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Committee on WIPO Standards (CWS)

Ninth Session Geneva, November 1 to 5, 2021

PROPOSAL FOR THE REVISION OF WIPO STANDARD ST.37 Document prepared by the International Bureau

INTRODUCTION

- 1. At the reconvened fourth session of the Committee on WIPO Standards (CWS), the European Patent Office (EPO) was appointed leader of the Authority File Task Force, which is responsible for managing any necessary revisions of this Standard. Revision of WIPO ST.37 by the Authority File Task Force falls under the framework of Task No.44 whose description reads: "Ensure the necessary revisions and updates of WIPO Standard ST.37."
- 2. At its fifth session held in May 2017, the CWS adopted WIPO Standard ST.37 "Recommendation for an authority file of published patent documents". Further revisions of WIPO ST.37 were approved by the CWS at its sixth, seventh and eighth sessions, held in October 2018, July 2019 and November 2020 respectively, including the addition of new Annexes III (XML Schema) and IV (XML DTD) and a series of small revisions to both the Main Body and Annexes of ST.37.
- 3. The Patent Cooperation Treaty (PCT) Minimum Documentation Task Force, also led by the EPO, has met twice, in December 2020 and May 2021, since the previous session of the CWS, to examine whether WIPO ST.37 could be used to facilitate describing the contents of patent and utility model collections belonging to the PCT Minimum Documentation. During these two meetings, the PCT Minimum Documentation Task Force agreed to the addition of three extra columns in their ST.37-conforming Authority Files to indicate the presence or absence of the following elements for each publication number therein:
 - full text in searchable text format;
 - original abstract available in searchable text format; and
 - English language abstract available in searchable text format.

4. The PCT Minimum Documentation Task Force proposed to the Authority File Task Force that they should collaborate on the revision of WIPO ST.37 so that both parties could benefit from the addition of these three additional indicators. While these new indicators would be mandatory for inclusion by the International Searching Authorities (ISAs) and the International Preliminary Examining Authorities (IPEAs), they are proposed as optional within the WIPO ST.37-compliant authority file.

PROPOSED REVISION OF WIPO STANDARD ST.37

- 5. Within the framework of Task No. 51, in light of the proposal submitted by the PCT Minimum Documentation Task Force, the Authority File Task Force submits for consideration and, where appropriate, approval by the CWS, a final proposal for the revision of WIPO Standard ST.37. Revisions are identified in the Annexes I to III of the present document, with yellow highlighting indicating an addition of new text and purple highlighting indicating a removal. Annex I to the present document is a reproduction of WIPO Standard ST.37 with the revisions highlighted, Annex II to the present document is a reproduction of Appendix to ST.37 Annex III with revisions highlighted and Annex III to the present document is a reproduction of the Appendix to ST.37 Annex IV.
- 6. The following amendments are proposed to revise the Main Body of WIPO Standard ST.37:
 - (a) addition of new paragraph 8 to indicate the recommendation to align with the PCT Minimum Documentation through the inclusion of information indicating which sections are text-searchable:
 - (b) an edit to paragraph 10 (old paragraph 9) to provide a definition for the three additional indicators as new item 10(d):
 - "(d) designation of whether the abstract, description, claims of a publication are text-searchable, through selection of one of the following codes:
 - "N" Not available
 - "U" Unknown
 - two-letter language code(s) in which the searchable text is available.
 either in the original language or as an official translation";
 - (c) an edit to the end of paragraph 12 (old paragraph 11) to include the following new sentence:
 - "The elements defined in paragraph 10(d) are considered mandatory for inclusion by the International Searching Authorities (ISAs) and the International Preliminary Examining Authorities (IPEAs) of the PCT, or those IPOs wishing their publications to be included within the PCT Minimum Documentation set.";
 - (d) addition of footnote for paragraph 12, which indicates as the definition of the PCT Minimum Documentation set:
 - "See Part 4.2 of the WIPO Handbook on Industrial Property Information and Documentation.";
 - (e) inclusion of a new paragraph 21, which describes the language code that should be used within an authority file;
 - (f) addition of new paragraphs 32 and 33 which read as follows:
 - " Availability of a publication in a text-searchable format
 - 32. The availability of the abstract, description and/or, claims of a publication in a text-searchable format, may be indicated in the authority file using the appropriate codes. In the case of the ISA and IPEA, or IPOs who wish to have their publications as part of the

PCT Minimum Documentation set, the inclusion of this information in their authority files is mandatory.

- 33. The availability in text- searchable format of each section of a publication must be identified in the authority file with a code "N" for Not available, or a "U" for Unknown (availability) or the two-letter language code(s) for each corresponding available language made available by the Office either as the original language or an official translation.":
- (g) an edit to paragraph 37 (old paragraph 32) to include the following additional sentence:
 - " (f) describe the codes used to indicate the availability of sections of the published patent specification in searchable format.";
- (h) all instances of 'Authority File' in the Main Body were corrected to 'authority file'; and
- (i) an edit to paragraph 10 (a) to reword how the example is indicated.
- 7. The following amendments are proposed to revise the Annexes of WIPO Standard ST.37:
 - (a) Annex I (Definition File): an indication that IPOs should provide information regarding the availability of the abstract, claims and description in a machine-readable format in their definition file:
 - (b) Annex II (TXT file): a recommendation of how to provide information regarding the availability of the abstract, claims and description in a machine-readable format when providing authority file data as a TXT file, for both an ISA/IPEA and an IPO that is not an ISA;
 - (c) Annex III (XML Schema) and its Appendix: additional components are defined in the XML schema to capture information regarding the availability of the abstract, claims and description in a machine-readable format; and
 - (d) Annex IV (XML DTD) and its Appendix: additional components are defined in the XML schema to capture information regarding the availability of the abstract, claims and description in a machine-readable format.
- 8. The proposed revision of WIPO Standard ST.37 is provided as Annexes to this document for the consideration by the CWS.
 - 9. The CWS is invited to:
 - (a) note the content of the present document and its Annexes; and
 - (b) consider and approve the proposed revision of WIPO Standard ST.37, as referred to in paragraphs 4 to 8 above and in the Annexes to this document.

[Annexes (the proposed revision of WIPO Standard ST.37) follow]

STANDARD ST.37

RECOMMENDATION FOR ANAUTHORITY FILE OF PUBLISHED PATENT DOCUMENTS

Version 2.<mark>2</mark>4

Proposal presented by the Authority File Task Force for consideration and approval at the CWS/9. Revision approved by the Committee on WIPO Standards (CWS)
at its eighth session on December 4, 2020

STANDARD ST.37

RECOMMENDATION FOR ANALITHORITY FILE OF PUBLISHED PATENT DOCUMENTS

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INTRODUCTION

- 1. This Standard defines data elements to constitute an authority file of patent documents, as well as its structure and format.
- 2. The primary purpose of the authority file generated by an industrial property office (IPO) is to allow other IPOs and other interested parties to assess the completeness of the available patent documentation.
- 3. In order to allow consistency checks, the authority file should contain the list of all publication numbers assigned by the IP office. This may include publication numbers for which no published document is available this can be the case for applications withdrawn shortly before the publication or for destroyed documents as well as publication numbers for which the publication contains only bibliographic data.

DEFINITIONS

- 4. For the purposes of this Standard:
 - (a) the term "patent documents" includes patents for inventions, plant patents, design patents, inventors' certificates, utility certificates, utility models, patents of addition, inventors' certificates of addition, utility certificates of addition, and published applications therefor. "Documents" means patent documents, unless otherwise stated;
 - (b) the terms "publication" and "published" are used in the sense of making available:
 - (i) a patent document to the public for inspection or supplying a copy on request; and
 - (ii) multiple copies of a patent document produced on, or by, any medium (e.g., paper, film, magnetic tape or disc, optical disc, online database, computer network, etc.); and
 - (c) according to certain national industrial property laws or regulations or regional or international industrial property conventions or treaties, the same patent application may be published at various procedural stages. For the purpose of this standard, a "publication level" is defined as the level corresponding to a procedural stage at which normally a document is published under a given national industrial property law or under a regional or international industrial property convention or treaty.

REFERENCES

5. References to the following Standards are of relevance to this Recommendation:

WIPO Standard ST.1	Recommendation Concerning the Minimum Data Elements Required to Uniquely Identify a Patent Document
WIPO Standard ST.2	Standard Manner for Designating Calendar Dates by Using the Gregorian Calendar
WIPO Standard ST.3	Recommended Standard on Two-Letter Codes for the Representation of States, Other Entities and Intergovernmental Organizations
WIPO Standard ST.6	Recommendation for the Numbering of Published Patent Documents
WIPO Standard ST.10/C	Presentation of Bibliographic Data Components
WIPO Standard ST.16	Recommended Standard Code for the Identification of Different Kinds of Patent Documents
WIPO Standard ST.36	Recommendation for the Processing of Patent Information Using XML (eXtensible Markup Language)
WIPO Standard ST.96	Recommendation for the Processing of Intellectual Property Information Using XML (eXtensible Markup Language)

RECOMMENDATIONS

- 6. An authority file is generated by the IPO and contains a list of all patent documents published by that IPO from the first publication onwards. It should also include document numbers which were allocated but for which no published document is available (see paragraphs 2424 to 2727 below).
- 7. For practical reasons, an authority file may not include documents published during a certain period (not longer than two months) before the date when the authority file was generated by the IPO. This period depends on the document processing practices of the Office and, should an IPO submit a definition file as laid down in paragraphs 3838 and 3939 below, then it is recommended to indicate there the date of the publication of the latest document listed in the authority file.
- 8. <u>For alignment with the requirements of the Patent Cooperation Treaty (PCT) Minimum Documentation, information on which sections of the publication are text-searchable must be provided in an authority file (see paragraphs 13, 33 and 34 below).</u>

DATA ELEMENTS

- 9. For each publication, the authority file should contain the following minimum data elements to uniquely identify all types of patent documents as originally published by the IPO:
 - (a) w o-letter alphabetic code of the IPO publishing the document (publication authority);
 - (b) publication number;
 - (c) kind code of the patent document (kind-of-document code); and
 - (d) publication date.
- 10. In addition to the elements listed above, the authority file may contain the following data elements:
 - (a) publication exception code (to indicate, for example for example to identify w ithdrawn or missing documents);
 - (b) priority application identification of the corresponding publication, w hich should contain the following subelements:
 - i. two-letter alphabetic code of the IPO publishing the priority application;
 - ii. priority application number;
 - iii. kind-of-document code of the priority application; and
 - iv. filing date of the priority application.
 - (c) application identification of the corresponding publication, which should contain the following sub-elements:
 - i. tw o-letter alphabetic code of the IPO publishing the application;
 - ii. application number; and
 - iii. filing date.
 - (d) indication of w hether the abstract, description, claims of a publication are text-searchable, through selection of one of the following codes:
 - "N" Not available
 - <u>"U" Unknow n</u>
 - two-letter language code(s) in w hich the searchable text is available, either in the original language or as an official translation
- 11. Publication exception code (as per paragraph 10(a)9(a) above) should be alw ays included for the documents, for w hich the complete publication in machine-readable form is not available (see paragraphs 2424 to 2727 below). Otherwise, the data element "publication exception code" should not be populated.
- 12. The provision of the optional data elements indicated in paragraphs 10(b)9(b) and 10(c)9(c) above remains within the discretion of the IPO generating the authority file. The elements defined in paragraph 10(d) are considered mandatory for inclusion by the International Searching Authorities (ISAs) and the International Preliminary Examining Authorities (IPEA) of the PCT, or those IPOs wishing their publications to be included within the PCT Minimum Documentation set 1.
- 13. The list of documents in the authority file should be sorted firstly by publication number, secondly by type of document (kind code), thirdly by publication date and (optionally) fourthly by publication exception code and fifthly by priority number.

¹ See Part 4.1 of the WIPO Handbook on Industrial Property Information and Documentation

14. For the cases where a publication number has been allocated but no document has been published, data elements "kind code" and "publication date" may not be populated.

Field formatting

- 15. All elements and sub-elements listed in paragraphs 92 and 102 above must be recorded in separate fields.
- 16. Examples of text format and XML file structures are provided in Annexes II to IV.

Publication Aauthority

17. The two-letter alphabetic code for the publication authority – country or region of the IPO generating the authority file – should follow recommendations of WIPO Standard ST.3.

Publication Number

18. Any non-alphanumeric characters – for example, those used as separators, such as dots, commas, dashes, slashes, spaces – should preferably be removed from the publication number, while generally the publication number should be following the recommendations of WIPO Standard ST.6.

Kind Code

- 19. Different kinds of patent documents should be identified following the recommendations of WIPO Standard ST.16. If the IPO uses kind-of-document codes which do not follow the recommendations of WIPO Standard ST.16, the definitions of such codes should be provided in the definition file (see paragraphs 3838 and 3939 below).
- 20. If no kind of patent document code w as allocated or it is unknown, the corresponding data element "kind code" may not be populated.

Language code

21. The two-letter code which identifies for the language that the text is provided in should follow the recommendations of WIPO Standard ST.96. Extended ISO Language Code Type, which is based on International Standard ISO 639-1 "Codes for the representation of names of languages — Part 1: Alpha2-code";

Publication date

- 22. The publication date should be presented in accordance with paragraph 7(a) of WIPO Standard ST.2. For example, '20170602' for 'June 2, 2017'.
- 23. If the publication date is unknown to the IPO generating the authority file, the corresponding data element "publication date" may not be populated.

Publication exception code

- 24. The publication exception code should be used for publication numbers for which the complete publication is not available in machine-readable form.
- 25. The following single-alphabetic letter codes should be used to indicate the reason why the complete published document, for which the corresponding number is assigned, is not available:

С	Defective documents.
D	Documents deleted after the publication.
E	Publication number allocated by the IPO representing a PCT national/regional phase entry (for example Euro-PCT). No corresponding document published. A Euro-PCT application is an international (PCT) patent application that entered the European regional phase.
M	Missing published documents.
N	Not used publication number, for example, when publication numbers have been issued, but for some reason have not been allocated to any publication. See also paragraph <u>2626</u> below.
Р	Documents available on paper only.
R	Reissued publications.
U	Unknow n publication numbers, for example, when during compilation of the authority file certain publication numbers have been found in the database, but the corresponding documents are missing without known cause. Typically this code can indicate a database error that requires further analysis.
W	Applications (or patents), which were withdrawn before the publication; this can include lapsed or ceased patents and might depend on national patent law regulations.
Χ	Code available for individual or provisional use by an IPO.

- 26. It is recommended to list only the numbers assigned by the IPO, but in case of small gaps in the numbering sequence (less than 1000 consecutive publication numbers), the IPO may use the publication exception code "N" to identify the numbers, which were not used.
- 27. The use of codes "N", "W" and "X" should be described in the definition file (see paragraphs 383 and 393 below).

Priority application identification

- 28. The recommendations for data elements, as indicated in paragraphs 1746 to 2323 above, should be applied mutatis mutandis to all sub-elements of "priority application identification" element.
- 29. Priority application numbers should be indicated in accordance with paragraphs 12 and 13 of WIPO Standard ST.10/C.

Application Identification

- 30. The recommendations for data elements, as indicated in paragraphs 17 to 2323 above, should be applied mutatis mutandis to all sub-elements of "application identification" element.
- 31. Application numbers should be provided in the same format as it appeared on the original patent publication issued by the IPO. If the IPO uses application number formats in the a_uthority IF iile that are different from those used on the original publication, an explanation of the format should be provided in the definition file.

Availability of a publication in a text-searchable format

- 32. The availability of the abstract, description and/or, claims of a publication in a text-searchable format may be indicated in the authority file using the appropriate codes. In the case of the ISA and IPEA, or IPOs who wish to have their publications as part of the PCT Minimum Documentation set, the inclusion of this information in their authority files is mandatory.
- 33. The availability in text-searchable format of each section of a publication must be identified in the authority file with a code "N" for Not available, or a "U" for Unknown (availability) or the two-letter language code(s) for each corresponding language made available by the Office either as the original language or an official translation.

RECOMMENDED STRUCTURE AND FORMAT OF THE AUTHORITY FILE

- 34. It is recommended to provide a single file for all publication numbers listed in the authority file.
- 35. If generating a single file proves impractical due to the resulting file size, the IPO may generate several files, dividing the list of publication numbers based on one of the following criteria:
 - (a) Publication date (file per year or several years);
 - (b) Publication level (applications, granted IP rights); and
 - (c) Types of patent documents (file per kind-of-document code).
- 36. To improve file handling, IPO may generate an update file w hich includes data for the currentyear and the last calendar year and a static file including all older data.

Definition File

- 37. If some of the records included in the authority file contain information, which is not evident or easily understandable, it is recommended to provide a definition file in addition to the authority file. For example, in the definition file the IPO may:
 - (a) describe specific criteria for building the authority file(s);
 - (b) describe the use of publication exception codes, in particular codes "N", "W" or "X";
 - (c) describe the use of kind-of-documents codes (see paragraph 18 above) or provide a reference to Part 7.3 of the WIPO Handbook if up-to-date information on kind-of-documents codes is already described in Part 7.3 of the WIPO Handbook;
 - (d) indicate the date of the most recent document listed (see paragraph 77 above); and
 - (e) describe the numbering systems used or provide a reference to Parts 7.2.6 and 7.2.7 of the WIPO Handbook if up-to-date information on the numbering systems used is already described in Parts 7.2.6 and 7.2.7 of the WIPO Handbook; and
 - (f) describe the codes used to indicate the availability of sections of the publication in text-searchable format.
- 38. To assist other IPOs and interested parties in a first assessment of the completeness of the available patent documentation, the definition file may also include an overview of the data coverage, for example indicate the number of

publications per year by kind code or by publication level. Annex I contains an example of a definition file to assist IPOs in drafting their definition files.

File Format

- The file must be encoded using Unicode UTF-8.
- 40. With the aim to harmonize, as much as possible, the current practices to exchange and parsing of authority files, two file formats are recommended:
 - (a) XML (eXtensible Markup Language) format to identify the content of data fields of an authority file (see paragraphs 99 and 109 above) using XML tags w ithin an instance, either in an XML schema (as defined in Annex III) or a Document Type Definition (DTD) (see Annex IV) format; and
 - (b) Text format (file extension TXT) to identify the content of minimum data fields and the optional publication exception code element using a single text coded list, where the elements are separated by commas (preferred), tabs or semicolons and a "Carriage Return and Line Feed" (CRLF character) to represent the end of each record (as defined in Annex II). Text files are smaller in size than XML files.
- 41. XML is the preferred format for the purpose of this Standard, as it provides clear data element contents and allow s automatic validation of its structure and type. IPOs may use text format for simple authority files, which contain minimum data elements (as per paragraph 2 above) and, if applicable, publication exception code only; the content of each data field should be obvious.

File name

- 42. The name of the authority file generated by an IPO should be structured as follows:
 - (a) for a single file (see paragraph 3539 above) CC_AF_YYYYMMDD, where "CC" is the ST.3 code of the IPO, "AF" means "authority file" and "YYYYMMDD" date of the generation of the authority file.

For example,

EP_AF_20160327 - single authority file generated by the EPO on March 27, 2016; and

(b) for each one of multiple files (see paragraph 3631 above) CC_AF_{criterion information}_KofN_YYYYMMDD, where "CC" is the ST.3 code of the IPO, "AF" means "authority file", {criterion information} is a place-holder and K is the index number of this file, N is the total number of files generated and "YYYYMMDD" – date of the generation of the authority file.

For example,

EP_AF_A-documents_1of2_20160327 – first of two parts of the authority file generated by the EPO on March 27, 2016, this part covers applications only;

_EP_AF_B-documents_2of 2_20160327 – second of two parts of the authority file generated by the EPO on March 27, 2016, this part covers granted patents only.

(c) for the instance where multiple files are provided, and each covers a different time period, please refer to the table below for an example of recommended file naming:

CC_AF_gazetteNNXXXX_YYYYMMDD.ff	contains the authority file for publication NNXXXX w here NN is the week number, XXXX is the year and ff is the file format (XML or TXT)
CC_AF_yearXXXX_YYYYMMDD.ff	contains the authority file for the year XXXX
CC_AF_YYYYMMDD.ff	contains the authority file w ith file format ff
CC_AF.zip	A zipped file w hich contains the three files above

IMPLEMENTATION OF THE AUTHORITY FILE

- 43. In order to ensure efficiency of the data exchange, authority files in XML format must be structured according to the XML schema (XSD) or the data type definition (DTD) file as specified in Annex III and Annex IV, respectively.
- 44. The update frequency for the authority file should be at least annual. The date the annual update should be provided by IPOs is March 1 each year.
- 45. It is recommended that IPOs generate and make available authority files covering all assigned document numbers, no later than two months after the last covered publication date. For example, an authority file with data coverage until the end of 2017 should be made available before March 1, 2018.
- 46. If an error is discovered in an authority file, a replacement file should be provided by the IPO as soon as possible.

ANNEX I

EXAMPLE OF A DEFINITION FILE



Proposal presented by the Authority File Task Force for consideration and approval at the CWS/9.

Committee on WIPO Standards (CWS)

at its pighth session on December 4-2020

DEFINITION FILE FOR XX AUTHORITY FILE

This definition file relates to the following authority file: XX_AF_20170322

Date of production

2017-03-22

Data coverage

Public XX documents from 1974-01-01 to 2016-12-31.

The XX authority file lists all XX patent and XX utility model publications

Coverage according to document type and kind-of-document code (see Part 7.3 of the WIPO Handbook for details on kind codes):

Туре	Kind Code	Total
Patent Application	A1	125.568
Patent Application	A2	96.430
Patent Granted	B1	144.879
Utility Model Application	U	24.332
Utility Model Examined	Y1	18.445

A detailed (annual) data-coverage can be found online at http://www.XX-office.org/coverage.

Used options

- Application information is provided where available
- Priority data not included
- Availability of abstract, description and claims of the publication in text-searchable format is provided
- Publication Exception Codes used are the following:

Publication Exception Code	Definition
D	Documents deleted after the publication.
E	PCT applications w hich have not been republished
M	Missing published documents
R	Reissued publications
U	Unknow n publication numbers
X	Bibliographic details of filed patent applications, as announced in the Gazette
	published by the office
W	Applications (or patents), which were withdrawn before the publication

Remark:

R – Reissued publication

Before 2001-01-01 correction requests from applicants and proprietors at the XX office were registered and executed, but not recorded in necessary electronic formats. Therefore these so-called reissued publications are only available with bibliographic data but not as published documents.

Numbering Formats:

For details on the numbering systems used by XX office see the corresponding entries in Parts $\underline{7.2.6}$ and $\underline{7.2.7}$ of the WIPO Handbook.

ANNEX II

TEXT FILE (TXT)

Version 2.<mark>2</mark>4

Proposal presented by the Authority File Task Force for consideration and approval at the CWS/9. Committee on WIPO Standards (CWS) at its eighth session on December 4, 2020

- 1. The authority file text structure lists the minimum data elements, the optional publication exception code element, and the optional text-searchable abstract, description and claims indication code elements (see paragraphs 9 and 10) for each publication record in one line, separated by a comma (preferred), tab or semicolon and a "Carriage Return and Line Feed" (CRLF character) to represent the end of each record.
- 2. Data structure: <publication authority>,<publication number>,<kind-of-document code>,<publication date>,<publication exception code>,<searchable abstract code (language codes or Nor U)>, <searchable description code (language codes or N or U)>, <searchable claims code (language codes or N or U)>,
- 3. The codes "N" and "U" in the elements < searchable description code>, < searchable claims code> < searchable abstract code> mean "Not available" and "Unknown", respectively. The codes "language code", "N" and "U" are represented as a suffix of the corresponding element of the publication using one of the following options, following by a dash:
 - ABST Abstract
 - ii. DESC Description
 - . CLMS Claims

If there are multiple languages available for these elements, the language indications must be separated by spaces instead of the separator referred to in paragraph 1 above. For example: ABST-en ABST-de ABST-fr, DESC-N, CLMS-N

4. This first example illustrates an authority file, produced by an ISA or those IPOs w ishing their publications to be included w ithin the PCT Minimum Documentation set, represented using a TXT structure where the data elements are separated by a comma:

...
EP,2363052,A1,20110907,W. ABST-U. DESC-U. CLMS-U <CRLF>
EP,2363053,A2,20110907,M. ABST-en, DESC-N, DESC-N, CRLF>
EP,2540632,A1,20130102,P. ABST-N, DESC-N, CLMS-N<CRLF>
EP,2540632,B1,20151202, ABST-en ABST-fr ABST-de, DESC-en, CLMS-en<CRLF>

5. This second example illustrates an authority file, for those IPOs w hich do not w ish their publications to be included in the PCT Minimum Documentation set, again represented using a TXT structure with comma separators:

...

UA,1,C2,1993-04-30 < CRLF>
UA,1,U,1995-06-30 < CRLF>
UA,2,C2,1993-04-30 < CRLF>
UA,2,U,1995-06-30 < CRLF>
UA,3,C2,1993-04-30 < CRLF>

[Annex III of ST.37 follows]

ANNEX III

XML SCHEMA DEFINITION (XSD) FOR AUTHORITY FILE



Proposal presented by the Authority File Task Force for consideration and approval at the CWS/9.

Committee on WIPO Standards (CWS)

at its eighth session on December 4, 2020

Editorial Note by the International Bureau:

Annex III of WIPO Standard ST.37 is the set of XML schema components to represent the minimum and extended data elements of an Authority File of patent documents issued by a Patent Office. Annex III is based on WIPO Standard ST.96, including the naming convention used to identify the names of the specific data components for Authority File. Annex III includes an Appendix which is a sample XML instance of an Authority File structured according to the XML schema, according to WIPO ST.96 V4_0.

```
<? xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"</pre>
xmlns:afp="http://www.wipo.int/standards/XMLSchema/AFPatent"
xmlns:com="http://www.wipo.int/standards/XMLSchema/ST96/Common"
xmlns:pat="http://www.wipo.int/standards/XMLSchema/ST96/Patent"
targetNamespace="http://www.wipo.int/standards/XMLSchema/AFPatent"
elementFormDefault="qualified" attributeFormDefault="qualified" version="<mark>V2 2</mark>1">
     <xsd:import namespace="http://www.wipo.int/standards/XMLSchema/ST96/Patent"</pre>
schemaLocation="http://www.wipo.int/standards/XMLSchema/AFPatent/V2 1/ST96 Patent V4 0.xsd"
     <xsd:import namespace="http://www.wipo.int/standards/XMLSchema/ST96/Common"</pre>
schemaLocation="http://www.wipo.int/standards/XMLSchema/AFPatent/V2_1/ST96_Common_V4_0.xsd"
     <xsd:annotation>
           <xsd:appinfo>
                 <com:SchemaLastModifiedDate>2021-07-01
                <com:SchemaContactPoint>xml.standards@wipo.int</com:SchemaContactPoint>
     <com:SchemaReleaseNoteURL>http://www.wipo.int/standards/XMLSchema/AFPatent/V2 21/Relea
seNotes.pdf</com:SchemaReleaseNoteURL>
           </xsd:appinfo>
     </xsd:annotation>
     <xsd:element name="PatentAuthorityFile" type="afp:PatentAuthorityFileType">
                <xsd:documentation>Authority file for patent documents provided by patent
offices according to WIPO Standard ST.37</xsd:documentation>
           </xsd:annotation>
     </xsd:element>
     <xsd:element name="AuthorityFileDataCoverage"</pre>
type="afp:AuthorityFileDataCoverageType">
           <xsd:annotation>
                <xsd:documentation>List of patent documents published by industrial
property offices grouped according to their ST.16 kind-of-document codes for a given date
range</xsd:documentation>
           </xsd:annotation>
     </xsd:element>
     <xsd:complexType name="AuthorityFileDataCoverageType">
           <xsd:sequence>
                <xsd:element ref="com:PublicationDateRange"/>
                <xsd:element ref="afp:PublicationNumberRange" minOccurs="0"/>
                <xsd:element ref="afp:KindCodeCoverageBag" minOccurs="0"/>
                <xsd:element ref="afp:ExceptionCodeCoverageBag" minOccurs="0"/>
                <xsd:element ref="com:DataCoverageURI" minOccurs="0"/>
           </xsd:sequence>
     </xsd:complexType>
     <xsd:element name="AuthorityFileDefinition" type="afp:AuthorityFileDefinitionType">
           <xsd:annotation>
```

```
<xsd:documentation>Provide definition file information relating to this
associated authority file, including file coverage</xsd:documentation>
           </xsd:annotation>
     </xsd:element>
     <xsd:complexType name="AuthorityFileDefinitionType">
           <xsd:choice maxOccurs="unbounded">
                 <xsd:element ref="afp:ExceptionCodeDefinitionBag"/>
                 <xsd:element ref="pat:PatentDocumentKindCodeDefinitionBag"/>
                 <xsd:element ref="com:MostRecentDocument"/>
                 <xsd:element ref="afp:AuthorityFileDataCoverage"/>
                 <xsd:element ref="com:CommentText"/>
                 <xsd:element ref="com:DocumentLocationURI"/>
           </xsd·choice>
           <xsd:attribute ref="com:id"/>
           <xsd:attribute ref="afp:groupedAFIndicator" use="required"/>
           <xsd:attribute ref="afp:groupAFCategory"/>
           <xsd:attribute ref="com:updateAFCategory" use="required"/>
     </xsd:complexType>
     <xsd:element name="AuthorityFileEntry" type="afp:AuthorityFileEntryType">
           <xsd:annotation>
                <xsd:documentation>An authority file entry consists of data required to
uniquely identify a patent publication according to WIPO ST.37</xsd:documentation>
           </xsd:annotation>
     </xsd:element>
     <xsd:element name="SearchableDescriptionCode" type="afp:TextSearchableCodeType">
           if a text-searchable description is available, or otherwise the code values N (not
available) or U (unknown) </xsd:documentation> </xsd:annotation>
     </xsd:element>
    <xsd:complexType name="TextSearchableCodeType">
                <xsd:element ref="afp:NotSearchableCode"/>
                <xsd:element ref="afp:SearchableLanguageCode" minOccurs="1"</pre>
maxOccurs="unbounded"/>
           </xsd:choice
           <xsd:attribute ref="com:id"/>
     </xsd:complexType>
     <xsd:element name="NotSearchableCode" type="afp:NotSearchableCodeType">
       <xsd:annotation>
                <xsd:documentation>Where the text is not available, the indicator is the
code N if the information is not available or the code U if it is unknown whether this
information is available</xsd:documentation>
          </xsd:annotation>
     </xsd:element>
      <xsd:element name="SearchableLanguageCode" type="com:ISOLanguageCodeType">
           <xsd:annotation>
                <xsd:documentation> A two-letter language code indicates, for searchable
text, the language made available by the Office either as the original language or an official language</ri>
           </xsd:annotation>
     </xsd:element>
     <xsd:element name="SearchableClaimsCode" type="afp:TextSearchableCodeType">
     <xsd:annotation>
                <xsd:documentation>A code which indicates the language of the claims if a
text-searchable claims is available, or otherwise the code values N (not available) or U
(unknown) </xsd:documentation>
           </xsd:annotation>
     </xsd:element>
     <xsd:element name="SearchableAbstractCode" type="afp:TextSearchableCodeType">
    <xsd:annotation>
                <xsd:documentation>A code which indicates the language of the abstract if
text-searchable abstract is available, or otherwise the code values N (not available) or U (unknown) as defined in WIPO ST.37 </xsd:documentation>
</xsd:annotation>
     </xsd:element>
     <xsd:enumeration value="N">
          <xsd:annotation>
                            <xsd:documentation>Not available</xsd:documentation>
                      </xsd:annotation>
```

```
</xsd:enumeration>
                 <xsd:documentation>Unknown if available</xsd:documentation>
                      </xsd:annotation>
                </xsd:enumeration>
           </xsd:restriction>
     </xsd:simpleType>
     <xsd:complexType name="AuthorityFileEntryType">
           <xsd:sequence>
                 <xsd:element ref="pat:PatentPublicationIdentification"/>
                <xsd:element ref="afp:ExceptionCode" minOccurs="0"/>
                <xsd:element ref="pat:ApplicationIdentification" minOccurs="0"/>
                <xsd:element ref="pat:PriorityApplicationIdentificationBag" minOccurs="0"/>
                <xsd:element ref="afp:SearchableAbstractCode" minOccurs="0" maxOccurs="1"/>
                 <xsd:element ref="afp:SearchableDescriptionCode" minOccurs="0"</pre>
maxOccurs="1"/>
                 <xsd:element ref="afp:SearchableClaimsCode" minOccurs="0" maxOccurs="1"/>
           </xsd:sequence>
           <xsd:attribute ref="com:id"/>
     </xsd:complexType>
     <xsd:complexType name="PatentAuthorityFileType">
           <xsd:sequence>
                <xsd:element ref="afp:AuthorityFileDefinition" minOccurs="0"/>
                 <xsd:element ref="afp:AuthorityFileEntry" maxOccurs="unbounded"/>
           </xsd:sequence>
           <xsd:attribute ref="com:id"/>
           <xsd:attribute ref="com:officeCode" use="required"/>
           <xsd:attribute ref="com:creationDate"/>
           <xsd:attribute ref="afp:st37Version" use="required"/>
           <xsd:attribute ref="com:ipoVersion"/>
     </xsd:complexType>
     <xsd:attribute name="groupedAFIndicator" type="xsd:boolean">
           <xsd:annotation>
                <xsd:documentation>Indicates that the authority file has been grouped, or
not, according to one of the defined categories</xsd:documentation>
           </xsd:annotation>
     </xsd:attribute>
     <xsd:element name="ExceptionCode" type="afp:ExceptionCodeType">
           <xsd:annotation>
                 <xsd:documentation>Exception code as indicated in WIPO
ST.37</xsd:documentation>
           </xsd:annotation>
     </xsd:element>
     <xsd:element name="ExceptionCodeCoverage" type="afp:ExceptionCodeCoverageType">
           <xsd:annotation>
                 <xsd:documentation>Data coverage summary by exception code including total
quantity of documents</xsd:documentation>
           </xsd:annotation>
     </xsd:element>
     <xsd:complexType name="ExceptionCodeCoverageType">
           <xsd:sequence>
                 <xsd:element ref="afp:ExceptionCode"/>
                 <xsd:element ref="com:DocumentTotalQuantity"/>
           </xsd:sequence>
     </xsd:complexType>
     <xsd:element name="ExceptionCodeCoverageBag" type="afp:ExceptionCodeCoverageBagType">
           <xsd:annotation>
                <xsd:documentation>Collection of data coverage summary by exception
code</xsd:documentation>
           </xsd:annotation>
     </xsd:element>
     <xsd:complexType name="ExceptionCodeCoverageBagType">
           <xsd:sequence maxOccurs="unbounded">
                 <xsd:element ref="afp:ExceptionCodeCoverage"/>
           </xsd:sequence>
     </xsd:complexType>
     <xsd:element name="ExceptionCodeDefinition" type="afp:ExceptionCodeDefinitionType">
           <xsd:annotation>
```

```
<xsd:documentation>A set of Exception codes, particularly the codes N, W
and X, and their descriptions as defined by the IP Office, which are different from
definitions in WIPO ST.37</xsd:documentation>
           </xsd:annotation>
     </xsd:element>
     <xsd:complexType name="ExceptionCodeDefinitionType">
           <xsd:sequence>
                 <xsd:element ref="afp:ExceptionCode"/>
                 <xsd:element ref="afp:ExceptionCodeDescriptionText"/>
           </xsd:sequence>
     </xsd:complexType>
     <xsd:element name="ExceptionCodeDescriptionText" type="xsd:string">
           <xsd:annotation>
                 <xsd:documentation>A different or specific description of an exception
code, which an IP Office uses in their authority file</xsd:documentation>
           </xsd:annotation>
     </xsd:element>
     <xsd:element name="ExceptionCodeDefinitionBag"</pre>
type="afp:ExceptionCodeDefinitionBagType">
           <xsd:annotation>
                 <xsd:documentation>List of exception codes that have a different or
specific definition in use by the IP Office rather than the definitions of exception codes
defined in WIPO ST.37</xsd:documentation>
           </xsd:annotation>
     </xsd:element>
     <xsd:complexType name="ExceptionCodeDefinitionBagType">
           <xsd:sequence maxOccurs="unbounded">
                 <xsd:element ref="afp:ExceptionCodeDefinition"/>
           </xsd:sequence>
     </xsd:complexType>
     <xsd:simpleType name="ExceptionCodeType">
           <xsd:restriction base="xsd:token">
                 <xsd:enumeration value="C">
                      <xsd.annotation>
                            <xsd:documentation>Defective publication
documents</xsd:documentation>
                       </xsd:annotation>
                 </xsd:enumeration>
                 <xsd:enumeration value="D">
                      <xsd:annotation>
                            <xsd:documentation>The document was deleted after the
publication</xsd:documentation>
                      </xsd:annotation>
                 </xsd:enumeration>
                 <xsd:enumeration value="E">
                       <xsd:annotation>
                            <xsd:documentation>Publication number allocated by the IPO
representing a PCT national/regional phase entry (for example Euro-PCT). No corresponding
document published. A Euro-PCT application is an international (PCT) patent application
that entered the European regional phase</xsd:documentation>
                       </xsd:annotation>
                 </xsd:enumeration>
                 <xsd:enumeration value="M">
                      <xsd:annotation>
                            <xsd:documentation>Published document is
missing</xsd:documentation>
                       </xsd:annotation>
                 </xsd:enumeration>
                 <xsd:enumeration value="N">
                      <xsd:annotation>
                            <xsd:documentation>This code is for Office internal-use and the
code description for 'N' must be provided using ExceptionCodeDefinition, for instance in
the IP Office's Authority Definition File</xsd:documentation>
                       </xsd:annotation>
                 </xsd:enumeration>
                 <xsd:enumeration value="P">
                       <xsd:annotation>
                            <xsd:documentation>Document available only on
paper</xsd:documentation>
                      </xsd:annotation>
                 </xsd:enumeration>
                 <xsd:enumeration value="R">
                      <xsd:annotation>
```

```
<xsd:documentation>Reissued publication</xsd:documentation>
                       </xsd:annotation>

</xsd:enumeration>
                 <xsd:enumeration value="U">
                       <xsd:annotation>
                            <xsd:documentation>Unknown publication number, for example,
when during compilation of the authority file one or a list of publication number(s) has
been found in the database, but the corresponding document(s) is(are) missing without known
cause. Typically this code can indicate could be a database error that requires further
analysis</xsd:documentation>
                       </xsd:annotation>
                 <xsd:enumeration value="W">
                       <xsd:annotation>
                            <xsd:documentation>This code is for Office internal-use and the
\verb|code| \ description for 'W' \ \verb|must| \ be \ provided \ using \ Exception Code Definition, \ for \ instance \ in
the IP Office's Authority Definition File </xsd:documentation>
                      </xsd:annotation>
                 </xsd:enumeration>
                 <xsd:enumeration value="X">
                       <xsd:annotation>
                            <xsd:documentation>The use of code 'X' must be described in the
IP Office's Authority Definition File/xsd:documentation>
                       </xsd:annotation>
                 </xsd:enumeration>
           </xsd:restriction>
      </xsd:simpleType>
     <xsd:attribute name="groupAFCategory" type="afp:GroupCategoryType">
           <xsd:annotation>
                 <xsd:documentation>Identifies how the authority files has been grouped
i.e., by date, publication-level or document-kind code</xsd:documentation>
           </xsd:annotation>
     </xsd:attribute>
      <xsd:simpleType name="GroupCategoryType">
           <xsd:restriction base="xsd:token">
                 <xsd:enumeration value="date">
                       <xsd:annotation>
                            <xsd:documentation>Date/xsd:documentation>
                       </xsd:annotation>
                 </xsd:enumeration>
                 <xsd:enumeration value="publication-level">
                       <xsd:annotation>
                            <xsd:documentation>Publication level</xsd:documentation>
                       </xsd:annotation>
                 </xsd:enumeration>
                 <xsd:enumeration value="document-kind">
                       <xsd:annotation>
                            <xsd:documentation>Document kind</xsd:documentation>
                       </xsd:annotation>
                 </xsd:enumeration>
           </xsd:restriction>
      </xsd:simpleType>
     <xsd:element name="KindCodeCoverage" type="afp:KindCodeCoverageType">
           <xsd:annotation>
                 <xsd:documentation>Data coverage summary by kind code including document
total quantity</xsd:documentation>
           </xsd:annotation>
     </xsd:element>
     <xsd:complexType name="KindCodeCoverageType">
           <xsd:sequence>
                 <xsd:element ref="com:PatentDocumentKindCode"/>
                 <xsd:element ref="com:DocumentTotalQuantity"/>
           </xsd:sequence>
     </xsd:complexType>
      <xsd:element name="KindCodeCoverageBag" type="afp:KindCodeCoverageBagType">
           <xsd:annotation>
                 <xsd:documentation>Collection of data coverage summary by kind
code</xsd:documentation>
           </xsd:annotation>
     </xsd:element>
     <xsd:complexType name="KindCodeCoverageBagType">
           <xsd:sequence maxOccurs="unbounded">
```

```
<xsd:element ref="afp:KindCodeCoverage"/>
           </xsd:sequence>
     </xsd:complexType>
     <xsd:element name="PublicationNumberRange" type="afp:PublicationNumberRangeType">
           <xsd:annotation>
                <xsd:documentation>A range of patent publication numbers which are included
within this authority file</xsd:documentation>
           </xsd:annotation>
     </xsd:element>
     <xsd:complexType name="PublicationNumberRangeType">
           <xsd:sequence>
                 <xsd:element ref="pat:BeginRangeNumber"/>
                 <xsd:element ref="pat:EndRangeNumber"/>
     </xsd:complexType>
     <xsd:attribute name="st37Version" type="xsd:token" fixed="V2 24">
           <xsd:annotation>
                <xsd:documentation>A specific release version of ST.37 XML
Schema </ xsd:documentation>
           </xsd:annotation>
     </xsd:attribute>
</xsd:schema>
```

[Appendix of ST.37 Annex III follows]

APPENDIX

Editorial Note by the International Bureau:

The Appendix to Annex III of ST.37 can be found in Annex II of the present document.

[Annex IV of ST.37 follows]

ANNEX IV

DOCUMENT TYPE DEFINITION (DTD) FOR AUTHORITY FILE



Proposal presented by the Authority File Task Force for consideration and approval at the CWS/9 Revision approved by the Committee on WIPO Standards (CWS)

at its seventh session on July 5, 2019

Editorial Note by the International Bureau:

Annex IV of WIPO Standard ST.37 is the set of XML DTD components to represent the minimum and extended data elements of an Authority File of patent documents issued by a Patent Office. Annex IV is based on WIPO Standard ST.36, including the naming convention used to identify the names of the specific data components for Authority File. Annex IV includes an Appendix w hich is a sample XML instance of an Authority File structured according to the XML DTD.

<pre><?xml version='1.0' encoding='UTF-8' ?> <!--Annex IV of WIPO Authority File Standard ST.37, XML Data Type Definition (DTD) for Authority Files</pre--></pre>
This entity may be identified by the PUBLIC identifier: ***********************************
PUBLIC "-//WIPO//XSD AUTHORITY FILE 2 <mark>.210</mark> //EN" "AuthorityFile_V2 <mark>210</mark> .dtd" ***********************************

* 2021-08-24: draft proposal revision of the main body, annexes and appendixes of ST.37
<pre>for alignment with the PCT Minimum Documentation requirements: * (i) added elements: <searchable-abstract-code?>, <searchable-description-code?>,</searchable-description-code?></searchable-abstract-code?></pre>
<pre></pre>
* (ii) added attributes @code to be used with <not-searchable-indicator>, referenced by</not-searchable-indicator>
elements listed in (i) * (iii) added element (coarcheable-language-gode) referenced by the elements listed in (i)
<pre>* (iii) added element <searcheable-language-code>, referenced by the elements listed in (i) * (iii) changed values of grouped-af-indicator to 'true' and 'false' which are true boolean</searcheable-language-code></pre>
<u>values</u>
* 2019-07-02: Revision of Annex IV was approved by the Committee on WIPO Standards (CWS) at
its seventh session comprising:
* (i) group-category renamed grouped-af-indicator and is now a list of values 'yes' and 'no'
* (ii) backup-category renamed update-af-category * (iii) additional-comment renamed comment-text *
\star 2018-10-19: Revision of Annex IV was approved by the Committee on WIPO Standards (CWS) at its sixth session.
* ***************
* PUBLIC DTD URL
* http://www.wipo.int/standards/dtd/ST37PatentAuthorityFile_V2_2.dtd

Date first draft created: $2018-09-19$ Date last modified: $2021-08 -24$

```
<!ELEMENT authority-file (authority-file-definition? , authority-file-entry+)>
<!ATTLIST authority-file country
                                       CDATA #REQUIRED
                            date-produced CDATA #REOUIRED >
<!ELEMENT authority-file-definition (exception-code-list | document-kind-code-list | most-
recent-document | data-coverage | comment-text | document-location-uri)+>
<!ATTLIST authority-file-definition grouped-af-indicator (yes | no ) #REQUIRED
                                      group-af-category (date |
                                                          publication-level |
                                                          document-kind ) #IMPLIED
                                      update-af-category (full |
                                                          incremental L
                                                          differential ) #REQUIRED >
<!ELEMENT document-location-uri (#PCDATA)>
<!ELEMENT exception-code-list (exception-code-definition) +>
<!ELEMENT exception-code-definition (exception-code, exception-code-description)>
<!ELEMENT exception-code-description (#PCDATA)>
<!--Publication exception code; single-alphabetic letter code to indicate the reason why
the complete published document, for which the corresponding number is assigned, is not
available:
   C=Defective documents;
    D= Documents deleted after the publication;
   E=Publication number allocated by the IPO representing a PCT national/regional phase
entry (for example Euro-PCT). No corresponding document published. A Euro-PCT application
is an international (PCT) patent application that entered the European regional phase;
    M=Missing published documents;
   N=Not used publication number: e.g. publication numbers have been issued, but finally
have not been allocated to any publication;
    P=Document available on paper only;
    R=Reissued publications;
    U=Unknown publication numbers: e.g. when during compilation of the authority file
certain publication number(s) has been found in the database, but the corresponding
document(s) is (are) missing without known cause. Typically this code can indicate a
database error that requires further analysis;
    W=Applications (or patents) which were withdrawn before the publication;
         this can include lapsed or ceased patents and might depend on national patent law
regulations;
   X=Code available for individual or provisional use by an IPO;
<!ELEMENT exception-code (#PCDATA)>
<!ELEMENT document-kind-code-list (document-kind-code-definition) +>
<!ELEMENT document-kind-code-definition (kind, document-kind-code-description) +>
<!ELEMENT document-kind-code-description (#PCDATA)>
<!ELEMENT most-recent-document EMPTY>
<!ATTLIST most-recent-document publication-number CDATA #REQUIRED
                                  publication-date CDATA #REQUIRED >
<!ELEMENT data-coverage (publication-date-range? , publication-number-range? , kind-code-</pre>
coverage? , exception-code-coverage? , data-coverage-uri?)>
```

```
<!ELEMENT publication-date-range EMPTY>
<!ATTLIST publication-date-range start-date CDATA #REQUIRED
                                    end-date CDATA #REQUIRED >
<!ELEMENT publication-number-range EMPTY>
<!ATTLIST publication-number-range begin-range-number CDATA #REQUIRED
                                     end-range-number CDATA #REQUIRED >
<!ELEMENT kind-code-coverage (kind, document-total-quantity)*>
<!ELEMENT document-total-quantity (#PCDATA)>
<!ELEMENT exception-code-coverage (exception-code, document-total-quantity) *>
<!ELEMENT data-coverage-uri (#PCDATA)>
<!ELEMENT authority-file-entry (publication-reference , exception-code? , application-
reference? , priority-claims?, searchable-abstract-code?, searchable-description-code?,
searchable-claims-code?)>
<!ELEMENT publication-reference (document-id)>
<!-- document-id tag as defined in ST.36 -->
<!ELEMENT document-id (country , doc-number , kind? , date?)>
<!--Two-letter alphabetic codes which represent the names of states, other entities
and intergovernmental organizations the legislation of which provides for the protection of
IP rights or which organizations are acting in the framework of a treaty in the field of
IP. e.g. "XX".
Always in upper case. -->
<!ELEMENT country (#PCDATA)>
<!--Doc-number: The number of the referenced patent (or application) document-->
<!ELEMENT doc-number (#PCDATA)>
<!--Document kind code; e.g., A1 (WIPO ST.16) -->
<!ELEMENT kind (#PCDATA)>
<!--Date: components of a date. Format: YYYYMMDD (WIPO ST.2) -->
<!ELEMENT date (#PCDATA)>
<!--Application reference information: application number, country.
In case of a filing reference, the kind code is empty and the date refers to the filing
date.
<!ELEMENT application-reference (country , doc-number , filing-date?)>
<!--Filing Date: components of a date. Format: YYYYMMDD (WIPO ST.2) -->
<!ELEMENT filing-date (#PCDATA)>
<!--Priority application identification (priority-claim)-->
<!ELEMENT priority-claims (priority-claim+)>
<!ELEMENT priority-claim (country , doc-number , kind , date)>
<!ATTLIST priority-claim sequence
                                              CDATA #REQUIRED
                            priority-claim-kind (national | regional | international )
#REQUIRED >
     1/07/2019
                 Add CWS/7/17 for alignment with XSD <!ELEMENT additional-
<!ELEMENT comment-text (#PCDATA)>
<!-- Series of two-letter language codes that indicate, for searchable description,
abstract and claim text, the language made available by the Office either as the original
language or an official translation or alternatively 'N' if this text is not searchable or
'U' if it is unknown whether this text is searchable and the language it is available in
<!ELEMENT searchable-abstract-code (not-searchable-code | searchable-language-code+)>
```

```
<!ELEMENT searchable-description-code (not-searchable-code| searchable-language-code+)>
<!ELEMENT searchable-claims-code (not-searchable-code | searchable-language-code+)>
<!ELEMENT not-searchable-code EMPTY >
<!-- N means the information is not available and U indicates that it is unknown whether this information is available or not-->
<!ATTLIST not-searchable-code code (N | U) #REQUIRED>
<!-- WIPO ST.96 language code, e.g., en, de, ja, etc.-->
<!ELEMENT searchable-language-code (#PCDATA)>
```

[Appendix to ST.37 Annex IV follows]

APPENDIX

Editorial Note by the International Bureau:

The Appendix to Annex IV of ST.37 can be found in Annex III of this document.

[End of Annex IV and of Standard]

[Annexes II (Appendix to ST.37 Annex III) and III (Appendix to ST.37 Annex IV) to this document follow]