.1(iv), 67.1(iv)

(d) Methods for treatment of the human or animal body by surgery or therapy as well as diagnostic methods practiced on the human or animal body are further subject matter on which an Authority is not required to carry out international search or preliminary examination. Search and preliminary examination should, however, be conducted for surgical, therapeutical or diagnostic instruments or apparatus for use in such methods. Search and preliminary examination should also be conducted for new products, particularly substances or compositions for use in these methods of treatment or diagnosis.

Rule 39.1(v), 67.1(v)

Mere presentations of information. Any presentation of information characterized solely by the content of the information would be excluded under Rules 39 and 67. This applies, whether the claim is directed to the presentation of the information per se (for example, by acoustical signals, spoken words, visual displays), to information recorded on a carrier (for example, books characterized by their subject, gramophone records characterized by the musical piece recorded, traffic signs characterized by the warning thereon, magnetic computer tapes characterized by the data or program recorded), or to processes and apparatus for presenting information (for example, indicators or recorders characterized solely by the information indicated or recorded). If, however, the presentation of information has a [technical character or] functional relationship to the information carrier, process or apparatus, or if the carrier, process or apparatus has additional functionality beyond mere presentation of information, these should be examined as the subject matter relates to the information carrier or to the process apparatus for presenting the information. The arrangement or manner of presentation, as distinguished from the information content, may well require search and preliminary examination as the arrangement or manner of presentation can provide Examples in which such a [technical character or] functional relationship may be present are: a telegraph apparatus or communication system characterized by the use of a particular code to present the characters (for example, pulse code modulation); a measuring instrument designed to produce a particular form of graph for presenting the measured information; a gramophone record characterized by a particular groove form to allow stereo recordings; or a diapositive with a sound track arranged at the side of it. Examples in which additional functionality may be present include a computer system for searching gene sequences within a particular library of genetic data (the searching function goes beyond mere presentation of information), and a novel system of using protein structural information in the design of new pharmaceuticals.

Rule 39.1(vi), 67.1(vi)

(f) Programs for computers, to the extent that the Authority is not equipped to carry out search or preliminary examination on such programs. It should be noted at the outset that programs for computers can be expressed in many forms. To the extent that a natural language description of any computer-executable program is included in the disclosure and the claims, the Authority should be equipped to carry out a search and preliminary examination based on such a description. The basic considerations here are exactly the same as for the other exclusions listed in Rule 67, that is, whether the program claimed is solely of [abstract character] or [a mere presentation of information]. Presentations of information can

be characterized as "descriptive material" which can be further characterized as either "functional descriptive material" or "nonfunctional descriptive material." A program containing either functional descriptive material or nonfunctional descriptive material that is not tangibly embodied as a record on a computer-readable carrier would be considered [abstract] or [a mere presentation of information]. However, a program containing only nonfunctional descriptive material (such as a mathermatical theory) that is so tangibly embodied would also be considered [abstract] or [a mere presentation of information]. A program containing functional descriptive material tangibly embodied on a computer-readable carrier would not be considered [abstract] or [a mere presentation of information] and should be searched and examined. In addition, a data-processing operation can be implemented either by means of a computer program or by means of special circuits, and the choice may have nothing to do with the inventive concept but be determined purely by factors of economy or practicality. The technology involved in executing the data-processing operation should not be dispositive as to the exclusion determination. With this point in mind, search and preliminary examination in this area should be performed on any computer program containing functional descriptive material tangibly embodied in a computer-readable carrier Search and preliminary examination should not be denied merely on the grounds that a program is involved in its implementation. This means, for example, that program-controlled machines and program-controlled manufacturing and control processes should normally be regarded as subject matter on which an international preliminary examination can be carried out. It follows also that where the claimed subject matter is concerned only with the programcontrolled internal working of a known computer, the subject matter could be examined if it provides a [technical character or] practical application. As an example, consider the case of a known data-processing system with a small, fast-working memory and a larger, but slower, further memory. Suppose that the two memories are organized under program control in such a way that a process which needs more address space than the capacity of the fast-working memory can be executed at substantially the same speed as if the process data were loaded entirely in that fast memory. The effect of the program in virtually extending the working memory provides a practical application [or technical character] and would, therefore, require preliminary examination. Where search and preliminary examination on such claims is carried out, then, generally speaking, product, process and use claims should also be searched and examined. See, however, in this context, paragraphs III-3.2 and III-4.1 [paragraphs 13.12 and 13.32] [XR][].

20.05 It should be noted that Rules 39.1(iv) and 67.1(iv) (referred to in paragraph 20.04(iv)[XR]) excludes only treatment by surgery or therapy or diagnostic methods. It follows that other methods of treatment of live human beings or animals (for example, treatment of a sheep in order to promote growth, to improve the quality of mutton or to increase the yield of wool) or other methods of measuring or recording characteristics of the human or animal body are appropriate for international search and preliminary examination, provided that (as would probably be the case) such methods are not of essentially biological character (see paragraph 20.04(ii)[XR]). For example, an application containing claims directed to the cosmetic treatment of a human by administration of a chemical product should be searched and examined. A search or preliminary examination on a cosmetic treatment involving surgery need not, however, be carried out see the last sentence of paragraph 20.06 [XR].

20.06 A treatment or diagnostic method, to be excluded, must actually be limited to being carried out on the living human or animal body. A treatment of or diagnostic method practiced on a dead human or animal body would therefore not be excluded from international search and preliminary examination by virtue of Rules 39(1)(iv) and 67.1(iv). Treatment of

body tissues or fluids after they have been removed from the human or animal body, or diagnostic methods applied thereon would not be excluded from the search or preliminary examination insofar as these tissues or fluids are not returned to the same body. Thus, the treatment of blood for storage in a blood bank or diagnostic testing of blood samples is not excluded, whereas a treatment of blood by dialysis with the blood being returned to the same body could be excluded. Diagnostic methods comprise the carrying out of an investigation for medical purposes into the state of a human or animal body, so that a method of measuring the blood pressure of a body or a method of obtaining information regarding the internal state of a body by passing X-rays through the body could be excluded from international search or preliminary examination. A treatment by therapy implies the curing of a disease or malfunction of the body; prophylactic methods, for example, immunization, are considered to be therapeutic treatments and thus may be excluded. Surgery is not limited to healing treatments, being more indicative of the nature of the treatment; methods of cosmetic surgery may thus be excluded from search or preliminary examination.

- Form of claims

20.07 In considering whether subject matter under Rule 39 or 67 is present, there are two general points the examiner must bear in mind. Firstly, he should disregard the form or kind of claim and concentrate on the content in order to identify the subject matter. The first point is illustrated by the examples given in paragraph 20.04(vi) [XR], which illustrate different ways of claiming a computer program. Secondly, any exclusion applies only to the extent that the international application relates to the excluded subject matter. Thus, the exclusion might not apply if the claimed subject matter as a whole provides a practical application [or technical feature] in the useful or technological arts. This is illustrated, for instance, by a gramophone record distinguished solely by the music recorded thereon whereas if the form of the groove were modified so that the record, when used with an appropriate pickup mechanism, functioned in a new way (as in the first stereo record), the claimed subject matter could undergo international search and preliminary examination. For the application of Rules 39 and 67, the examiner should not apply the relevant criteria more restrictively than he would in the case of national applications.

- Excluded Matter in Only Some Claims or Parts of Claims

Article 17(2)(b)

20.08 Where the subject matter of only some of the claims or part of a claim is a subject excluded from the search, this will be indicated in the international search report and written opinion. Search should of course be made in respect of the other claims or other parts of a claim.

Cases of Doubt

20.09 In cases of doubt as to whether subject matter covered by a claim constitutes excluded subject matter, the Authority should carry out the search or preliminary examination to the extent that this is possible using the available documentation.

"Exceptional Situations"

20.10 There may be exceptional situations where the description, the claims or the drawings fail to comply with the prescribed requirements to such an extent that a meaningful search cannot be carried out, i.e, no search at all is possible for a particular claim. To the extent that the description, the claims, or the drawings can be understood, even though a part or parts of

the application are not in compliance with the prescribed requirements, a search in the probable areas relevant to the claimed subject matter should be performed. The written opinion should also indicate, however, how the description, claims, or drawings fail to comply with the prescribed requirements. In this indication, it may be noted by the ISA that non-compliance with the particular prescribed requirements has been taken into account for the purposes of determining the scope of the search.

- Examples Where Search or Preliminary Examination Possible

20.11 Examples:

Example 1

Claim 1. "Distillate fuel oil boiling in the range 120°C to 500°C which has a wax content of at least 0.3 weight% at a temperature of 10°C below the Wax Appearance Temperature, the wax crystals at that temperature having an average particle size less than 4000 nanometers."

The description does not disclose any other method of obtaining the desired crystal size than the addition of certain additives to the fuel oil and there is no common general knowledge of making fuel oils of this kind available to the person skilled in the art.

A search would first be made for fuel oils having defined amounts of the additive disclosed. The field of search would then be extended to all probable areas relevant to the claimed subject matter, i.e., the broad concept of fuel oil compositions having the desired property. However, the search need not be extended to areas in which it could reasonably have been determined that there was a low probability of finding the best reference. If the broad concept of having crystals as small as possible was known in the art, the written opinion should indicate the claim as either not complying with the requirements of novelty and/or inventive step. The written opinion should also include any observations on non-prior art grounds. In this example, the claim would be objected to in the written opinion on the following non-prior art grounds: (1) it is not supported by the description and drawings "in a manner sufficiently clear and complete for the invention to be carried out by a person skilled in the art" (paragraph 13.44 [XR]); and (2) it is not fully supported in the description and drawings thereby showing that the applicant only claims subject matter which he recognized and described on the filing date(paragraph 13.54 [XR] and paragraph 13.58 [XR]). The International Search Report would cite the fields of search, the most relevant references for prior art purposes, and the most relevant references for non-prior art purposes (see Chapter 6, paragraph 6.36 (which indicates that the symbol "T" should be used for designating documents which are of assistance in determining lack of industrial applicability and lack of support by the description), 6.06 (directed to the category symbol to be used for subject matter which may be excluded from the international search)[XR]), which in this example involve a lack of support by the description. The ISA may also include in the objection on non-prior grounds an indication that these objections have been taken into account for purposes of determining the scope of the search.

Example 2

Claim 1: "A process of reacting starting materials in such a way that a sustained release tablet with improved properties is obtained."

The specification discloses an example of reacting particular materials in a particular manner to obtain a sustained release tablet having a particular release rate of a particular bioactive material. (This is an example of a claim which is defined solely by the result to be achieved.)

A search would first be made for the particular materials reacted in the particular manner. If the particular example disclosed could not be found, the search would then be extended. For instance, the search could be extended to sustained release tablets having the particular bioactive material. However, the search does not need to be extended to areas in which it could reasonably have been determined that there was a low probability of finding the best reference. Aside from any opinion on novelty or inventive step, the written opinion should indicate any observations on non-prior art grounds. In this example, the claim would be objected to in the written opinion on the following non-prior art grounds: (1) the claim lacks clarity since (a) the claim fails to recite any positive, active steps such that the scope of the invention is not set forth with a reasonable degree of clarity and particularity (paragraph 13.33 [XR], and (b) the phrase "improved properties" is a relative term (paragraph 13.35 [XR]); and (2) the claim attempts to define the invention solely by the result to be achieved (paragraph 13.36 [XR]). Again, the International Search Report would cite the fields of search, the most relevant references for prior art purposes, and the most relevant references for non-prior art purposes. Also, the ISA may include in the objection on non-prior art grounds an indication that these objections have been taken into account for purposes of determining the scope of the search.

Example 3

Claim 1: "A fat having a nausea index of less than or about 1.0."

The specification discloses a number of fats that purportedly have a nausea index of less than 1.0 and a number of fats which have a nausea index greater than 1.0. Examples of fats having a nausea index of less than 1.0 include different mixtures of saturated and unsaturated fats. Examples of fats having a nausea index greater than 1.0 also include different mixtures of saturated and unsaturated fats. No other properties, e.g., melting point, of these mixtures of fats are disclosed. The specification discloses determining the nausea index by whipping the fat at a particular speed and temperature and measuring the viscosity of the whipped mixture at room temperature. (This is an example of a claim defined solely by unusual parameters.)

A search should first be made for the examples disclosed in the specification as having a nausea index less than or about 1.0. If one of these examples is found in the prior art, an opinion that the claim lacks novelty over the prior art would be made since the same material would be expected to have the same properties. The claim would also be objected to on the following non-prior art grounds: (1) the claimed subject matter is not supported by the description and drawings "in a manner sufficiently clear and complete for the invention to be carried out by a person skilled in the art" over the entire scope of the claim (paragraph 13.44 [XR]); and (2) the claimed invention is not fully supported in the description and drawings thereby showing that the applicant only claims subject matter which he had recognized and described on the filing date (paragraph 13.54, 13.58 [XR]). If one of these examples is not found, the search need not be limited to only the examples simply because a newly described/discovered parameter is used by applicant to explain the invention. A search can usually be performed using other known parameters or chemical or physical properties that may lead to a conclusion that the newly described/discovered parameter is necessarily present,

i.e. inherent. For instance, in this example, perhaps a search using a parameter such as the extent of saturation could be made. Also, the ISA may include in the objection on non-prior art grounds an indication that these objections have been taken into account for purposes of determining the scope of the search.

Example 4

[Complex Markush-type claim]

[a satisfactory approach to these types of claims has not yet been developed. One prong of the approach, however, may involve breaking the claim up into different embodiments under lack of unity. Note newly added Example 23bis in Chapter 21].

- Examples Where No Search At All Is Possible

Example 1

Claim 1: "My invention is worth a million dollars."

Claim 1 is the only claim in the application. The specification discloses a number of inventions which, if claimed, would lack unity of invention.

No search at all is possible for claim 1.

Example 2

Claim 1: "A composition of matter comprising kryptonite."

The specification recites the term "kryptonite". However, the specification fails to define the purported material in terms of any of the elements of the periodic table. The specification also fails to set forth any of the physical properties of the purported material such as density, melting point, etc.

No search at all is possible for claim 1.

- 20.12 More detailed discussions regarding the extent of the search can be found in Chapters 4-6. For searches regarding non-prior art issues, see Chapter 4, paragraphs 4.01 [XR] [and 4.53 [XR]].
- 20.13 More detailed discussions of non-prior art concerns including clarity of the claims, conciseness and number of claims, clear and complete description of the claimed invention, relationship of claims to the disclosure and new matter can be found in Chapter 13, paragraphs 13.32-13.60 [XR].
- 20.14 If the opinion regarding industrial applicability is negative, then any prior art used to establish this should be cited in the search report and the reasoning set forth in the written opinion.
- Informal Clarification

Article 17(2)(a)(ii) and (b), 34(4)(a)(ii) and (b)

20.15 Bearing in mind that without a search and written opinion of the Authority, international preliminary examination will be limited and that the international preliminary report on

patentability (Chapter I of the PCT) should be as useful as possible in the event that there is no demand for international preliminary examination, the Authority may, where it thinks it appropriate in a doubtful case, ask the applicant informally for clarification before making a declaration that a meaningful international search is not possible. At the international preliminary examination stage, if no opinion is possible on the question of novelty, inventive step (non-obviousness) or industrial applicability for all or part of the claimed subject matter because the description of the international application fails to disclose the invention in a manner sufficiently clear and complete for the invention to be carried out by a person skilled in the art, or the claims are so unclear or so inadequately supported by the description, that it is impossible to examine the claimed subject matter as to novelty, inventive step or industrial applicability, the Authority will establish an international preliminary examination report that reflects the inadequate support or other deficiencies for all or part of the claimed subject matter (see paragraph 12.30-12.32 [XR]). The examiner should examine the claimed subject matter to the extent that this is possible and should ask the applicant for clarification at the time of his first written opinion. However, this does not mean that the applicant can be invited or allowed to file amendments before the ISA. Also, the examiner should still make any objections on non-prior art grounds even after clarification by the applicant since the claimed subject matter was unclear until further clarification by applicant.

20.16 A need for clarification as referred to in paragraph 20.15 may arise where there are any kind of defects in the claims which cause difficulty in determining the scope of the claims because of the language used in the claims, for example, obscure, inconsistent, vague or ambiguous expression in the claims. These kinds of defects include cases where the language used in the claims is not clear even after taking the description and drawings (if any) into account.

Unclear Claims

20.17 When the claimed subject matter taken as a whole includes alternatives some of which are a clear realization of the invention as well as other alternatives which are a totally unclear realization of the invention, the search examiner should search the clear realization of the invention. With regard to the unclear features, the examiner should determine the subject of search based on the subject matter which might reasonably be expected to be claimed by amendment taking into account the contents of the description and drawings and the common general knowledge in the relevant technical field and conduct the search based on the determined subject. The written opinions and international preliminary examination report should establish opinions on the novelty, inventive step and industrial applicability of the claims to the extent that this is possible and explain the reasons why the remainder could not be properly assessed.

20.18 For example: if the invention relates to a combination of A + B + C + D in which B is totally obscure no search will be performed. However, if the invention relates to a combination of (A1 or A2) + (B1 or B2), in which A2 is totally obscure, the combinations (A1 + B1) and (A1 + B2) will be searched.

Perpetual Motion

Article 17(2)(a)

20.19 Where an international application pertains to perpetual motion (*perpetuum mobile*), it is not necessarily excluded from searching. The ISA should endeavor to search such an

application unless it is so unclear that the application of the principle of Article 17(2)(a) is required.

Sequence Listings

Rule 13ter.1(c) and (e); Section 208; AI Annex C

20.20 Another situation where a meaningful search or preliminary examination is not possible may arise where the international application contains disclosure of one or more nucleotide and/or amino acid sequences but the applicant does not furnish a listing of the sequence in a written form, and/or a computer readable form, complying with the standard provided for in Annex C of the Administrative Instructions. The ISAshould request the provision of such a sequence listing as soon as possible, before the search and written opinion are established (see Chapter 8). However if the listing is not provided, the Authority should make a meaningful search or preliminary examination to the extent that this is possible. For example, if a named protein is claimed, such a protein could be searched by its name rather than by its sequence.

Declaration of non-establishment of international search report

Article 17(2)(a)

20.21 Subject matter excluded. Where the subject matter of all claims constitutes a subject excluded from the search (see paragraph 20.02 [XR]) or where no meaningful search is possible for all of the claimed subject matter (see paragraph 20.01 [XR]), a declaration of nonestablishment of the international search report must be issued pursuant to Article 17(2)(a) on Form PCT/ISA/203.

Multiple Dependent Claims

Article 17(2)(b), 34(4)(b); Rule 6.4(a)

20.22 Where an international application contains multiple dependent claims drafted in a manner different from that provided for in Rule 6.4(a), second and third sentences, the ISA may make an indication under Article 17(2)(b). Such an indication, however, should only be made if and to the extent to which a meaningful search is not possible. The latter applies also in the case where the national law of the Office acting as ISA does not allow multiple dependent claims to be drafted in the said different manner. Such a case should also be noted in the written opinion, and it will of course only be possible to establish a written opinion or international preliminary examination report on novelty and inventive step to the extent that the claims have in fact been searched.]

CHAPTER 21 UNITY OF INVENTION

[Presently, an examiner must consult two distinct sources, i.e. Annex B of the Administrative Instructions and the Search and Examination Guidelines, for guidance regarding the procedures for and examples of Unity of Invention. In an effort to simplify these important resources, Annex B has been incorporated into the Search and Examination Guidelines. The question as to whether or not Annex B should additionally remain an independent resource as part of the Administrative Instructions has not been resolved.]

Determination of Unity of Invention

Article 17(3)(a), Rule 13, Section 206

21.01 An international application should relate to only one invention or, if there is more than one invention, the inclusion of those inventions in one international application is only permitted if all inventions are so linked as to form a single general inventive concept (Rule 13.1). With respect to a group of inventions claimed in an international application, unity of invention exists only when there is a technical relationship among the claimed inventions involving one or more of the same or corresponding special technical features. The expression "special technical features " is defined in Rule 13.2 as meaning those technical features that define a contribution which each of the inventions, considered as a whole, makes over the prior art. The determination is made on the contents of the claims as interpreted in light of the description and drawings (if any).

Rule 13.2

21.02 Whether or not any particular technical feature makes a "contribution" over the prior art, and therefore constitutes a "special technical feature," should be considered both with respect to the prior art itself, as well as with respect to reasons other than prior art, i.e., requirements under the Treaty, such as sufficient support by the description or industrial applicability. For example, a document discovered in the international search shows that there is a presumption of lack of novelty or inventive step in a main claim, so that there may be no technical relationship left over the prior art among the claimed inventions involving one or more of the same or corresponding special technical features, leaving two or more dependent claims without a single general inventive concept. Similarly, suppose that the examiner can demonstrate either with a document or by scientific knowledge or reasoning that the main claim is not fully supported by the description. (See Chapter 13 for discussion of sufficiency of support in the description and Chapter 17 for discussion of industrial applicability.) There would be no technical relationship among the claimed inventions involving one or more of the same or corresponding special technical features, because, a technical feature cannot constitute a contribution over the prior art if it is not sufficiently supported by the description so as to place the invention in the hands of the public, e.g. where the technical feature is not enabled.

Rule 13.2

21.03 Lack of unity of invention may be directly evident "a priori," that is, before considering the claims in relation to any prior art, or may only become apparent "a posteriori," that is, after taking the prior art into consideration. For example, independent claims to A + X, A + Y, X + Y can be said to lack unity a priori as there is no subject matter common to all claims. In the case of independent claims to A + X and A + Y, unity of invention is present a priori as A is common to both claims. However, if it can be established that A is known, there is lack of unity a posteriori, since A (be it a single feature or a group of features) is not a technical feature that defines a contribution over the prior art.

- 21.04 Although lack of unity of invention should certainly be raised in clear cases, it should neither be raised nor persisted in on the basis of a narrow, literal or academic approach. There should be a broad, practical consideration of the degree of interdependence of the alternatives presented, in relation to the state of the art as revealed by the international search or, in accordance with Article 33(6), by any additional document considered to be relevant. If the common matter of the independent claims is well known and the remaining subject matter of each claim differs from that of the others without there being any unifying novel inventive concept common to all, then clearly there is lack of unity of invention. If, on the other hand, there is a single general inventive concept that appears novel and involves inventive step, then objection of lack of unity does not arise. For determining the action to be taken by the examiner between these two extremes, rigid rules cannot be given and each case should be considered on its merits, the benefit of any doubt being given to the applicant.
- 21.05 From the preceding paragraphs it is clear that the decision with respect to unity of invention rests with the ISA or the IPEA. However, the ISA or IPEA should not raise objection of lack of unity of invention merely because the inventions claimed are classified in separate classification groups or merely for the purpose of restricting the international search to certain classification groups.
- 21.06 Unity of invention has to be considered in the first place only in relation to the independent claims in an international application and not the dependent claims. By "dependent "claim is meant a claim which contains all the features of one or more other claims and contains a reference, preferably at the beginning, to the other claim or claims and then states the additional features claimed (Rule 6.4). The examiner should bear in mind that a claim may also contain a reference to another claim even if it is not a dependent claim as defined in Rule 6.4. One example of this is a claim referring to a claim of a different category (for example, "Apparatus for carrying out the process of Claim 1 ...," or "Process for the manufacture of the product of Claim I ..."). Similarly, in a situation like the plug and socket example in paragraph 13.13 [XR], a claim to the one part referring to the other cooperating part, for example, "plug for cooperation with the socket of Claim 1 ...") is not a dependent claim.
- 21.07 If the independent claims avoid the prior art and satisfy the requirement of unity of invention, no problem of lack of unity arises in respect of any claims that depend on the independent claims. In particular, it does not matter if a dependent claim itself contains a further invention. For example, suppose claim 1 claims a turbine rotor blade shaped in a specified manner, while claim 2 is for a "turbine rotor blade as claimed in claim 1" and produced from alloy Z. Then no objection under Rule 13 arises either because alloy Z was new and its composition was not obvious and thus the alloy itself already contains the essential features of an independent possibly later patentable invention, or because, although alloy Z was not new, its application in respect of turbine rotor blades was not obvious, and thus represents an independent invention in conjunction with turbine rotor blades. As another example, suppose that the main claim defines a process for the preparation of a product A starting from a product B and the second claim reads: "Process according to claim 1 characterized by producing B by a reaction using the product C." In this case, too, no objection arises under Rule 13.1, whether or not the process for preparation of B from C is novel and inventive, since claim 2 contains all the features of claim 1. The subject matter of claim 2 therefore falls within claim 1. Equally, no problem arises in the case of a genus /species situation where the genus claim avoids the prior art and satisfies the requirement of unity of invention. Moreover, no problem arises in the case of a combination subcombination situation where the subcombination claim avoids the prior art and satisfies

the requirement of unity of invention and the combination claim includes all the features of the subcombination.

- 21.08 If, however, an independent claim does not avoid the prior art, then the question whether there is still an inventive link between all the claims dependent on that claim needs to be carefully considered. If there is no link remaining, an objection of lack of unity *a posteriori* (that is, arising only after assessment of the prior art) may be raised. Similar considerations apply in the case of a genus /species or combination /subcombination situation. This method for determining whether unity of invention exists is intended to be applied even before the commencement of the international search. Where a search of the prior art is made, an initial determination of unity of invention, based on the assumption that the claims avoid the prior art, may be reconsidered on the basis of the results of the search of the prior art.
- 21.09 Alternative forms of an invention may be claimed either in a plurality of independent claims, or in a single claim (but see paragraph 13.17) [XR]. In the latter case, the presence of the independent alternatives may not be immediately apparent. In either case, however, the same criteria should be applied in deciding whether or not there is unity of invention, and lack of unity of invention may then also exist within a single claim. Where the claim contains distinct embodiments that are not linked by a single general inventive concept, the objection as to lack of unity of invention should be raised. Rule 13.3 does not prevent an ISA or IPEA or an Office from objecting to alternatives being contained within a single claim on the basis of considerations such as clarity, the conciseness of claims or the claims fee system applicable in that Authority or Office.
- 21.10 Objection of lack of unity of invention does not normally arise if the combination of a number of individual elements is claimed in a single claim (as opposed to distinct embodiments as discussed in the paragraph immediately above), even if these elements seem unrelated when considered individually (see paragraph 4.25). [XR]

Illustrations of Particular Situations.

- 21.11 There are three particular situations for which the method for determining unity of invention contained in Rule 13.2 is explained in greater detail:
 - (i) combinations of different categories of claims;
 - (ii) so-called "Markush practice;" and
 - (iii) intermediate and final products.

Principles for the interpretation of the method contained in Rule 13.2, in the context of each of those situations are set out below. It is understood that the principles set out below are, in all instances, interpretations of and not exceptions to the requirements of Rule 13.2. Examples to assist in understanding the interpretation on the three areas of special concern referred to in the preceding paragraph are set out below.

21.12 Combinations of Different Categories of Claims. The method for determining unity of invention under Rule 13 shall be construed as permitting, in particular, the inclusion of any one of the following combinations of claims of different categories in the same international application:

- (i) in addition to an independent claim for a given product, an independent claim for a process specially adapted for the manufacture of the said product, and an independent claim for a use of the said product; or
- (ii) in addition to an independent claim for a given process, an independent claim for an apparatus or means specifically designed for carrying out the said process; or
- (iii) in addition to an independent claim for a given product, an independent claim for a process specially adapted for the manufacture of the said product and an independent claim for an apparatus or means specifically designed for carrying out the said process.

A process is specially adapted for the manufacture of a product if it inherently results in the product and an apparatus or means is specifically designed for carrying out a process if the contribution over the prior art of the apparatus or means corresponds to the contribution the process makes over the prior art.

- 21.13 Thus, a process shall be considered to be specially adapted for the manufacture of a product if the claimed process inherently results in the claimed product with the technical relationship being present between the claimed product and claimed process. The words "specially adapted" are not intended to imply that the product could not also be manufactured by a different process.
- 21.14 Also an apparatus or means shall be considered "specifically designed for carrying out " a claimed process if the contribution over the prior art of the apparatus or means corresponds to the contribution the process makes over the prior art. Consequently, it would not be sufficient that the apparatus or means is merely capable of being used in carrying out the claimed process. However, the expression "specifically designed " does not imply that the apparatus or means could not be used for carrying out another process, nor that the process could not be carried out using an alternative apparatus or means.
- 21.15 More extensive combinations than those set forth in paragraph 21.12 [XR] should be looked at carefully to ensure that the requirements of both Rule 13 (unity of invention) and Article 6 (conciseness of claims) are satisfied. (See paragraph 13.42 regarding conciseness of claims.) In particular, while a single set of independent claims according to one of the subparagraphs of paragraph 21.12 [XR] is always permissible, it does not require the ISA or the IPEA to accept a plurality of such sets which could arise by combining the provisions of Rule 13.3 (which provides that the determination of unity of invention be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim), with the provisions set out in paragraph 21.12 [XR] (thus resulting in a set under paragraph 21.12 [XR] based on each of a number of independent claims in the same category under Rule 13.3 (see paragraph 13.12) [XR]). The proliferation of claims arising from a combined effect of this kind should be accepted only exceptionally. For example, independent claims are permissible for two related articles such as a transmitter and receiver; however, it does not follow that, under paragraph 21.12 [XR], an applicant may include also, in the one international application, four additional independent claims: two for a process for the manufacture of the transmitter and the receiver, respectively, and two for use of the transmitter and receiver, respectively.
- 21.16 It is essential that a single general inventive concept link the claims in the various categories and in this connection the wording of paragraph 21.12 [XR] should be carefully noted. The link between product and process in subparagraph (i) is that the latter must be

"specially adapted for the manufacture of" the former (see paragraph 13.34) [XR]. Similarly, in paragraph 21.12 [XR], subparagraph (ii), the apparatus or means claimed must be "specifically designed for" carrying out the process. Likewise, in subparagraph (iii), the process must be "specially adapted for the manufacture of)" the product and the apparatus must be "specifically designed for" carrying out the process. In combinations (i) and (iii), the emphasis is on, and the essence of the invention should primarily reside in, the product, whereas in combination (ii) the emphasis is on, and the invention should primarily reside in, the process. (See Examples below.)

- 21.17 "Markush Practice." Rule 13.2 also governs the situation involving a single claim that defines alternatives (chemical or non-chemical), the so-called "Markush practice." In this special situation, the requirement of a technical interrelationship and the same or corresponding special technical features as defined in Rule 13.2, shall be considered met when the alternatives are of a similar nature.
- (a) When the Markush grouping is for alternatives of chemical compounds, they shall be regarded as being of a similar nature where the following criteria are fulfilled:
 - (i) all alternatives have a common property or activity, and
 - A. a common structure is present, i.e., a significant structural element is shared by all of the alternatives; or
 - B. in cases where the common structure cannot be the unifying criteria, all alternatives belong to a recognized class of chemical compounds in the art to which the invention pertains.
- (b) In paragraph (a)(i)(A), above, the words "significant structural element is shared by all of the alternatives" refer to cases where the compounds share a common chemical structure which occupies a large portion of their structures, or in case the compounds have in common only a small portion of their structures, the commonly shared structure constitutes a structurally distinctive portion in view of existing prior art. The structural element may be a single component or a combination of individual components linked together.
- (c) In paragraph (a)(i)(B), above, the words "recognized class of chemical compounds" mean that there is an expectation from the knowledge in the art that members of the class will behave in the same way in the context of the claimed invention. In other words, each member could be substituted one for the other, with the expectation that the same intended result would be achieved.
- (d) The fact that the alternatives of a Markush grouping can be differently classified shall not, taken alone, be considered to be justification for a finding of a lack of unity of invention.
- (e) When dealing with alternatives, if it can be shown that at least one Markush alternative is not novel over the prior art, the question of unity of invention shall be reconsidered by the examiner. Reconsideration does not necessarily imply that an objection of lack of unity shall be raised.

(See Examples below.)

- 21.18 *Intermediate and Final Products*. Rule 13.2 also governs the situation involving intermediate and final products.
- (a) The term "intermediate" is intended to mean intermediate or starting products. Such products have the ability to be used to produce final products through a physical or chemical change in which the intermediate loses its identity.
- (b) Unity of invention shall be considered to be present in the context of intermediate and final products where the following two conditions are fulfilled:
- (i) the intermediate and final products have the same essential structural element, in that:
 - A. the basic chemical structures of the intermediate and the final products are the same, or
 - B. the chemical structures of the two products are technically closely interrelated, the intermediate incorporating an essential structural element into the final product, and
- (ii) the intermediate and final products the intermediate and final products are technically interrelated, this meaning that the final product is manufactured directly from the intermediate or is separated from it by a small number of intermediates all containing the same essential structural element.
- (c) Unity of invention may also be considered to be present between intermediate and final products of which the structures are not known—for example, as between an intermediate having a known structure and a final product the structure of which is not known, or as between an intermediate of unknown structure and a final product of unknown structure. In order to satisfy unity in such cases, there shall be sufficient evidence to lead one to conclude that the intermediate and final products are technically closely interrelated as, for example, when the intermediate contains the same essential element as the final product or incorporates an essential element into the final product.
- (d) It is possible in a single international application to accept different intermediate products used in different processes for the preparation of the final product, provided that they have the same essential structural element.
- (e) The intermediate and final products shall not be separated, in the process leading from one to the other, by an intermediate that is not new.
- (f) If the same international application claims different intermediates for different structural parts of the final product, unity shall not be regarded as being present between the intermediates.
- (g) If the intermediate and final products are families of compounds, each intermediate compound shall correspond to a compound claimed in the family of the final products. However, some of the final products may have no corresponding compound in the family of the intermediate products so that the two families need not be absolutely congruent.

As long as unity of invention can be recognized applying the above interpretations, the fact that, besides the ability to be used to produce final products, the intermediates also exhibit other possible effects or activities shall not affect the decision on unity of invention.

Examples Concerning Unity of Invention

[New examples may be supplied to further illustrate a finding of lack of unity due to non-compliance with Treaty requirements, such as sufficient support by the disclosure or industrial applicability. Also, further examples illustrating a determination of lack of unity *a posteriori* may be added.]

21.19 The application of the principles of unity of invention is illustrated by the following examples for guidance in particular cases.

Claims in Different Categories

- Example 1
 - Claim 1: A method of manufacturing chemical substance X.
 - Claim 2: Substance X.
 - Claim 3: The (method of) use of substance X as an insecticide.

Unity exists between claims 1, 2 and 3. The special technical feature common to all the claims is substance X. However, if substance X is known in the art, unity would be lacking because there would not be a special technical feature common to all the claims.

- Example 2
 - Claim 1: A process of manufacture comprising steps A and B.
 - Claim 2: Apparatus specifically designed for carrying out step A.
 - Claim 3: Apparatus specifically designed for carrying out step B.

Unity exists between claims 1 and 2 or between claims 1 and 3. There is no unity between claims 2 and 3 since there exists no common special technical feature between the two claims.

- Example 3
 - Claim 1: A process for painting an article in which the paint contains a new rust inhibiting substance X including the steps of atomizing the paint using compressed air, electrostatically charging the atomized paint using a novel electrode arrangement A and directing the paint to the article.
 - Claim 2: A paint containing substance X.
 - Claim 3: An apparatus including electrode arrangement A.

Unity exists between claims 1 and 2 where the common special technical feature is the paint containing substance X or between claims 1 and 3 where the common special technical

feature is the electrode arrangement A. However, unity is lacking between claims 2 and 3 since there exists no common special technical feature between them.

- Example 4
 - Claim 1: Use of a family of compounds X as insecticides.
 - Claim 2: Compound X_1 belonging to family X.

Provided X_1 has the insecticidal activity and the special technical feature in claim 1 is the insecticidal use, unity is present.

- Example 5
 - Claim 1: A process for treating textiles comprising spraying the material with a particular coating composition under special conditions (e.g., as to temperature, irradiation).
 - Claim 2: A textile material coated according to the process of claim 1.
 - Claim 3: A spraying machine for use in the process of claim 1 and characterized by a new nozzle arrangement providing a better distribution of the composition being sprayed.

The process according to claim 1 imparts unexpected properties to the product of claim 2. The special technical feature in claim 1 is the use of special process conditions corresponding to what is made necessary by the choice of the particular coating. Unity exists between claims 1 and 2. The spraying machine in claim 3 does not correspond to the above identified special technical feature. Unity does not exist between claim 3 and claims 1 and 2.

- Example 6
 - Claim 1: A fuel burner with tangential fuel inlets into a mixing chamber.
 - Claim 2: A process for making a fuel burner including the step of forming tangential fuel inlets into a mixing chamber.
 - Claim 3: A process for making a fuel burner including casting step A.
 - Claim 4: An apparatus for carrying out a process for making a fuel burner including feature X resulting in the formation of tangential fuel inlets.
 - Claim 5: An apparatus for carrying out a process for making a fuel burner including a protective housing B.
 - Claim 6: A process of manufacturing carbon black including the step of tangentially introducing fuel into a mixing chamber of a fuel burner.

Unity exists between claims 1, 2, 4, and 6. The special technical feature common to all the claims is the tangential fuel inlets. Claims 3 and 5 lack unity with claims 1, 2, 4, and 6 since claims 3 and 5 do not include the same or corresponding special technical feature as set forth in claims 1, 2, 4, and 6. Claims 3 and 5 would also lack unity with one another.

- Example 7

Claim 1: A high corrosion resistant and high strength ferritic stainless steel strip consisting essentially of, in percent by weight: Ni=2.0-5.0; Cr=15-19; Mo=1-2; and the balance Fe having a thickness of between 0.5 and 2.0 mm and a 0.2% yield strength in excess of 50 kg/mm squared.

Claim 2: A method of producing a high corrosion resistant and high strength ferritic stainless steel strip consisting essentially of, in percent by weight: Ni=2.0-5.0; Cr=15-19; Mo=1-2; and the balance Fe, comprising the steps of:

hot rolling to a thickness between 2.0 and 5.0 mm;

annealing the hot rolled strip at 800-1000°C under substantially no oxidizing conditions;

cold rolling the strip to a thickness of between 0.5 and 2.0 mm; and

final annealing the cold rolled strip at between 1120 and 1200°C for a period of 2-5 minutes.

Unity exists between product claim 1 and process claim 2. The special technical feature in the product claim is the 0.2% yield strength in excess of 50 kg/mm squared. The process steps in claim 2 inherently produce a ferritic stainless steel strip with a 0.2% yield strength in excess of 50 kg/mm squared. Even if this feature is not apparent from the wording of claim 2, it is clearly disclosed in the description. Therefore said process steps are the special technical feature which correspond to the limitation in the product claim directed to the same ferritic stainless steel with the claimed strength characteristics.

– Example 7bis

[Placeholder for Bioinformatics example]

Claims in the Same Category

- Example 8

Claim 1: Plug characterized by feature A.

Claim 2: Socket characterized by corresponding feature A.

Feature A is a special technical feature that is included in both claims 1 and 2 and therefore unity is present.

- Example 9

Claim 1: Transmitter provided with time axis expander for video signals.

Claim 2: Receiver provided with time axis compressor for video signals received.

Claim 3: Transmission equipment for video signals comprising a transmitter provided with time axis expander for video signals and a receiver provided with time axis compressor for video signals received.

The special technical features are in claim 1 the time axis expander, and in claim 2 the time axis compressor, which are corresponding technical features. Unity exists between claims 1 and 2. Claim 3 includes both special technical features and has unity with claims 1 and 2. The requirement for unity would still be met in the absence of the combination claim (claim 3).

- Example 10
 - Claim 1: Conveyor belt with feature A.
 - Claim 2: Conveyor belt with feature B.
 - Claim 3: Conveyor belt with features A + B.

Feature A is a special technical feature and feature B is another unrelated special technical feature. Unity exists between claims 1 and 3 or between claims 2 and 3, but not between claims 1 and 2.

- Example 11
 - Claim 1: Control circuit A for a d.c. motor.
 - Claim 2: Control circuit B for a d.c. motor.
 - Claim 3: An apparatus including a d.c. motor with control circuit A.
 - Claim 4: An apparatus including a d.c. motor with control circuit B.

Control circuit A is a special technical feature and control circuit B is another unrelated special technical feature. Unity exists between claims 1 and 3 or between claims 2 and 4, but not between claims 1 and 2 or 3 and 4.

- Example 12
 - Claim 1: A display with features A + B.
 - Claim 2: A display according to claim 1 with additional feature C.
 - Claim 3: A display with features A + B with additional feature D.

Unity exists between claims 1, 2, and 3. The special technical feature common to all the claims is features A + B.

- Example 13
 - Claim 1: Filament A for a lamp.
 - Claim 2: Lamp B having filament A.
 - Claim 3: Searchlight provided with lamp B having filament A and a swivel arrangement C.

Unity exists between claims 1, 2, and 3. The special technical feature common to all the claims is the filament A.

- Example 14

Claim 1: A marking device for marking animals, comprising a disc-shaped element with a stem extending normally therefrom, the tip of which is designed to be driven through the skin of the animal to be marked, and a securing disk element to be fastened to the protruding tip of the stem on the other side of skin.

Claim 2: An apparatus for applying the marking device of claim 1, constructed as a pneumatically actuated gun for driving the stem of the disc-shaped element through the skin, and provided with a supporting surface adapted for taking up a securing disc element, to be placed at the other side of the body portion in question of the animal to be marked.

The special technical feature in claim 1 is the marking device having a disc-shaped element with a stem and a securing disc element to be fastened to the tip of the stem. The corresponding special technical feature in claim 2 is the pneumatically actuated gun for driving the marking device and having a supporting surface for the securing disc element. Unity exists between claims 1 and 2.

- Example 15

Claim 1: Compound A.

Claim 2: An insecticide composition comprising compound A and a carrier.

Unity exists between claims 1 and 2. The special technical feature common to all the claims is compound A.

- Example 16

Claim 1: An insecticide composition comprising compound A (consisting of $a_1, a_2...$) and a carrier.

Claim 2: Compound a₁.

All compounds A are not claimed in the product claim 2 for reasons of lack of novelty of some of them for instance. There is nevertheless still unity between the subject matter of claims 1 and 2 provided a_1 has the insecticidal activity that is also the special technical feature for compound A in claim 1.

– Example 17

Claim 1: Protein X

Claim 2: DNA sequence encoding protein X.

[A revision of the reasoning is currently being redrafted.]

- Example 17bis

Claim 1: A chair with a lifting mechanism.

Claim 2: A chair with a mechanical screw lifting mechanism.

Claim 3: A chair with a hydraulic lifting mechanism.

Unity exists between claims 1-3. The special technical feature common to all the claims is the lifting mechanism. However, if any lifting mechanism is known in the art, unity would be lacking because there would not be a special technical feature common to all the claims.

Markush Practice

Mun	ash I ractice
_	Example 18 – common structure:
	Claim 1: A compound of the formula:
	wherein R^1 is selected from the group consisting of phenyl, pyridyl, thiazolyl, triazinyl, alkylthio, alkoxy, and methyl; R^2 - R^4 are methyl, benzyl, or phenyl. The compounds are useful as pharmaceuticals for the purpose of enhancing the capacity of the blood to absorb oxygen.
	is case the indolyl moiety is the significant structural element that is shared by all of the natives. Since all the claimed compounds are alleged to possess the same utility, unity is int.
_	Example 19 – common structure:
	Claim 1: A compound of the formula:

wherein R_1 is selected from the group consisting of phenyl, pyridyl, thiazolyl, triazinyl, alkylthio, alkoxy, and methyl; Z is selected from the group consisting of oxygen (O), sulfur (S), imino (NH), and methylene (-CH2-). The compounds are alleged to be useful as pharmaceuticals for relieving lower back pain.

In this particular case the iminothioether group -N=C-SCH3 linked to a six atom ring is the significant structural element which is shared by all the alternatives. Thus, since all the claimed compounds are alleged to possess the same use, unity would be present. A six membered heterocyclic ring would not have been of sufficient similarity to allow a Markush grouping exhibiting unity, absent some teaching of equivalence in the prior art.

[Clarification of this last sentence is requested. That sentence could be understood to mean that the six membered ring, as part of the significant structural element, "would not have been of sufficient similarity to allow a Markush grouping exhibiting unity, absent some

teaching of equivalence in the prior art." However, that sentence could also be understood to mean that the six membered ring alone, *as such*, "would not have been of sufficient similarity to allow a Markush grouping exhibiting unity, absent some teaching of equivalence in the prior art."]

– Example 20 – common structure
Claim 1: A compound of the formula:
wherein R^1 is methyl or phenyl, X and Z are selected from oxygen (O) and sulfur (S).
The compounds are useful as pharmaceuticals and contain the 1,3-thiazolyl substituent which provides greater penetrability of mammalian tissue which makes the compounds useful as relievers for headaches and as topical anti-inflammatory agents.
All compounds share a common chemical structure, the thiazole ring and the six atom heterocyclic compound bound to an imino group, which occupy a large portion of their structure. A six membered heterocyclic ring would not have been of sufficient similarity to allow a Markush grouping exhibiting unity, absent some teaching of equivalence in the prior art.
[The same confusion exists in this example as in Example 19 as to the interpretation of the original language, and therefore, should be clarified. In any event, for the purpose of further guidance to the examiner, the following sentence is proposed to be added after the last sentence: "However, in this example, the equivalence of O and S is well known in the art, thereby allowing a Markush grouping exhibiting unity."]
– Example 21 – common structure:
All of the above copolymers have in common a thermal degradation resistance property, due to the reduced number of free COOH radicals by esterification with X of the end COOH

All of the above copolymers have in common a thermal degradation resistance property, due to the reduced number of free COOH radicals by esterification with X of the end COOH radicals which cause thermal degradation. The chemical structures of the alternatives are considered to be technically closely interrelated to one another. A grouping in one claim is therefore allowed.

- Example 22 – common structure

The compound	obtained by este	rifying the end COO	OH radical of known	
]	
	leneterephthalate tv. due to the red		LCH ₂ O- has a thermal decOOH radicals which	C
degradation. In	contrast, the con	npound obtained by	esterifying the end COC	OH radical of
known polyhex	amethyleneterep	hthalate with a vinyl	l compound containing a	a CH2 = CH-
	CH ₂ O- moiety se	erves as a raw mater	rial for a setting resin wh	nen mixed with
unsaturated mo	nomer and cured	(addition reaction)		

All esters covered by the claim do not have a property or activity in common. For example, the product obtained through esterification with the " $CH_2 = CH$ " vinyl compound does not have a thermal degradation resistant property. The grouping in a single application is not allowed.

– Example 23 – no common structure

Claim 1: A herbicidal composition consisting essentially of an effective amount of the mixture of A 2,4-D(2,4-dichloro-phenoxy acetic acid) and B a second herbicide selected from the group consisting of copper sulfate, sodium chlorate, ammonium sulfamate, sodium trichloroacetate, dichloropropionic acid, 3-amino-2,5-dichlorobenzoic acid, diphenamid (an amide), ioxynil (nitrile), dinoseb (phenol), trifluralin (dinitroaniline), EPTC (thiocarbamate), and simazine (triazine) along with an inert carrier or diluent.

The different components under B must be members of a recognized class of compounds. Consequently in the present case a unity objection would be raised because the members of B are not recognized as a class of compounds, but, in fact, represent a plurality of classes which may be identified as follows:

- (i) inorganic salts:
 copper sulfate
 sodium chlorate
 ammonium sulfamate
- (ii) organic salts and carboxylic acids: sodium trichloroacetate dichloropropionic acid 3-amino-2,5-dichlorobenzoic acid

- (iii) amides: diphenamid
- (iv) nitriles: ioxynil
- (v) phenols: dinoseb
- (vi) amines: trifluralin
- (vii) heterocyclic: simazine

[- Example 23bis

Claim1. A pharmaceutical compound of the formula: A - B - C - D - E, wherein:

A is selected from C_1 - C_{10} alkyl or alkenyl or cycloalkyl, substituted or unsubstituted aryl or C_5 - C_7 heterocycle having 1-3 heteroatoms selected from O and N;

B is selected from C_1 - C_6 alkyl or alkenyl or alkynyl, amino, sulfoxy, C_3 - C_8 ether or thioether;

C is selected from C_5 - C_8 saturated or unsaturated heterocycle having 1-4 heteroatoms selected from O, S or N or is a substituted or unsubstituted phenyl;

D is selected from B or a C₄-C₈ carboxylic acid ester or amide; and

E is selected from substituted or unsubstituted phenyl, naphthyl, indolyl, pyridyl, or oxazolyl.

From the above formula no significant structural element can be readily ascertained and thus no special technical feature can be determined. Lack of unity exists between all of the various combinations. The first claimed invention would be considered to encompass the first mentioned structure for each variable, i.e. A is C_1 alkyl, B is C_1 alkyl, C is a C_5 saturated heterocycle having one O heteroatom, D is C_1 alkyl, and E is a substituted phenyl.]

- Example 24

Claim 1: Catalyst for vapor phase oxidation of hydrocarbons, which consists of (X) or (X+a).

In this example (X) oxidizes RCH3 into RCH2OH and (X+a) oxidizes RCH3 further into RCOOH.

Both catalysts share a common component and a common activity as oxidation catalyst for RCH3. With (X+a) the oxidation is more complete and goes until the carboxylic acid is formed but the activity still remains the same.

A Markush grouping is acceptable.

[- Example 24bis – no common property or activity

ESTs

Claim 1: An isolated nucleic acid selected from the group consisting of SEQ ID NOs: 1-100.

According to the description, each of the isolated nucleic acids represented by SEQ ID Nos: 1-100 are between 100 and 500 nucleotides in length. Each claimed nucleic acid represents a small portion of a cDNA molecule present within a particular cell. All of these sequences are derived from independent RNA molecules.

The special technical feature present in each nucleic acid is dependent upon its primary nucleotide sequence. The disclosure does not describe any common property or activity shared by all the claimed nucleic acids and there is no shared significant structural element. Further, the nucleic acids are not members of a recognized class of chemical compounds that that would be expected to behave in the same way in the context of the claimed invention. Therefore, there is a lack of unity between the separately claimed nucleic acids.]

[- Example 24ter - no common property or activity

Single Nucleotide Polymorphisms

Claim 1: An isolated nucleic acid molecule comprising SEQ ID NO: 1 except for a single polymorphic change at one of the positions as shown below:

Polymorphism	Position	Change from the nucleotide in SEQ ID NO: 1 to
1	10	G
2	27	A
3	157	C
4	234	T
5	1528	G
6	3498	C
7	13524	T
8	14692	A.

According to the description, SEQ ID NO: 1 is 22,930 nucleotides in length and is known in the prior art. The single nucleotide polymorphisms 1-8 are uncharacterized, i.e. no common property or activity has been identified. One of ordinary skill in the art would reasonably expect that single point mutations in different positions of a gene would result in not only changes to the regulation and expression of the gene, but phenotypic changes as well, including increasing or decreasing sensitivity to or modification of the propensity for side effects from a drug. Therefore, because the requirement under Rule 13.2 for the same or corresponding special technical feature is not met due to the fact that the alternatives of the Markush grouping are not of a similar nature, i.e. the alternatives are not known to have a common property or activity, unity of invention is lacking between polymorphisms 1-8.]

[- Example 24quater – no common property or activity

Haplotypes

Claim 1: An isolated nucleic acid molecule comprising Gene DEF, SEQ ID NO: 2 except for the panel of polymorphic changes at each set of positions (haplotypes) shown below:

Position	Haplotype 1	Haplotype 2	Haplotype 3	Haplotype 4	Haplotype 5
23	A	T	A	A	A
47	G	G	С	С	G
89	G	С	С	G	С
213	С	С	С	G	G
605	T	A	T	A	T
788	A	G	A	G	A
1592	G	G	G	G	С

According to the description, SEQ ID NO: 2 is 3,267 nucleotides in length and is known in the prior art. The set of variants (haplotypes 1-5) has been identified by the Human DNA Sequencing Project, however, no common property or activity has been identified. One of ordinary skill in the art would reasonably expect that single point mutations in different positions of a gene would result in not only changes to the regulation and expression of the gene, but phenotypic changes as well, including increasing or decreasing sensitivity to or modification of the propensity for side effects from a drug. Therefore, because the requirement under Rule 13.2 for the same or corresponding special technical feature is not met due to the fact that the alternatives of the Markush grouping are not of a similar nature, i.e. the alternatives are not known to have a common property or activity, unity of invention is lacking between haplotypes 1-5.]

Intermediate/Final Product

– Example 25
Claim 1:

Claim 2:

The chemical structures of the intermediate and final product are technically closely interrelated. The essential structural element incorporated into the final product is:

Γher	efore, unity ex	ists between claims 1 and 2
_	Example 26	
	Claim 1:	
	Claim 2:	

(II) is described as an intermediate to make (I). The closure mechanism is one well known in the art. Though the basic structures of compound (I) (final product) and compound (II) (intermediate) differ considerably, compound (II) is an open ring precursor to compound (I). Both compounds share a common essential structural element that is the linkage comprising the two phenyl rings and the triazole ring. The chemical structures of the two compounds are therefore considered to be technically closely interrelated.

The example therefore satisfies the requirement for unity of invention.

- Example 27

Claim 1: Amorphous polymer A (intermediate).

Claim 2: Crystalline polymer A (final product).

In this example a film of the amorphous polymer A is stretched to make it crystalline. Here unity exists because there is an intermediate final product relation in that amorphous polymer A is used as a starting product to prepare crystalline polymer A.

For purposes of further illustration, assume that the polymer A in this example is polyisoprene. Here the intermediate, amorphous polyisoprene, and the final product, crystalline polyisoprene, have the same chemical structure.

- Example 28

•	eric compound useful as fiber material identified by the following.
general formula	
-	ound identified by the following general formula: nediate for polymeric compound I)

The two inventions are in an intermediate and final product relationship.

Substance (II) is a raw material for substance (I).

Meanwhile, both compounds share an essential structural element (repeating unit (X)) and are technically closely interrelated. The intermediate and final products therefore satisfy the requirements for unity.

- Example 29
 - Claim 1: Novel compound having structure A (Intermediate).
 - Claim 2: Product prepared by reacting A with a substance X (Final Product).
- Example 30
 - Claim 1: Reaction product of A and B (Intermediate).
 - Claim 2: Product prepared by reacting the reaction product of A and B with substances X and Y (Final Product).

In examples 29 and 30 the chemical structure(s) of the intermediate and/or the final product is not known. In (29) the structure of the product of claim 2 (the final product) is not known. In (30) the structures of the products of claim 1 (the intermediate) and claim 2 (the final product) are unknown. Unity exists if there is evidence that would lead one to conclude that the characteristic of the final product which is the inventive feature in the case is due to the intermediate. For example, the purpose for using the intermediates in (29) or (30) is to modify certain properties of the final product. The evidence may be in the form of test data in the specification showing the effect of the intermediate on the final product. If no such evidence exists then there is no unity on the basis of an intermediate-final product relationship.

Process at International Search Stage

Article 17(3)(a), Rule 16, 40.2, 40.3, 42

- 21.20 Invitation to pay additional fees. After deciding that lack of unity exists, the ISA will inform the applicant of the lack of unity of invention by a communication, preceding the issuance of the international search report and written opinion (ISA), which will contain an invitation to pay additional fees (Form PCT/ISA/206; see the filled-in sample in Annex B to these Guidelines) [XR]. This invitation must specify the reasons (see paragraph 21.26 [XR]) for which the international application is not considered as complying with the requirement of unity of invention, identify the separate inventions and indicate the number of additional search fees and the amount to be paid. The ISA may not hold the application withdrawn for lack of unity of invention, nor invite the applicant to amend the claims; but must inform the applicant that, if the international search report is to be drawn up in respect of those inventions present other than the first mentioned, then the additional fees must be paid within a stipulated period.
- 21.21 If preferred, the said invitation may be already accompanied by a notification of the result of a partial international search drawn up for those parts of the international application which relate to what is to be considered as the "first" invention. (See the sample of a filled-in form in Annex B to these Guidelines. [XR]) The result of the partial international search will be very useful for the applicant in deciding whether additional search fees should be paid so that further parts of the international application would be subjected to the international search. The invention(s) or group(s) of inventions, other than the one first mentioned in the claims, will be searched, subject to paragraphs 21.27 [XR] and 21.28 [XR], only if the applicant pays the additional fees. Thus, whether the lack of unity of invention is directly evident "a priori" or becomes apparent "a posteriori," the examiner, may proceed in one of two ways: he may immediately inform the applicant of his finding and invite him to pay additional search fees (with Form PCT/ISA/206; see the filled-in sample in Annex B to these Guidelines [XR]) and search or continue to search the invention first mentioned in the claims ("main invention"); or alternatively, he may carry out the search on the "main invention" and draw up a partial international search report which will be sent together with the invitation to pay additional search fees (with Form PCT/ISA/206; see the filled-in sample in Annex B to these Guidelines [XR]).
- 21.22 Since these payments must take place within a period to be set by the ISA so as to enable the observation of the time limit for establishing the international search report set by Rule 42, the ISA should endeavor to ensure that international searches be made as early as possible after the receipt of the search copy. The ISA shall finally draw up the international search report and written opinion on those parts of the international application which relate to inventions in respect of which the search fee and any additional search fee have been paid. The international search report and written opinion identifies the separate inventions or groups of inventions forming unity and indicates those parts of the international application for which a search has been made. If no additional search fee has been paid, the international search report and written opinion will contain only the references relating to the invention first mentioned in the claims.
- 21.23 In the invitation to pay additional fees, the ISA should set out a logically presented, technical reasoning containing the basic considerations behind the finding of lack of unity. See the sample of a filled-in form in Annex B to these Guidelines [XR]. Rule 40.2(b)

- 21.24 Reasons of economy. Reasons of economy may make it advisable for the search examiner, while making the search for the main invention, to search at the same time, despite the nonpayment of additional fees, one or more additional inventions in the classification units consulted for the main invention if this takes little or no additional search effort. The international search for such additional inventions will then have to be completed in any further classification units which may be relevant, when the additional search fees have been paid. This situation may occur when the lack of unity of invention is found either "a priori" or "a posteriori."
- 21.25 Negligible additional work. Occasionally in cases of lack of unity of invention, especially in an "a posteriori" situation, the search examiner will be able to make a complete international search for more than one invention with negligible additional work, in particular, when the inventions are conceptually very close. In those cases, the search examiner may decide to complete the international search for the additional invention(s) together with that for the invention first mentioned. All results should then be included in the international search report without inviting the applicant to pay an additional search fee in respect of the additional inventions searched but stating the finding of lack of unity of invention. Such statement should only be made, however, where the lack of unity is beyond doubt.

Protest ProcedureRule 40.2(c)

21.26 Protest. The applicant may protest the allegation of lack of unity of invention or that the number of required additional fees is excessive and request a refund of the additional fee(s) paid. If, and to the extent that, the ISA finds the protest justified, the fee(s) will be refunded. (The additional search fees must be paid for any protest to be considered.)

Rule 40.2(c)

21.27 Protest contains a reasoned statement. Protest of allegation of lack of unity is in the form of a reasoned statement accompanying payment of the additional fee, explaining why the applicant believes that the requirements of unity of invention are fulfilled and fully taking into account the reasons indicated in the invitation to pay additional fees issued by the ISA.

Rule 40.2(c

21.28 Consideration of protest. The protest must be examined by a three-member board or other special instance of the ISA or any competent higher authority, and a decision taken on it. To the extent that the applicant's protest is found to be justified, the additional fee is totally or partly reimbursed. At the request of the applicant, the texts of both the protest and the decision on it are notified to the designated Offices together with the international search report (see paragraph 21.33 [XR]).

Rule 40.2(c) to (e)

21.29 Fee for review of decision on protest. Where the applicant has paid an additional fee under protest, the ISA may require the applicant also to pay a fee for the examination of the protest ("protest fee"). Details of the protest fee, if any, charged by the ISAs appear in Annex D of PCT Applicant's Guide-Volume II-International Phase. If a protest fee is chargeable by the ISA, it will only be required in a particular case after a prior review of the justification for the invitation to pay additional search fees. The review should not be made by the examiner who made the finding alone, but will usually be carried out by the supervisor of the examiner who made the finding of lack of unity or by a review body which may or may not include the examiner. [not clear if this review is performed by the same three-member board or other special instance of the ISA or any competent higher authority referred to in paragraph 21.31 or by a different review panel. JPO and USPTO do not charge a protest fee and so are less familiar with the procedure. Perhaps EPO can provide clarification.] If the invitation to pay

additional fees is maintained, the applicant must be invited to pay the protest fee within one month from the date of the notification to the applicant of the result of the review. The notification of the result of the review, if negative, will give a technical reasoning of that result. If the protest fee is not paid, the protest is considered withdrawn. The protest fee must be refunded to the applicant under Rule 40.2(e) where the three-member board, special instance or higher authority finds that the protest was entirely justified. The applicant may, on the payment of the protest fee, supplement the reasoned statement which accompanied the protest, taking into consideration the result of the review.

Rule 40.2(c), Section 502

21.30 International Bureau is sent a copy of the protest and of the decision. Where the applicant paid additional search fee(s) under protest, he must be informed promptly (Form PCT/ISA/212 may be used for that purpose) of any decision about the compliance with the requirement of unity of invention. At the same time the ISA must transmit to the International Bureau a copy of the protest and of the decision thereon as well as any request by the applicant to forward the texts of both the protest and the decision thereon to the designated Offices.

Process at International Preliminary Examination Stage

Article 17(3)(a), Rule 40

- 21.31 The procedure before the IPEA regarding lack of unity of invention is governed by Article 34(3)(a) to (c) and Rule 68 (see also Rule 70.13). This procedure is more fully explained in paragraphs 21.37 21.39 [XR]. It should be noted that in most instances lack of unity of invention will have been noted and reported upon by the ISA which will have drawn up an international search report and written opinion based on those parts of the international application relating to the invention, or unified linked group of inventions, first mentioned in the claims ("main invention"), unless the applicant has paid additional fees.
- 21.32 If the applicant has not availed himself of the opportunity to have the international search report issued on at least some of the other inventions, this must be taken as an indication that the applicant is prepared for the international application to proceed on the basis that it relates to the invention first mentioned in the claims as originally contained in the international application as filed.
- 21.33 However, whether or not the question of unity of invention has been raised by the ISA, it may be considered by the examiner. In his consideration, he should take into account all the documents cited in the international search report and any additional documents considered to be relevant.

Rule 68.2, 68.3

21.34 Where the examiner finds lack of unity of invention, a communication may, at the option of the examiner (see paragraph 21.39 [XR]), be sent to the applicant informing him why there is a lack of unity of invention and inviting him within a period stated in the invitation (the period may be between one and two months from the date of the invitation), either to restrict the claims or to pay an additional fee for each additional invention claimed. Where such a communication is sent, at least one possible restriction, which would avoid the objection of lack of unity of invention, must be indicated by the examiner. In the invitation to pay additional fees, the examiner should set out a logically presented, technical reasoning containing the basic considerations behind the finding of lack of unity in accordance with Annex B to the Administrative Instructions [XR].

Article 34(3)(c), Rule 68.4, 68.5

21.35 If the applicant does not comply with the invitation (by not paying the additional fees or by not restricting the claims either sufficiently or at all), the international preliminary examination report will have to be established on those parts of the international application which relate to what appears to be the "main invention" and the examiner will then indicate the relevant facts in such report. In cases of doubt as to which is the main invention, the invention first mentioned in the claims should be considered the main invention.

Rule 68.3(c) to (e), Section 603, Rule 68.1

21.36 However, there are cases of lack of unity of invention where, compared with the procedure of inviting the applicant to restrict the claims or to pay additional fees (Rule 68.2), no or little additional effort is involved in establishing the international preliminary examination report for the entire international application. Then, reasons of economy may make it advisable for the examiner to avail himself of the option referred to in Rule 68.1 by choosing not to invite the applicant to restrict the claims or to pay additional fees. In this situation, he will carry out his preliminary examination and establish the international preliminary examination report on the entire international application, but will indicate, when establishing the report, his opinion that the requirement of unity of invention is not fulfilled and the reasons therefore.

Article 34(3)(c)

21.37 If the applicant timely complied with the invitation to pay additional fees even under protest, or to restrict the claims, the examiner will carry out international preliminary examination on those claimed inventions for which additional fees have been paid or to which the claims have been restricted. It should be noted that "the national law of any elected State may provide that, where its national Office finds the invitation of the IPEA justified, those parts of the international application which do not relate to the main invention shall, as far as effects in that State are concerned, be considered withdrawn unless a special fee is paid by the applicant to that Office" (Article 34(3)(b)).

Protest Procedure

21.38 Where the applicant has paid an additional fee under protest, the IPEA may require the applicant also to pay a fee for the examination of the protest ("protest fee"). Details of the protest fee, if any, charged by the IPEAs appear in Annex D of PCT Applicant's Guide-Volume II-International Phase. If a protest fee is chargeable by the International Preliminary Examining Authority, it will only be required in a particular case after a prior review of the justification for the invitation to pay additional fees. The review should not be made by the examiner who made the finding alone, but will usually be carried out by the supervisor of the examiner who made the finding of lack of unity or by a review body which may or may not include the examiner. [not clear if this review is performed by the same three-member board or other special instance of the ISA or any competent higher authority referred to in 21.31 [XR] or by a different review panel. JPO and USPTO do not charge a protest fee and so are less familiar with the procedure. Perhaps EPO can provide clarification.] If the invitation to pay additional fees is maintained, the applicant must be invited to pay the protest fee within one month from the date of the notification to the applicant of the result of the review. The notification of the result of the review, if negative, will give a technical reasoning of that result. If the protest fee is not paid, the protest is considered withdrawn. The protest fee must be refunded to the applicant under Rule 68.3(e) where the three-member board, special instance or higher authority finds that the protest was entirely justified. The applicant may, on the payment of the protest fee, supplement the reasoned statement which accompanied the protest, taking into consideration the result of the review.

CHAPTER 22 RULE 91 – OBVIOUS ERRORS IN DOCUMENTS

- [22.01 Errors which are due to the fact that something other than that which was obviously intended that were written in the contents of the international application or in a later submitted paper (for example, linguistic errors, spelling errors) may usually be rectified. The error must be "obvious" in the sense that it is immediately apparent:
 - (i) that an error has occurred; and
- (ii) that anyone would immediately recognize that nothing else could have been intended other than the offered rectification.
- 22.02 "Anyone" is defined as a person with the ability to read and write the language, but who does not possess specialized skill or knowledge in any given field obtained from a university, technical school, trade school, guild, apprenticeship, etc. As so defined, neither an applicant nor an inventor would meet these requirements.
- 22.03 Examples of obvious errors that are rectifiable include linguistic errors, spelling errors and grammatical errors so long as the meaning of the disclosure does not change upon entry of the rectification. Changes to chemical or mathematical formulas would not generally be rectifiable unless they would be common knowledge to anyone.
- 22.04 If a correction is not of this character (for example, if it involves cancellation of claims, omission of passages in the description or omission of certain drawings), it would be treated by the authority as an amendment and dealt with on that basis.]

Transmittal to Another Authority of a Request for Rectification

22.05 If the receiving Office receives a request for rectification of an obvious error in any part of the international application other than the request or in other papers or items (such as a nucleotide and/or amino acid sequence listing in computer readable form), it transmits that request together with any proposed replacement sheet to the Authority competent to authorize the rectification (that is, the International Searching Authority, the International Preliminary Examining Authority or the International Bureau, as the case may be) and informs the applicant accordingly (Rule 91.1(e)(ii) to (iv)). It may, instead of transmitting the request, inform the applicant that the request should be sent to the Authority competent to rectify the error. For the language(s) in which such request for rectification must be submitted, see Rule 12.2(b).

Invitation to the Applicant to Request Authorization of Rectification

22.06 If the International Searching Authority discovers what appears to be an obvious error in the international application or any other paper submitted by the applicant, it may invite (Form PCT/ISA/216) the applicant to submit a request for rectification to the Authority competent to authorize the rectification (Rule 91.1(d) and (e)). Although Rule 91.1(d) allows the ISA to invite rectifications, it is not foreseen that such invitations will be issued since any error which can be rectified under Rule 91 will not be an impediment to establishing the search report.

Request for Rectification Submitted to the International Searching Authority

Rule 91.1, Ad Inst 511

22.07 Where rectification in respect of any document other than the request form is sought, the International Searching Authority will consider whether the error is rectifiable under Rule 91.1, and will complete form PCT/ISA/217 (see Annex H). The International Searching Authority will forward the request for rectification and the PCT/ISA/217 to the International Bureau and the applicant.

Rule 91.1(b) and (g)(i)

22.08 Authorization of rectifications is determined solely by Rule 91.1(b) while Rule 91.1(g)(i) determines if they are of effect. Whether such rectifications can be effective is not a consideration in authorizing and thus of no concern to the search examiner. No authorization will be approved once publication has occurred.

Request for Rectification Submitted to the International Preliminary Examining Authority

Rule 66.5, 91.1(b)

22.09 Subject to authorization (see paragraph VI-7.16), rectification of obvious errors in the international application can be made at the request of the applicant of his own volition. In addition, the examiner, upon study of the international application (other than the request) and any other papers submitted by the applicant, might also note obvious errors. Although Rule 91 allows the IPEA to invite applicants to submit a request for rectification, it is not foreseen that such invitations will be issued since any error which can be rectified under Rule 91 will not be an impediment to establishing the international preliminary examination report.

Rule 91.1(e), (f) and (g)(ii), Section 607

22.10 Rectification of an obvious error cannot be made before the International Preliminary Examining Authority without the express authorization of that Authority. The Authority is permitted to authorize rectification of such errors in a part of the international application other than the request or in any papers submitted to it. The examiner may only authorize rectification of obvious errors up to the time the international preliminary examination report is established. The time within which requests for rectification can be made to that Authority is limited accordingly. Any Authority which authorizes or refuses any rectification shall promptly notify the applicant of the authorization or refusal and, in the case of refusal, of the reasons therefore. The Authority which authorizes a rectification shall promptly notify the International Bureau accordingly

[CHAPTER 23 QUALITY ASSURANCE

Introduction

23.01 The International Search Authorities (ISAs) and International Patent Examination Authorities (IPEAs) are entrusted to apply and observe all the common rules of international search and examination. Although applicants can generally expect the International Searching and Examining Authorities to act in accordance with the Guidelines, due to the involvement of several States in the international search and examination process and to the multitude of personnel within the various Offices, some variability is inherent to the international search and examination process. At the same time, it is recognized that minimizing inconsistencies between or within the International Searching and Examining Authorities is crucial to the unqualified acceptance of an Authority's work product by the States. To that end, quality improvement recommendations have been developed to help improve the consistency and quality of the international search and examination process.

Quality Assurance System for International Stage Applications

- 23.02 Validation of the search and examination in accordance with established quality standards will provide the national offices, applicants, and the general public with confidence in the quality of the search and examination. Regular validation is required if that confidence is to remain high. It is recommended that validation involve an objective and transparent review mechanism for ensuring that the guidelines are being applied in a consistent and effective manner. Confidence engendered by an effective validation program is also important to avoid duplication in the national and regional phases of examination.
- 23.03 It is recommended that each ISA and IPEA establish an internal International Application quality assurance system.
- 23.04 It is recommended that each ISA and IPEA establish quality standards for its International Application quality assurance system.
- 23.05 It is recommended that any search/examination quality reviews be performed by the ISA or IPEA that performed the search/examination.
- 23.06 The following illustrate the kinds of basic requirements, which may be included in a quality assurance system:
- (i) quality reviews being done of the search and quality reviews being done of the determination of novelty, inventive step, and industrial applicability;
- (ii) quality reviews being performed independently from the sub-organization whose quality is being reviewed;
 - (iii) quality review sampling being statistically valid at the ISA/IPEA level;
 - (iv) quality review data being captured and maintained by the ISA/IPEA;
- (v) quality review data being analyzed by the ISA/IPEA to identify quality concerns and their root causes;

- (vi) based on the quality data analysis, corrective action(s) being taken and appropriate training being developed and implemented;
- (vii) to the extent that quality feedback is provided to an ISA/IPEA by member states or by the public, such feedback being incorporated into the ISA/IPEA's quality improvement.

Quality Management System

- 23.07 The basic quality assurance framework for the international phase must include quality reviews to ensure that search and examination is in accordance with the guidelines. Also, it must include a quality management system to ensure that cases are administered efficiently.
- 23.08 The following illustrates the kind of basic requirements, which may be included in such a quality management system: [Source UK proposal]
- (i) streamlined practices and procedures for handling search and examination requests and performing related functions such as data-entry and classification;
- (ii) control mechanisms for ensuring that search and examination reports are issued within the prescribed timescales;
- (iii) adequate resources and infrastructure to support the search and examination process;
- (iv) adequate numbers of competent staff to support examiners in coping with demand:
- (v) control mechanisms to ensure that backlogs are effectively managed and kept to a minimum;
- (vi) a training scheme for staff to ensure that they acquire the necessary experience and skills;
- (vii) communication channels so that enquiries are dealt with promptly and that appropriate dialogue is possible between applicants and examiners;
- (viii) monitoring procedures for measuring customer satisfaction and perception and for ensuring that their needs and expectations are met.

Quality Assurance System for National Stage Applications

- 23.09 The International (ISA/IPEA) and National Offices are interdependent and serve as suppliers for one another. Therefore, it will be extremely beneficial to the organizations to share quality data and quality processes in order to improve the Offices' overall performance.
- 23.10 When PCT applications enter the National Stage, further national quality assurance mechanisms may generate quality data. National Stage quality data may be fed back to the ISA/IPEA that performed the International stage work so that data can be compared and evaluated for continuous quality improvement.]

ANNEX A INTERNATIONAL SEARCH DOCUMENTATION

General

Article 15(4); Rules 34, 36.1(ii)

A.01 The PCT requires the International Searching Authority to endeavor to discover as much of the relevant prior art as its facilities permit and, in any case, consult the minimum documentation specified in Rule 34. The International Searching Authority must have access to at least this minimum documentation properly arranged or indexed for search purposes, [as well as access to relevant databases for non-patent literature.]

Definition of international search documentation

A.02 The international search documentation is a document collection in print or electronic form that is systematically arranged (or otherwise systematically accessible) for search purposes according to the subject matter content of the documents, which are primarily patent documents supplemented by a number of articles from periodicals and other items of non-patent literature.

PCT minimum documentation

Rule 34.1(b)(ii) and (iii), 34.1(c)

A.03 The minimum documentation is the document collection or databases, arranged for systematic access, which consists of:

- (a) the following national patent documents:
- (i) the patents issued in and after 1920 by France, the former *Reichspatentamt* of Germany, Japan, the former Soviet Union, Switzerland (in the French and German languages only), the United Kingdom and the United States of America;
- (ii) the patents issued by the Federal Republic of Germany and the Russian Federation:
- (iii) the patent applications, if any, published in and after 1920 in the countries referred to in items (i) and (ii);
 - (iv) the inventors' certificates issued by the former Soviet Union;
- (v) the utility certificates issued by and the published applications for utility certificates of France;
- (vi) the patents and/or published patent applications from other countries since 1920 in the English, French, German or Spanish language, in which no priority is claimed and which are sorted out and placed at the disposal of the International Searching Authorities by the national Office of the issuing country;
- (b) published international (PCT) applications, published regional patents and inventors' certificates and published applications therefor;
- (c) such other published items of non-patent literature as are agreed upon by the International Searching Authorities.

A.04 The items of non-patent literature under Rule 34.1(b)(iii) agreed upon by the International Searching Authorities and adopted by the PCT Committee for Technical Cooperation (PCT/CTC) are specified in listings published from time to time in Section IV of the *PCT Gazette*².

Search file contents

Rule 34.1(d)

A.05 In order to reduce the bulk of the systematically accessible search documentation and the amount of classification work, whenever an application is republished as such or as a granted patent, normally only one of those documents need be included in the search files.

A.06 Not all members of a patent family need to be physically present in systematically arranged search files, or classified or indexed in an electronic file. The question which member or members of a patent family should be included in the search files is left to the discretion of each International Searching Authority so long as access to other members of the family is provided.

² Editor's Note: The "Minimum Documentation List of Periodicals" was last published in *PCT Gazette* No. 48/1997 of 6 November 1997. The List, along with explanatory notes, also appears as Part 4 of the WIPO Handbook on Industrial Property Information and Documentation.

ANNEX B RECOMMENDED DATABASES FOR SEARCH IN VARIOUS FIELDS

[The draft text of Annex B, including the following Parts, is contained in a separate file which is available on WIPO's website at http://www.wipo.int/pct/en/meetings/mia/doc/pct_mia_7_2ab.doc.]

PART 1 SEARCH RESOURCES FOR CLAIMS RELATING TO THERMOELECTRIC AND PHOTOELECTRIC BATTERIES

PART 2 SEARCH GUIDELINES FOR CLAIMS RELATING TO BUSINESS METHODS

PART 3
SEARCH RESOURCES RELEVANT TO
DRUG, BIO-AFFECTING AND BODY COMPOSITIONS

PART 4
SEARCH RESOURCES FOR CLAIMS RELATING TO
ELECTROLYSIS AND CHEMICAL REACTORS USING
ELECTROMAGNETIC WAVE ENERGY OR RADIATION

PART 5 SEARCH RESOURCES FOR CLAIMS RELATING TO FABRIC COMPOSITES

PART 6
SEARCH RESOURCES FOR CLAIMS RELATING TO
DESTRUCTION OR CONTAMINATION OF HAZARDOUS OR TOXIC WASTE

PART 7
SEARCH RESOURCES RELEVANT TO ISOLATED OR
RECOMBINANT NUCLEIC ACIDS COMPOUNDS OR COMPOSITIONS

[End of Annex and of document]