

# WIPO



PCT/CTC/XV/2  
 ORIGINAL : English  
 DATE : May 12, 1993

## WORLD INTELLECTUAL PROPERTY ORGANIZATION GENEVA

### INTERNATIONAL PATENT COOPERATION UNION (PCT UNION)

### PCT COMMITTEE FOR TECHNICAL COOPERATION

#### Fifteenth Session

**Geneva, June 3 to 11, 1993**

PCT MINIMUM DOCUMENTATION--CONSIDERATION OF THE DESIRABILITY OF  
 REVISING PCT RULE 34 (CUT-OFF DATE OF THE MINIMUM DOCUMENTATION)

prepared by the International Bureau

1. In its circular of January 29, 1993, the International Bureau requested all members of the PCT Committee for Technical Cooperation (PCT/CTC) to provide information relevant to a possible revision of Rule 34 of the PCT Regulations in relation to the 1920 cut-off date for the PCT minimum documentation (see Circular PCT 488).

2. In response to the above-mentioned circular, the International Bureau had received, as of May 12, 1993, replies from the following 12 Offices (five of which are International Searching Authorities): AT (Austria), CZ (Czech Republic), DE (Germany), DK (Denmark), EP (European Patent Office), GB (United Kingdom), JP (Japan), NL (Netherlands), PL (Poland), PT (Portugal), SE (Sweden) and US (United States of America). Circular PCT 488 is reproduced in Annex 1; the replies to it are reproduced in Annexes 2 to 13 to this document.

3. The comments contained in those replies and the information given in the letter from AU dated December 23, 1992, may be summarized as follows:

(a) one Office (PT) is in favor of amending the 1920 cut-off date for the minimum documentation mentioned in PCT Rule 34.1(c), and one Office (DK) is in favor of considering the amendment;

(b) two Offices (NL, SE) clearly state that they prefer not to amend the 1920 cut-off date;

(c) a number of Offices (AT, AU, DE, EP, GB, JP, PL, US) provide results of their investigations on the frequency and relevance of citations made in search reports or patent documents and referring to patent literature. Some Offices give information on the coverage of their search file holdings.

4. According to the studies of several Offices, among them International Searching Authorities, an average of 5 to 6% of all cited patent documents were published before 1940, which means that they are older than 50 years. Thus, the number of patent documents cited in international search reports would be reduced by that amount if the documents published between 1920 and 1940 were to be removed from the search files.

5. It should also be noted that, even if documents older than 50 years were not part of the PCT minimum documentation, such documents would, nevertheless, need to be covered in international searches carried out by any International Searching Authority if they were retained in the search files (for example, for the purposes of conducting searches for the purposes of national law), since PCT Article 15(4) requires the Authority to "endeavor to discover as much of the relevant prior art as its facilities permit," which includes patent documents not part of the PCT minimum documentation.

6. The PCT Committee for Technical Cooperation is invited to give its advice as to whether changing the cut-off date of 1920 is desirable.

[Annexes follow]

WORLD INTELLECTUAL PROPERTY  
ORGANIZATION

世界知识产权组织

ORGANIZACION MUNDIAL  
DE LA PROPIEDAD INTELECTUAL



ORGANISATION MONDIALE  
DE LA PROPRIÉTÉ INTELLECTUELLE

المنظمة العالمية للملكية الفكرية

ВСЕМИРНАЯ ОРГАНИЗАЦИЯ  
ИНТЕЛЛЕКТУАЛЬНОЙ СОБСТВЕННОСТИ

C. PCT 488  
081.3

January 29, 1993

Madam,  
Sir,

This circular is addressed to all members of the PCT Committee for Technical Cooperation ("the Committee"). It requests information relevant to a possible revision of Rule 34 of the PCT Regulations in relation to the 1920 cut-off date for the PCT minimum documentation.

The question of the cut-off date for the PCT minimum documentation was considered by the Committee at its fourteenth session in December 1992. The Committee agreed that a more detailed study was needed, taking into account the volume of the documentation concerned, the frequency and relevance of citations and the technical fields in which older documents were regularly cited. It requested the International Bureau to send a circular to all members of the Committee asking them to provide detailed information relevant to those issues. (See documents PCT/CTC/XIV/2 and PCT/CTC/XIV/3, paragraphs 15 and 16.)

Your Office is accordingly requested to provide relevant information. That information should cover such items as search file holdings, and the incidence and relevance of citations, in search reports and during examination, of publications of various ages (including publications older than the present (1920) cut-off date).

During the Committee's session, the Delegation of Australia outlined the results of certain investigations it had already undertaken. Subsequently, the Delegation sent to the International Bureau a number of charts setting out those results. A copy of the Delegation's letter to the International Bureau of December 23, 1992, together with attached charts, is annexed to this circular for your information.

./.

/...

C. PCT 488  
081.3

2.

In order to enable information provided in response to this circular to be distributed for consideration by the Committee at its next meeting to be held from June 3 to 11, 1993, your Office is requested to provide its response to the International Bureau by March 31, 1993.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Turled".

François Curchod  
Deputy Director General



PATENT OFFICE

92/00164

International Bureau  
WIPO  
34, chemin des Colombettes  
1211 GENEVA

Re: PCT COMMITTEE FOR TECHNICAL COOPERATION

I refer to the fourteenth session of the PCT Committee for Technical Cooperation which was recently held.

At that meeting, it was decided that a more detailed study was required on the issue of revising PCT Rule 34 (cut-off date of the minimum documentation). It was also decided that the International Bureau would send a circular to all members of the committee before February 1993 - see para 16 of the report of that meeting (PCT/CTC/XIV/3 Prov.).

Australia had, prior to the meeting, conducted some investigations on the matter, and had prepared a number of charts which graphically illustrate a number of facts. Australia was unable to display these at the meeting, as there was no overhead projector.

I have therefore enclosed these charts, and suggest that you may wish to include them in the circular that the International Bureau sends to the members of the Committee.

Most of the charts are based on an analysis of International Search Reports contained in all PCT pamphlets published on 9 July 1992. The chart of citations by IPC Section is based on an analysis of search reports issued by Australia in 1991.

Yours sincerely

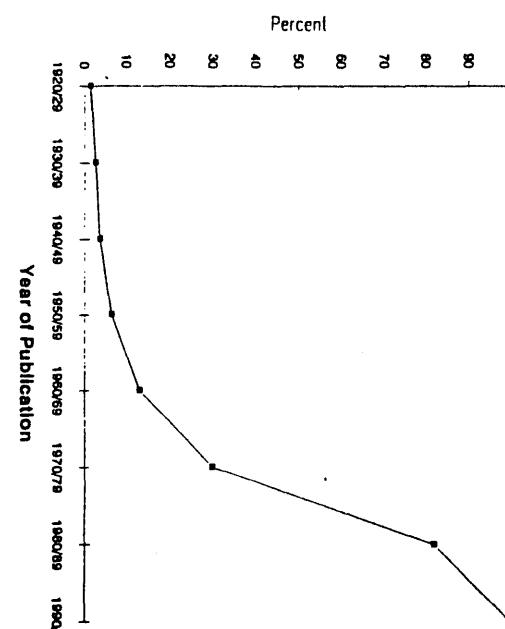
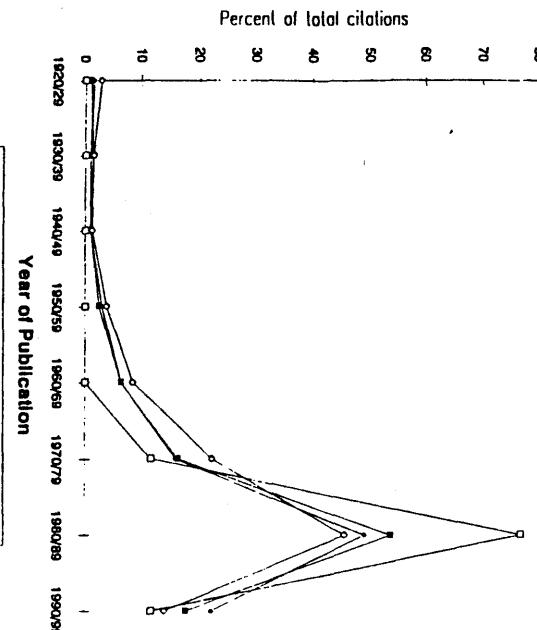
David Herald  
Assistant Commissioner of Patents

23 December 1992

PO BOX 200 WODEN ACT 2600 AUSTRALIA  
TELEPHONE: (06) 283 2211 FAXSIMILE: (06) 281 1841  
TELEX: COMPAT AA 81517 TTY: (06) 283 2383

Year of Publication

■ - EP - □ - JP • - US ○ - Oh



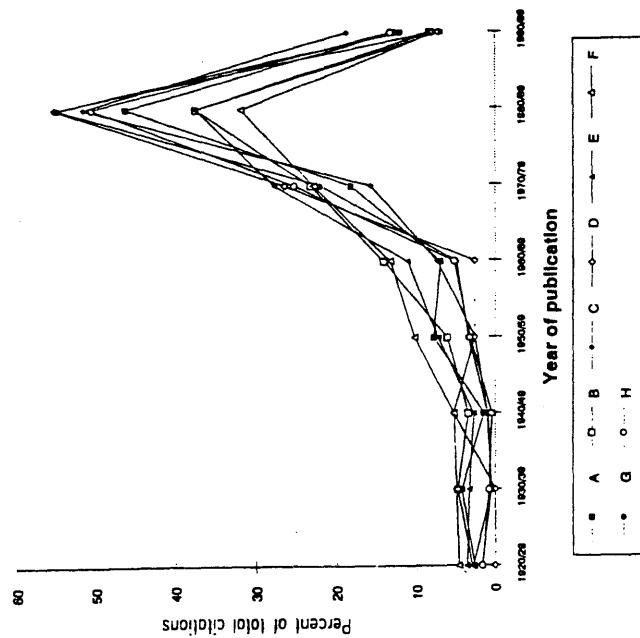
Citations by ISA

Cumulative Percentage of Documents Cited

Annex to C, PCT 488, page 3

AU CLASS XLC

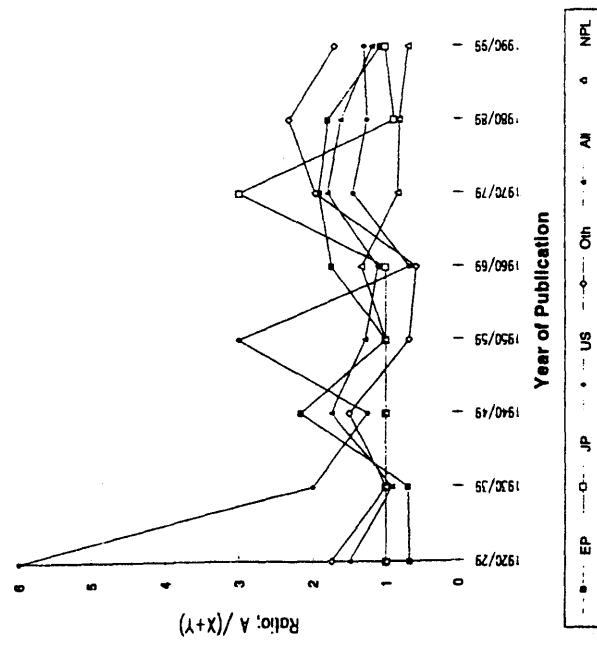
Percent of total citations, by IPC Section



Page 1

ISARATO/XLC

Ratio - number of A citations to X & Y  
citations - by ISA



Page 1



THE PATENT OFFICE  
JAPANESE GOVERNMENT

Address : 4-3, Kasumigaseki 3-chome  
Chiyoda-ku, Tokyo 100,  
Japan

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Telex : JAPATENT J27442  
FAX : (03)3595-2735

Ref. 5/IP/19/HM  
Mar. 10, 1993

Mr. Francois Curchod  
Deputy Director General  
World Intellectual Property  
Organization  
34 Chemin des Colombettes  
1211 Geneva 20  
Switzerland

**PCIPI** | 16 MARS 1993  
11-085

Re : The cut-off date for the PCT minimum documentation  
( C.PCT 488 )

PCIPI

Dear Mr. Curchod.

In reply to your circular letter, C.PCT 488 dated January 29, 1993, I am pleased to provide relevant information we have.

A document is attached to this letter, which shows the percent of total citations given every coverage of the publication year based on the year of filing applications.

According to our statistic, the percent of citations of gazettes and documents published within 30 years from the publication year is ~ 98 %.

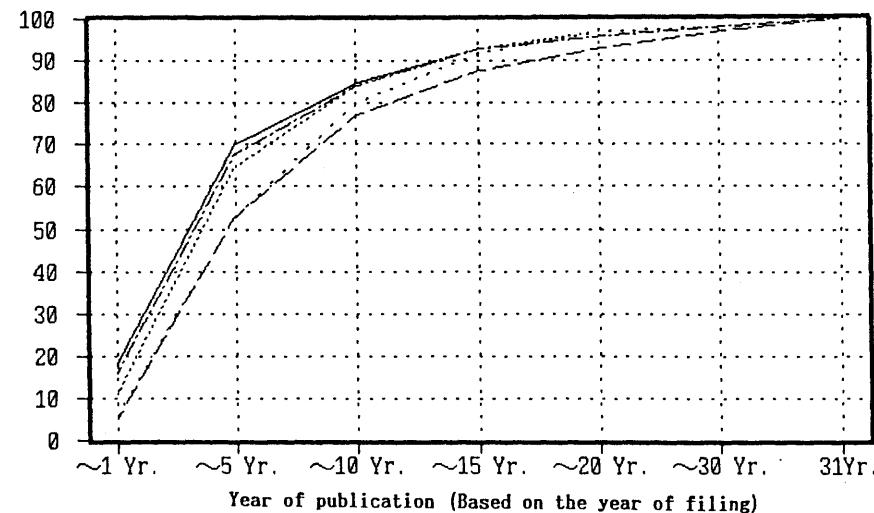
Sincerely yours,

Teruhisa Simomichi  
Director  
Patent Information

Percent of total citation, by kind of documents.

	~1 Year	~5 Year	~10 Year	~15 Year	~20 Year	~30 Year	31 Year ~
Japanese Gazettes	18	70	85	93	96	98	100 %
Foreign Gazettes	11	65	84	93	97	98	100
other Japanese documents	6	53	80	92	97	98	100
other foreign documents	5	53	77	88	93	97	100
total	16	68	84	93	96	98	100

Percent of  
total citations



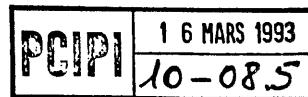
— Japanese Gazettes    - - Foreign Gazettes    ··· other Japanese documents    --- other foreign documents    - - - total

DER PRÄSIDENT  
DES DEUTSCHEN PATENTAMTS

8000 München 2, den 11.03.93  
Zweibrückenstraße 12  
Telefon (089) 21 95-0  
Durchwahl (089) 21 95-3927  
Telex 5 23 534  
Telefax (089) 21 95-22 21  
Geschäfts-Nr.: 9482/4-004-H2

Bitte in der Antwort stets die Geschäftsnummer angeben

World Intellectual  
Property Organization  
c/o M. François Curchod  
Deputy Director General  
34, Chemin des Colombettes  
1211 Genève 20



PCT/P1

Re.: Cutoff date acc. to PCT rule 34  
~~WIPO Circular C.PCT 488~~  
081.3 dated Jan.29, 1993

Dear Mr. Curchod,

referring to the above circular, I have pleasure to enclose a short paper showing the results of a recent citation study carried out at the German Patent Office. As a basis, we took prior art citations contained in DE patent documents (mostly patent specifications) published in 1992. With the aid of the publication numbers of the cited patent documents ( $\approx$  90 000), the latter were ordered according to the time ranges in question, i.e. "before 1920, 1920 .. 1930, ..., 1990 .. 1992". For cited DE A,B,C and U documents, which do not have continuous publication numbers, we used the file numbers. The results of the study are explained in the attached document.

We were not in a position to include the relevance of citations into our study, because we do not record so-called X-documents in the search reports of patent and utility applications.

We are looking forward to the June meeting of the PCT/CTC working group.

Yours sincerely  
by order

A. Wittmann  
(A. Wittmann)

# German Patent Office

attachment to our letter to Mr. Curchod of March 11, 1993

Citation study carried out at the German Patent Office in February 1993

## 1. Procedure

First, all records of DE-Patent documents published in 1992 contained in the German Patent Database PATDPA, which had entries in the (citation-) field REP were selected by the search command. From the records, the entries within the fields "SN" and "REP" were downloaded. (Prior art citations are entered into PATDPA together with a "main publication", i.e. an A, C or U document. Search reports made after a publication, e.g. A1 are not recorded in PATDPA. However, this loss of prior art information is negligible in this context).

As a next step, the elements of the individual entries of the cited documents, i.e. Country Code, publication number, and kind of document codes were separated by a blank and placed into one line. This was done with a simple program written in POWER BASIC.

Then, a DBF structure was created in dBase IV which contained the data elements mentioned in the above paragraph. Using the command "append from a:xxxxxxxx.TXT delimited with blank", the data formatted by the BASIC program were read into the DBF file. Using the command "count for << larger than first number .and. smaller than last number>>" embedded in a large dBase program (10 KB) the data were ordered according to the time ranges in question. (A 86486 PC needed 7 hours to do this job).

Lastly, the results from this evaluation were typed into a spread sheet under EXCEL 4.0. and printed out in the form of tables and graphics.

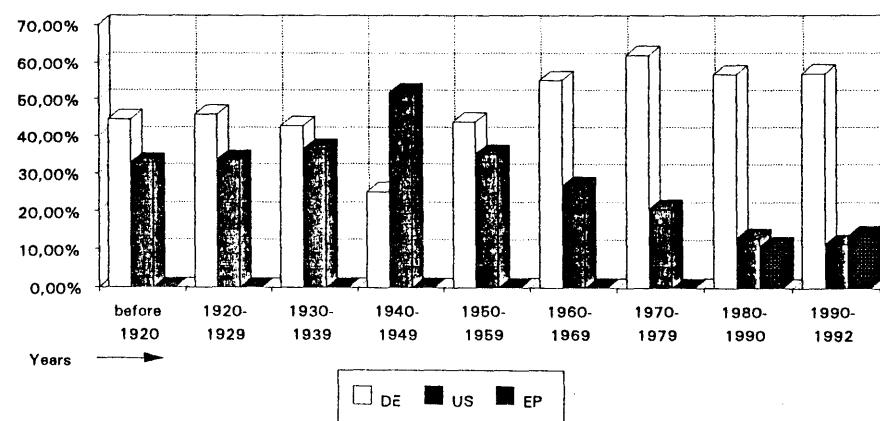
## 2. Results of the study

### (i) Table 1

- the percentage of cited DE-documents rises from 44% (before 1920) to 64% (1992)
- the percentage of cited US specifications goes down from 33 percent (before 1920) to 11 % (1992)
- starting 1980, citations of EP documents are next to DE documents

Percentage distribution of DE, US and EP patent documents cited as prior art in DE-Documents published 1992 according to the year of their publication ("before 1920, 1920..1930... 1990-1992")

Fig. 1

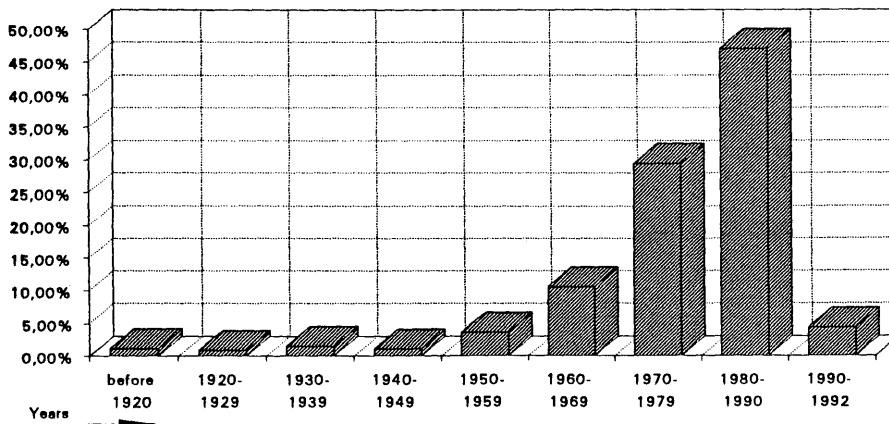


(ii) Table 2

- 3.61% of the total number of citations within the individual time ranges are "older" than 50 years
- 91.4% of the total number of citations within the individual time ranges are "younger" than 33 years

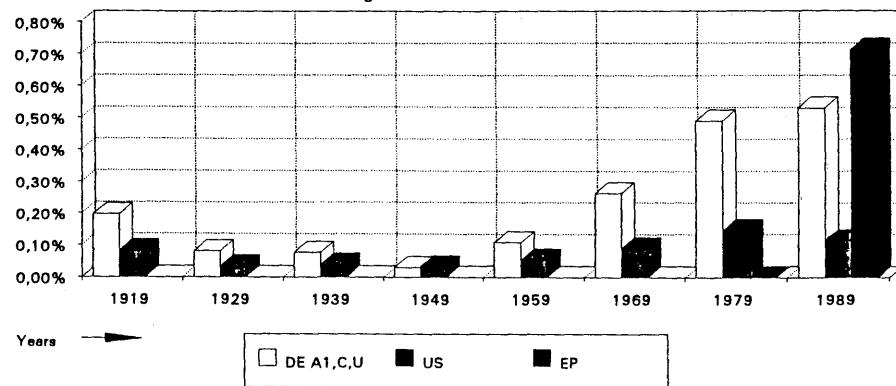
Percentage distribution of all patent documents cited as prior art in DE- Documents published 1992 arranged according to the time ranges "before 1920, 1920 to 1930... 1990 to 1992"

Fig. 2



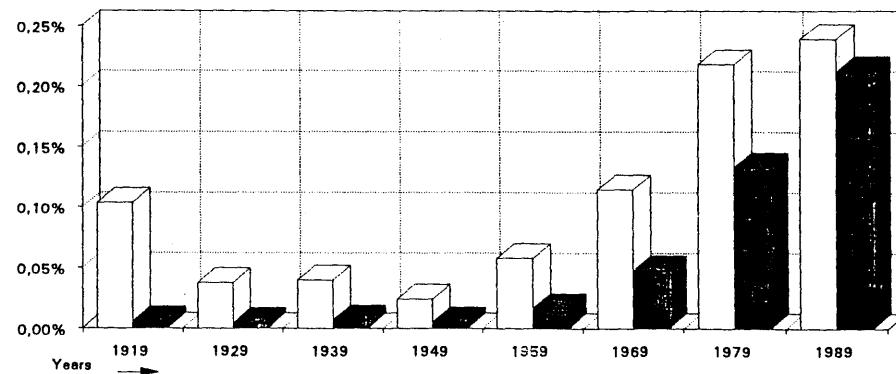
Percentage distribution of DE,US and EP patent documents cited as prior art in DE documents published 1992 with respect to percentage of patent documents contained in the search file at the end of the respective time range

Fig. 3



Percentage distribution of all patent documents cited as prior art in DE documents published 1992 with relation to the number of patent documents contained in the search file  
(white bars: end of time range;  
gray bars : end of 1989)

Fig. 4



(iii) Fig. 3 and 4

- taking the number of documents in the search file at the end of 1920, the proportion of DE documents cited 1992 amounts to 0.2% in 1989, this proportion has risen to 53%
- taking the number of documents contained in the search file in the end of 1989 as a reference, the percentage of citations rises from 0.01% (end 1919) to 0.21% (end 1989). Adding the percentage figures, 1.34% of the total number of documents contained in the search file were cited in 1992.

The  
Patent  
Office

PCPI 23 MARS 1993  
12-08.S

The  
Patent  
Office

Mr F Curchod  
Deputy Director General  
World Intellectual  
Property Organization  
34 Chemin des Colombettes  
1211 GENEVA 20  
Switzerland

Our Ref:  
Your Ref:

Dear Mr Curchod

In response to the request in circular C.PCT 488 081.3, we have pleasure in supplying the following information:

Our minimum search file holdings in all technical areas comprise: UK specifications back to at least GB 200,000 (approximately to year 1920), all published EP and WO applications and all US specifications back to year 1974.

We have recently carried out a limited investigation into the incidence of older citations in search reports. In particular, we have examined the frequency with which GB specifications published before serial number 500,000 (ie pre-1939) are cited.

We find that currently about 6.5% of GB applications cite GB specifications published pre-1939, with about 20% of these citing exclusively pre-1939 GB specifications (ie less than 1.5% of total GB applications cite only GB specifications with serial numbers below 500,000). Of the total GB specifications cited, 6% were published pre-1939.

The main technical fields (by approximate IPC) in which these pre-1939 specifications are exclusively cited are A41 (wearing apparel), A47 (furniture, domestic appliances), A63 (toys and games), B60-B67 (vehicles, transporting, packaging), E02, E04 (buildings), E05 (fasteners), F01-F04 and F16 (engines and machine elements) and F21,F23 and F24 (heaters, burners).

Currently, only about 3% of GB applications citing pre-1939 GB specifications are in the technical fields corresponding to IPC sections C, D, G and H.

The Patent Office

Concept House  
Cardiff Road  
Newport  
Gwent NP9 1RH

Direct Line 0633-813550  
Switchboard 0633-814000  
Fax 0633-814827

18 March 1993

You may also be interested in estimates of the effects on the quality of the international search using cut-off dates of 1935, 1940 and 1945, which we derived from studies made by WIPO (PCPI/P225/82) and the EPO (World Patent Information vol 3, no 2, pages 56-60). It should be noted that these figures relate to all cited patents.

Search limited to patents published after	Percentage of citations found	Percentage of citations missed
1935	93.5	6.5
1940	91.5	8.5
1945	89.5	10.5

The figure of 8.5% of citations which would be missed by limiting the search to patents published after 1940 compares favourably with the figure of 6% found for cited GB specifications published pre-1939.

Yours sincerely

GRAHAME K LINDSEY  
Superintending Examiner  
Classification and Documentation Division

## OCTROOIRAAD (Netherlands Patent Office)

PC P1 083

2 Patentlaan • P.O. Box 5820 • 2280 HV Rijswijk • The Netherlands • Postbank account 17300  
 Telephone 070-3986655 • Telex 33265-OCTRDI-NL • Telefax 070-3900190

Your letter and ref.  
 29.01.93

Our reference  
 S93.083 DS/fhj

Enclosure(s)  
 -

Date: 22 March 1993

Subject: Circular PCT 488/081.3

Mr. F. Curchod  
 Deputy Director General  
 World Intellectual Property  
 Organization (WIPO)  
 34, Chemin des Colombettes  
 1211 GENEVA 20  
 Switzerland

Dear Sir,

In connection with your circular PCT 488/081.3 of January 29, 1993, concerning information relevant to a possible revision of PCT Rule 34, I herewith inform you that the Netherlands Patent Office does not have available any statistical data about the citation and/or relevance of patent documents issued before 1940 as state of the art during the examination of recently filed patent applications. However examiners, in particular those working in the mechanical field, have indicated that such documents, though rather old, quite often are important as state of the art describing the principle behind the purported invention dealt with in the application to be examined.

For this reason, the Netherlands Patent Office wants to be careful as regards the deletion of certain patent documents from the PCT minimum documentation and would prefer the cut-off date mentioned in PCT Rule 34(1)(c) not to be amended. In connection herewith we furthermore note, that search files containing these old patent documents in machine-readable form, are likely to appear on the market within a few years.

The use of online searching often is illustrated with the expression "don't reinvent the wheel". It would be very sad if the PCT minimum documentation, through a change in its cut-off date, no longer could be regarded as a reliable tool to establish the novelty and non-obviousness of purported inventions.

Yours sincerely,



S. de Vries  
 Head Chemical Division



PCIP	2 AVR. 1993
	18 - 085

# URZĄD PATENTOWY RZECZYPOSPOLITEJ POLSKIEJ

OFFICE DES BREVETS DE LA  
REPUBLIQUE POLONAISE

THE PATENT OFFICE  
REPUBLIC OF POLAND

ПАТЕНТНОЕ ВЕДОМСТВО  
РЕСПУБЛИКИ ПОЛЬШИ

Warszawa, dnia ..... 199.....  
*29/03* 9

World Intellectual  
Property Organization  
Mr Francois Curchod  
Deputy Director General

34, chemin des Colombettes  
1211, Geneve 20  
Suisse

Our ref.: ZP-III-PCT/7/93

Dear Sir,

In answer to your letter dated 29 th January 1993 No.C.  
PCT488/081.3 we are kindly informing you that in the procedure  
of patent examinations we are using search file holdings the  
numbers of which are given below:

Years	Documents on paper carrier /in thousands/	Documents on microfilms, microfiles and on aperture cards / in thousands/	Documents on optical discs /in thousands/
up to 1919	600	-	-
1920-1939	2147	28	-
1940- 1959	2291	383	-
1960-1979	7045	2540	-
1980-1993	4693	3416	537

We enclose the details on search file holdings in our Office.  
As for the degree of taking advantage /referring/ of the  
documents from particular periods of time, we can give only general  
data because we are not keeping the relevant statistics.

As for the examinations in the fields of: mechanics, metallur

-2-

and inorganic chemistry we are using the search file holdings from  
the years 1920-1993 and also from the oldest holdings containing  
patent search files up to 1919.

As for the examinations in the field of electricity we are  
using the holdings since at least 1940. The examinations in the fields  
of electronics and organic chemistry need the files since at least  
1950. In the field of microbiology we are using the holdings since  
at least 1970.

With best regards  
*Bogdan Rokicki*  
Bogdan Rokicki

Director of the Receiving  
Department

Enclosure 1

SEARCH FILE HOLDINGS OF THE PATENTS COLLECTED IN POLISH PATENT OFFICE  
(values given in separate columns show the approximate number of copies)

No:	CODE OF THE COUNTRY	Years:	to 1919	1920-1939		1940-1959		1960-1979		1980-1993			
		Carrier:	P	P	F	P	F/M/C	P	F/M/C	P	F/M/C	D	
1.	AT		20 000		36 000	-	70 000	-	120 000	97 000	41 700	28 000	1 550
2.	AU		-		-	-	-	-	53 000	20 000	-	112 000	-
3.	BE		-		-	-	-	-	-	32 000	-	178 000	-
4.	BG		-		-	-	-	-	11 500	-	24 000	-	-
5.	CA		-		-	-	130 000	-	406 000	-	6 500	132 000	-
6.	CH		-		60 000	-	125 000	-	282 000	-	65 000	58 000	-
	CN		-		-	-	-	-	-	-	6 000	37 000	-
8.	CS		-		40 000	-	45 000	-	105 000	80 000	84 500	42 000	-
9.	CU		-		-	-	-	-	-	-	500	-	-
10.	DE		450 000		751 000	-	460 000	180 000	1 939 000	553 000	812 400	443 500	
11.	DK		-		-	-	38 000	-	33 000	17 500	21 000	21 400	-
12.	EP		-		-	-	-	-	200	6 000	632 000	427 000	248 000
13.	FI		-		-	-	-	-	40 000	-	16 500	13 500	-
14.	FR		30 000		50 000	-	240 000	-	932 000	-	254 000	-	-
15.	GB		100 000		250 000	-	350 000	-	602 000	440 000	305 000	280 000	13 000
16.	HU		-		-	-	10 000	-	26 000	-	34 000	-	-

No:	CODE OF THE COUNTRY	Years:	to 1919	1920-1939		1940-1959		1960-1979		1980-1993		
		Carrier:	P	P	F/M/C	P	F/M/C	P	F/M/C	P	F/M/C	D
17.	IT	-		100 000	-	180 000	-	261 000	-	-	3 200	-
18.	NL	-		-	-	-	-	50 000	7 500	320 000	38 000	-
19.	NO	-		-	-	-	-	45 000	-	65 000	20 000	-
20.	PL	-		85 110	28 370	40 560	13 520	183 750	61 250	162 210	54 070	-
21.	RO	-		-	-	3 000	-	28 500	-	32 000	-	-
22.	SE	-		-	-	80 000	-	96 000	76 500	102 000	40 000	-
23.	SU	-		-	-	120 000	-	528 000	400 000	775 000	568 000	-
24.	US	-		775 000	-	400 000	190 000	1 296 000	750 000	925 000	867 000	215 000
25.	VN	-		-	-	-	-	-	-	30	-	-
26.	WO	-		-	-	-	-	-	-	-	54 000	60 000
27.	YU	-		-	-	-	-	8 000	-	9 000	-	-

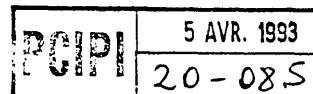
CARRIERS- EXPLANATIONS OF THE ABBREVIATIONS

- P - paper
- F - microfilm
- M - microfile
- C - aperture card
- D - CD ROM - optical disque

[Annex 7 follows/  
L'annexe 7 suit]

68

INDUSTRIAL PROPERTY OFFICE  
Revoluční 7, 113 46 Prague 1  
Czech Republic



World Intellectual Property  
Organization  
Mr. Francois Curchod  
Deputy Director General

March 30, 1993

C. PCT 488  
081.3

Dear Sir.

We refer to your letter of January 29, 1993 and we regret indeed, that we cannot give you the requested information, as Industrial Property Office of Czech Republic is not providing such statistic at all.

Yours sincerely

*Marta Hošková*  
Marta Hošková  
Head of PCT Department

Danish Patent Office

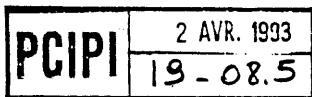
D 85

Ministry of Industry

**Patentdirektoratet**

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DK-2630 Taastrup, Denmark  
Telephone +45 43 71 71 71  
Telex +45 43 71 71 70  
Telex 16046 DPO DK  
Giro 4 020553

Francois Curchod  
Deputy Director General  
WIPO  
34, Chemin des Colombettes  
CH 1211 Geneve 20  
Schweiz



Our ref.: 89-34311-1  
Your ref.: C. PCT 488 081.3

Date: 30 March 1993

**Re: Cut-off date for PCT minimum documentation**

Dear Mr. Curchod

With reference to your letter dated January 29, 1993 and in view of both the Australian tables and our own experiences (we have no printed national statistics) the Danish Patent Office agrees that a cut-off date later than 1920 might be taken into consideration.

Yours sincerely

Helgen Rasmussen

Deputy Director General

[Annex 9 follows/  
L'annexe 9 suit]

ENV POR: INST.NACIONAL PRO. IND.:90- 3-59 ; 14:59 ; 351 1 875308- 4122 7335428:# 2/ 2

085

S.  R.

**IMPI** MINISTÉRIO DA INDÚSTRIA E ENERGIA  
 INSTITUTO NACIONAL DA PROPRIEDADE INDUSTRIAL

Mr. François Curchod  
 Vice-general director of WIPO

34, Chemin des Colombettes,  
 1211 GENÈVE 20

SUISSE

PCIPI	31 MARS 1993
	14 - 08.5

Sua referéncia:

Sua comunicação de:

Nossa referéncia:

Data:

GDSP/017

LISBOA, 93.03.30

ASSUNTO:

*Answering your circular C. PCT 488, dated 29 January 1993, concerning an eventual revision of the rule 34 of Regulations under the PCT, regarding the date of departure (1920) of the minimum documentation PCT, our opinion is the following:*

*Our searches are principally made from EPO databases, the CD-ROM ESPACE, EPIDOS and the EPOQUE; we can say that the documents cited in the search reports are all after that date.*

*So as Australia we think, and we believe that it isn't necessary to include in the minimum documentation PCT, documents with more than 50 years.*

Yours sincerely,

O Director de Serviços de Patentes,



( Engº. Isabel Afonso )



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

March 31, 1993

FILE

Mr. Francois Curchod  
Deputy Director General  
World Intellectual Property Organization  
34, chemin des Colombettes  
1211 Geneva 20  
SWITZERLAND

PCIP	26 MARS 1993
	15-08.S

Re: WIPO PCT Circular 488 - Re: Information relevant to a possible revision of Rule 34 of the PCT Regulations in relation to the 1920 cut-off date for the PCT minimum documentation.

Dear Mr. Curchod,

As requested, our Office conducted a study on cited patent references, similar to the study conducted by the Australian Patent Office.

The U.S. search file, from which the cited references were obtained, contains, in addition to PCT minimum documentation, all U.S. patents (back to 1790) and selected patents from other countries which were published prior to the 1920 cut-off date.

The sample selected for the study included all patent references cited in the 7637 U.S. patents which issued in January of 1993. The results of that study are shown in the tables depicted in Attachments I-III.

It is hoped that this information will be helpful in the determination of a cut-off date for PCT minimum documentation.

Sincerely,

J. R. Goudeau, Director  
International Liaison Staff  
Search and Information Resources

Attachment I  
Citations in U.S. Patents Issued in January - 1993

Decade of Citation	Number of Citations	Cum. Number of Citations	Percent of Total Citations	Cum. Percent of Total Citations
1830's	1	1	0.00%	0.00%
1840's	2	3	0.00%	0.00%
1850's	2	5	0.00%	0.01%
1860's	34	39	0.05%	0.05%
1870's	86	125	0.12%	0.17%
1880's	142	267	0.19%	0.36%
1890's	256	523	0.34%	0.70%
1900's	387	910	0.52%	1.23%
1910's	574	1484	0.77%	2.00%
1920's	949	2433	1.28%	3.28%
1930's	1443	3876	1.94%	5.22%
1940's	1358	5234	1.83%	7.05%
1950's	2865	8099	3.86%	10.91%
1960's	5634	13733	7.59%	18.50%
1970's	13586	27319	18.30%	36.80%
1980's	36534	63853	49.21%	86.01%
1990's	10383	74236	13.99%	100.00%

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**Attachment II**  
**Citations in U.S. Patents Issued in January - 1993**  
**by Decade and Discipline**  
**(if information was available)**

Decade of Citation	IPC SECTION							
	A	B	C	D	E	F	G	H
1830's	1	0	0	0	0	0	0	0
1840's	0	2	0	0	0	0	0	0
1850's	2	0	0	0	0	0	0	0
1860's	11	12	0	0	1	3	0	1
1870's	22	19	1	1	1	11	1	0
1880's	46	26	2	0	8	15	4	0
1890's	68	57	0	2	16	29	9	3
1900's	99	91	2	4	24	52	8	5
1910's	163	119	6	5	44	75	29	2
SUBTOTAL prior to 1920	412	326	11	12	94	185	51	11
TOTALS	10265	14299	6268	759	2062	5690	8440	6538

**Attachment III**  
**Citations in U.S. Patents Issued in January - 1993**  
**by Decade and Country**

Decade of Citation	COUNTRY						
	DE	EP	FR	GB	JP	RU	US
1830's	0	0	1	0	0	0	0
1840's	0	0	0	0	0	0	2
1850's	0	0	0	1	0	0	1
1860's	0	0	0	1	0	0	33
1870's	2	0	1	4	0	0	79
1880's	2	0	0	11	0	0	129
1890's	6	0	0	16	0	0	234
1900's	9	0	11	15	0	0	346
1910's	13	0	5	22	0	0	527
SUBTOTAL prior to 1920	32	0	18	70	0	0	1351
1920's	41	0	27	45	0	0	822
1930's	44	0	33	74	0	0	1254
1940's	21	0	29	62	2	0	1197
1950's	88	0	85	106	3	3	2447
1960's	139	0	162	305	37	16	4793
1970's	619	30	233	423	393	96	11629
1980's	919	2097	249	822	3345	230	28258
1990's	93	346	24	47	341	5	9413
TOTALS	1996	2473	860	1954	4121	350	61164
							830

SECTION A: HUMAN NECESSITIES  
SECTION B: PERFORMING OPERATIONS;  
TRANSPORTING  
SECTION C: CHEMISTRY; METALLURGY  
SECTION D: TEXTILES; PAPER  
SECTION E: FIXED CONSTRUCTIONS

SECTION F: MECHANICAL ENGINEERING;  
LIGHTING; HEATING; WEAPONS  
BLASTING  
SECTION G: PHYSICS  
SECTION H: ELECTRICITY

ANNEX 11

Translation of letter dated April 14, 1993

From: The European Patent Office  
Principal Directorate Documentation

To: Mr. Curchod  
Deputy Director General, WIPO

REFERENCE RB/93.93/SV  
DATE 14.04.93

Dear Mr. Curchod,

In reply to your circular PCT 488, I have pleasure in sending you herewith the statistics that give a certain number of parameters for each INTCL subclass and which may help in assessing the effect of a possible limitation of the PCT minimum documentation to the documents published within the last fifty years.

Sincerely yours,

R. Baré  
Principal Director of Documentation

9259r

You will find at annex a table reproducing a certain number of parameters by INTCL subclass for 1991.

**A. Brief Description of the Parameters:**

1. Subclasses for which at least five files have been raised.
2. "Spread" of consultation, i.e. the ratio between the number of consultations made in the subclass concerned and the overall number of consultations.
3. "Spread" of citations, i.e. the ratio between the number of citations from the subclass concerned and the whole of the citations from the systematic documentation.
4. Number of citations from the non-systematic documentation.
5. Number of citations from the subclass studied.
6. Number of citations outside the subclass, but belonging to the systematic documentation.
7. Number of files dealt with.
8. Total number of documents consulted.
9. Number of documents consulted for each file.
10. Percentage of citations at least seven years old.
11. Percentage of citations at least 12 years old.
12. Percentage of citations at least 22 years old.
13. Percentage of citations at least 32 years old.
14. Percentage of citations at least 42 years old.
15. Percentage of citations at least 52 years old.

**B. Limitations of the study:**

\*The study was carried out using the SERR files. To make it possible to compare if necessary the statistical data from one year to the other, it was necessary to remove the international files (SA, SAE and SN), since those files have only been entered in full since 1992. Duplicates were also removed. The study was limited to files dealt with in The Hague. The citations are not limited to "patent" citations.

\*The subclasses for which less than five files were raised in 1992 have been removed.

1991*****													DQP Direction Qualité Planification									
14-04-93																						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	
A01B	79.4	85.8	10	345	57	125	193597	1549	68.7	51.9	26.1	14.8	6.6	4.8	6.6	4.8	6.6	4.8	6.6	4.8	6.6	
A01C	79.7	88.7	10	118	15	60	76709	1278	64.4	60.4	18.8	14.8	6.6	2.4	6.6	2.4	6.6	2.4	6.6	2.4		
A01B	79.4	85.8	13	345	57	125	193597	1549	68.7	51.9	26.1	14.8	6.6	4.8	6.6	4.8	6.6	4.8	6.6	4.8		
A01C	79.7	88.7	10	118	15	60	76709	1278	64.4	60.4	18.8	14.8	6.6	2.4	6.6	2.4	6.6	2.4	6.6	2.4		
A01D	75.3	90.3	38	362	39	95	101752	1071	70.2	51.6	21.8	9.5	2.9	1.7	10.8	7.0	10.8	7.0	10.8	7.0		
A01F	76.5	84.7	0	100	18	42	37210	886	64.1	55.9	21.5	12.1	4.5	3.1	10.8	7.0	10.8	7.0	10.8	7.0		
A01G	75.2	88.5	33	337	44	132	120406	912	67.0	56.1	19.5	12.5	4.5	3.1	10.8	7.0	10.8	7.0	10.8	7.0		
A01H	69.6	69.5	18	41	18	26	9168	353	34.5	9.5	3.6	1.2	0.0	0.0	9.3	3.3	9.3	3.3	9.3	3.3		
A01J	69.4	86.7	3	91	14	41	34716	847	79.1	58.8	27.5	9.3	3.3	1.6	10.8	7.0	10.8	7.0	10.8	7.0		
A01K	75.2	88.5	43	478	62	165	133037	808	71.6	51.4	28.2	16.9	8.3	5.4	10.8	7.0	10.8	7.0	10.8	7.0		
A01M	74.9	89.6	2	129	15	61	53276	873	68.2	54.7	35.8	23.0	10.6	6.6	10.8	7.0	10.8	7.0	10.8	7.0		
A01N	81.3	91.5	713	442	41	277	156975	567	50.8	30.0	9.1	3.7	1.7	1.0	10.8	7.0	10.8	7.0	10.8	7.0		
A21B	67.2	70.0	2	21	9	14	14420	1030	70.5	52.3	18.2	4.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3		
A21C	58.4	65.8	8	98	51	39	36081	925	66.7	49.1	33.3	15.8	9.7	6.7	10.8	7.0	10.8	7.0	10.8	7.0		
A21D	87.2	92.6	10	50	4	21	7806	372	52.3	30.8	9.2	6.2	3.1	3.1	10.8	7.0	10.8	7.0	10.8	7.0		
A22B	75.0	92.9	13	52	4	17	10625	625	65.8	55.7	34.2	17.7	6.3	2.5	10.8	7.0	10.8	7.0	10.8	7.0		
A22C	76.8	93.1	29	419	31	99	75091	758	68.1	52.6	26.0	13.2	5.6	2.9	10.8	7.0	10.8	7.0	10.8	7.0		
A23B	69.1	67.4	34	95	46	32	19611	613	73.6	56.2	34.3	17.4	9.0	3.9	10.8	7.0	10.8	7.0	10.8	7.0		
A23C	79.6	89.3	58	191	23	46	19778	430	64.7	51.4	24.2	13.2	3.9	1.7	10.8	7.0	10.8	7.0	10.8	7.0		
A23D	60.3	88.8	66	199	25	46	38276	832	44.1	25.2	32.9	21.1	13.0	7.5	10.8	7.0	10.8	7.0	10.8	7.0		
A23F	88.2	89.3	22	133	16	27	13153	487	75.2	65.2	32.9	21.1	13.0	7.5	10.8	7.0	10.8	7.0	10.8	7.0		
A23G	81.3	87.2	65	265	39	71	52210	735	63.5	58.9	32.4	18.4	10.4	6.6	10.8	7.0	10.8	7.0	10.8	7.0		
A23J	70.3	84.3	50	43	8	32	13343	417	43.0	24.4	3.5	2.3	1.2	0.0	10.8	7.0	10.8	7.0	10.8	7.0		
A23K	73.8	86.9	59	93	14	33	31085	942	60.0	57.6	9.7	4.8	3.6	1.6	10.8	7.0	10.8	7.0	10.8	7.0		
A23L	70.6	81.7	243	412	92	170	125090	736	61.0	59.7	16.8	6.6	3.1	1.9	10.8	7.0	10.8	7.0	10.8	7.0		
A23N	64.1	73.0	9	81	30	28	23850	852	75.4	67.7	44.9	32.3	22.8	16.2	10.8	7.0	10.8	7.0	10.8	7.0		
A23P	28.4	60.9	19	28	18	15	11773	785	63.8	63.5	17.4	5.8	4.3	4.3	10.8	7.0	10.8	7.0	10.8	7.0		
A24B	63.9	71.9	27	41	16	21	13803	657	62.2	37.8	22.4	16.3	6.1	6.1	10.8	7.0	10.8	7.0	10.8	7.0		
A24C	70.2	90.9	2	30	3	11	15502	1409	75.0	62.3	17.3	5.8	0.0	0.0	10.8	7.0	10.8	7.0	10.8	7.0		
A24D	67.0	87.1	20	74	11	24	32579	1357	63.9	57.6	17.3	4.5	1.5	1.5	10.8	7.0	10.8	7.0	10.8	7.0		
A24F	45.7	65.1	4	28	15	13	18798	1446	65.8	55.3	30.3	18.4	14.5	1.0	10.8	7.0	10.8	7.0	10.8	7.0		
A41B	58.1	75.5	1	40	13	16	18395	1150	79.0	70.4	45.7	34.6	21.0	14.8	10.8	7.0	10.8	7.0	10.8	7.0		
A41D	68.5	81.8	6	90	20	40	60802	1520	75.5	53.4	39.4	27.3	15.3	8.3	10.8	7.0	10.8	7.0	10.8	7.0		
A41H	62.5	69.2	0	45	20	21	21868	1041	76.7	52.2	42.2	31.1	12.2	7.8	10.8	7.0	10.8	7.0	10.8	7.0		
A42B	71.2	89.9	4	80	9	26	16865	649	67.8	46.3	16.1	8.1	4.0	2.7	10.8	7.0	10.8	7.0	10.8	7.0		
A43B	85.7	93.6	13	293	20	120	107380	895	61.5	50.4	17.6	10.3	7.0	5.5	10.8	7.0	10.8	7.0	10.8	7.0		
A43D	90.9	100.0	1	41	0	17	7874	463	56.4	40.0	18.2	10.9	7.3	5.5	10.8	7.0	10.8	7.0	10.8	7.0		
A44B	82.4	87.7	14	57	8	27	25693	952	69.0	55.0	22.0	14.0	11.0	4.7	10.8	7.0	10.8	7.0	10.8	7.0		
A44C	75.0	93.8	17	181	12	77	87428	1135	71.5	55.6	31.5	17.9	10.0	4.7	10.8	7.0	10.8	7.0	10.8	7.0		
A45B	87.7	85.7	22	60	10	25	63207	1405	66.5	55.0	38.0	26.5	20.0	13.0	10.8	7.0	10.8	7.0	10.8	7.0		
A45C	57.4	65.4	26	102	54	48	30468	1219	79.8	57.3	51.0	31.7	13.5	10.6	10.8	7.0	10.8	7.0	10.8	7.0		
A45D	70.3	82.3	36	256	55	102	94962	1978	69.9	54.1	37.6	24.0	14.8	10.5	10.8	7.0	10.8	7.0	10.8	7.0		
A45F	58.9	72.3	4	47	18	20	122888	1205	61.3	48.3	36.2	24.4	13.4	2.0	10.8	7.0	10.8	7.0	10.8	7.0		
A46B	65.6	80.4	31	160	39	77	26701	1335	68.0	66.0	25.0	13.0	6.0	2.0	10.8	7.0	10.8	7.0	10.8	7.0		
A46D	62.3	61.7	12	37	23	22	64767	842	62.0	51.6	33.6	24.4	12.8	8.4	10.8	7.0	10.8	7.0	10.8	7.0		
A47B	78.6	83.7	8	440	86	162	206478	1275	70.2	53.6	28.8	13.0	6.4	4.2	10.8	7.0	10.8	7.0	10.8	7.0		
A47C	80.6	87.0	9	307	46	172	154344	897	62.0	47.9	25.3	12.9	7.0	5.5	10.8	7.0	10.8	7.0	10.8	7.0		
A47D	69.8	85.7	2	30	5	21	17105	815	73.0	55.4	27.0	17.6	8.1	5.5	10.8	7.0	10.8	7.0	10.8	7.0		
A47F	64.3	67.7	1	132	63	57	83573	1466	71.6	56.0	30.2	15.9	7.9	5.5	10.8	7.0	10.8	7.0	10.8	7.0		
A47G	62.9	75.5	33	237	77	136	142045	1044	70.3	56.3	38.0	23.1	14.4	10.5	10.8	7.0	10.8	7.0	10.8	7.0		
A47H	75.0	67.7	1	21	10	11	12706	1155	76.7	55.8	34.9	23.3	11.6	9.3	10.8	7.0	10.8	7.0	10.8	7.0		
A47J	81.4	91.1	37	411	40	171	189433	1108	67.3	53.4	32.1	17.5	6.9	4.2	10.8	7.0	10.8	7.0	10.8	7.0		
A47K	68.4	83.9	11	141	27	78	58766	753	68.7	50.3	32.8	16.3	6.8	4.8	10.8	7.0	10.8	7.0</td				

A61H	73.4	85.6	12	166	28	73	47537	651	59.2	42.5	23.6	15.1	8.6	5.5	B26F	33.3	48.9	7	44	46	27	23040	853	67.6	50.5	27.0	12.6	8.1	7.2
A61J	61.3	83.9	12	94	38	38	37447	985	73.8	51.2	30.8	18.0	8.7	6.4	B27B	57.3	84.6	32	181	33	49	32437	662	76.0	50.2	29.0	14.5	8.9	2.8
A61K	69.9	90.4	2599	2100	222	1262	117293	929	37.1	18.4	5.2	1.6	0.9	0.7	B27C	46.8	65.6	55	59	31	22	19233	874	78.5	66.9	47.9	35.5	15.7	8.3
A61L	74.3	85.8	140	363	60	167	89471	536	43.6	22.5	5.3	1.9	0.9	0.7	B27D	47.1	52.4	5	11	10	7	10860	1551	62.5	56.3	53.1	37.5	18.8	6.3
A61M	73.8	83.8	63	670	130	344	195558	568	42.9	26.4	9.1	2.4	0.9	0.7	B27F	43.2	68.9	7	51	23	15	10860	1551	62.5	56.3	53.1	37.5	18.8	6.3
A61N	68.6	83.7	17	333	65	113	75254	666	43.7	22.2	7.2	2.3	0.9	0.7	B27G	37.7	67.8	4	59	20	15	10860	1551	62.5	56.3	53.1	37.5	18.8	6.3
A62B	68.1	83.7	24	178	65	69	51015	739	69.7	54.2	35.9	9.2	4.5	2.0	B27K	87.0	97.2	46	69	28	28	14605	522	61.4	33.9	9.4	3.9	18.6	1.5
A62C	81.7	72.5	22	105	39	41	27870	680	75.0	58.3	27.6	17.3	8.3	6.4	B27L	56.5	77.7	9	94	28	25	16724	782	63.7	35.7	38.1	21.2	13.7	8.9
A62D	70.7	77.5	73	62	18	38	17173	452	56.1	23.6	10.2	7.0	8.9	6.9	B27M	56.9	50.0	6	26	11	11	15357	1396	78.5	53.8	35.4	27.4	13.2	1.8
A63B	80.7	86.9	30	279	42	154	66252	430	66.4	51.0	24.7	14.8	8.0	6.9	B27N	50.7	72.7	13	253	76	85	112159	1320	80.3	63.8	36.8	20.9	13.0	9.0
A63C	90.3	91.7	20	418	38	145	112288	774	59.0	30.8	23.1	15.4	11.5	11.5	B27P	56.7	71.2	1	89	36	18	10308	573	61.1	40.0	23.6	12.6	9.2	7.3
A63D	74.3	58.8	19	235	18	65	52790	812	72.8	54.1	30.6	24.5	12.9	8.9	B28B	52.4	66.1	21	82	42	31	19885	641	77.0	55.6	40.0	23.6	12.9	7.3
A63E	86.3	92.9	19	235	18	65	8378	698	77.8	60.0	42.2	26.7	15.6	11.5	B28D	45.8	59.2	46	209	144	75	75645	1009	73.7	54.5	41.4	26.4	11.1	1.1
A63F	73.3	92.3	10	1	12	39	34440	883	72.1	50.6	31.2	21.4	11.7	9.7	B28F	70.9	80.3	738	2770	678	1006	905871	900	64.1	44.3	25.5	8.9	5.0	1.9
A63G	68.9	80.3	9	94	23	39	4738	677	73.9	52.0	34.8	21.4	13.0	13.0	B29B	41.8	63.4	140	211	122	126	152981	1214	69.8	51.0	25.5	8.9	5.6	3.4
B01D	72.1	81.7	258	1500	336	571	716918	1256	55.7	37.2	15.0	7.3	3.3	2.4	B29D	52.0	78.6	2	11	3	5	3835	767	83.3	55.6	52.7	23.7	11.5	8.0
B01F	72.6	77.9	20	465	132	103	59593	579	75.0	59.8	34.3	17.0	8.5	5.8	B29F	59.7	76.2	44	173	54	88	56167	638	75.6	57.0	47.7	23.7	11.5	8.0
B01J	56.8	71.4	205	686	275	305	377433	1063	59.1	38.8	15.4	6.3	2.6	1.5	B30B	75.9	79.4	11	340	88	75	47592	635	87.4	73.2	47.7	23.7	11.5	8.0
B01L	54.8	57.7	22	97	71	54	73525	1362	56.3	37.2	12.2	6.6	1.7	1.3	B31B	38.9	39.1	5	9	14	5	3329	666	71.1	55.3	33.3	23.6	11.5	8.0
B02C	93.8	97.1	33	272	8	92	95364	1037	66.4	59.5	24.2	27.9	14.9	7.7	B31D	54.5	75.9	5	60	19	17	11160	656	75.0	57.0	40.0	23.0	13.0	10.0
B03B	69.9	90.5	24	67	7	24	24195	1008	63.4	48.2	23.2	11.6	7.1	1.8	B31F	32.7	31.2	604	124	274	276	163326	592	54.7	30.6	6.8	2.0	9.9	5.5
B03C	89.2	96.6	33	84	16	0	13849	533	79.3	60.0	39.1	21.2	12.0	7.7	B32B	79.1	88.4	69	527	64	299	203499	681	65.2	47.4	23.6	11.5	7.3	4.9
B03D	95.2	100.0	9	16	0	9	6316	702	61.5	50.8	23.1	11.5	11.5	11.5	B32C	84.8	93.0	161	850	64	263	322901	1228	81.4	62.8	44.2	23.8	11.5	8.0
B04B	81.6	90.5	8	124	13	52	53209	1023	70.5	50.0	26.5	15.1	10.4	4.2	B32D	63.5	41.7	2	5	7	10	9804	980	65.4	38.5	15.5	7.7	1.0	1.0
B04C	73.3	90.9	12	80	8	45	23652	1124	69.1	59.8	45.5	32.1	19.6	9.8	B41B	65.6	86.9	16	106	16	41	30498	744	64.8	37.9	13.1	7.6	4.8	4.8
B05B	68.4	78.9	41	511	137	266	225466	848	65.1	47.4	21.5	11.3	5.5	3.4	B41F	65.2	80.0	11	6	4	8	7081	885	69.6	47.8	23.6	12.2	6.1	4.9
B05C	56.9	62.7	26	126	75	129	86762	894	61.1	38.8	9.18	8.2	3.6	1.8	B42B	55.2	60.0	11	28	30	24	18755	781	70.7	53.7	23.2	12.2	6.1	5.3
B05D	59.5	66.7	64	84	42	53	19583	369	51.2	33.0	14.0	6.5	2.8	1.4	B42C	61.7	48.3	1	28	30	24	113175	1347	63.5	46.1	24.1	12.2	6.1	4.9
B06B	55.3	52.1	34	75	69	51	43612	855	56.9	37.3	14.4	9.7	5.3	5.3	B42D	53.0	69.8	26	139	60	84	39304	1191	80.6	67.6	51.9	33.3	21.7	14.7
B07B	55.3	75.9	18	85	27	30	37996	1267	69.1	57.2	35.5	21.1	19.1	7.9	B42F	73.5	71.9	32	41	16	33	30494	871	65.8	52.9	34.8	18.1	5.8	3.2
B07C	70.9	76.2	13	96	30	41	27617	674	64.5	58.2	20	10.5	9.7	2.1	B43B	88.6	96.7	1	87	35	35	6013	547	74.5	54.9	27.5	13.7	7.8	5.9
B08B	50.2	62.9	7	132	78	45	43154	959	59.1	47.4	22.0	9.7	3.8	2.1	B43F	80.7	100.0	1	15	0	9	5155	573	86.0	74.4	39.5	25.6	20.9	9.3
B09B	47.3	72.9	21	97	36	42	38996	929	31.1	12.1	4.4	2.9	1.9	1.0	B44B	51.5	40.4	10	19	28	12	162241	1353	63.2	44.1	27.9	20.6	11.8	5.9
B21B	77.9	86.5	56	66	32	41	61973	1087	63.0	38.0	9.18	19.9	11.7	6.1	B44C	55.8	70.4	38	76	32	36	28730	798	55.2	33.1	8.7	4.1	4.5	4.5
B21C	58.3	81.4	14	140	32	41	161301	807	66.1	53.0	23.0	10.4	7.4	4.0	B44D	39.2	61.8	10	47	29	20	19383	969	58.0	38.0	19.3	10.4	5.4	0.0
B21D	74.4	85.0	56	130	16	8	11860	741	62.3	50.6	31.2	22.1	11.7	6.5	B44F	41.0	62.3	20	38	23	20	18243	912	59.7	29.9	18.0	10.4	5.4	0.0
B21F	55.6	78.3	47	13	10	8	5326	666	76.7	67.4	53.5	37.2	18.6	16.3	B45B	60.1	75.5	1	71	23	27	41307	1530	67.3	40.9	24.7	17.3	10.0	1.8
B21H	57.6	67.7	17	21	10	8	22521	571	60.6	47.1	21.9	12.3	7.7	5.8	B45F	45.3	40.5	5	15	22	11	17016	1547	74.5	66.0	44.7	21.4	6.4	2.1
B21J	77.6	93.0	9	133	10	39	8640	665	74.0	43.3	35.5	18.6	10.4	4.5	B45G	76.9	80.7	7	314	75	87	160196	1841	49.8	36.5	16.5	8.1	3.7	1.1
B21K	52.5	67.2	10	39	19	13	40929	1106	69.4	41.5	17.7	6.8	2.0	1.4	B45H	51.3	73.6	15	237	85	84	134080	1596	55.4	35.1	22.7	11.7	6.1	3.0
B22C	66.7	81.0	28	82	19	37	150408	1166	63.5	41.1	15.4	5.8	2.3	1.2	B46B	61.0	75.5	1	71	23	27	41307	1530	67.3	40.9	24.7	17.3	10.0	1.8
B22F	55.8	64.4	51	88	38	129	43869	860	56.5	36.4	15.3	5.3	1.4	1.2	B46F	76.9	80.7	7	314	75	87	160196	1841	49.8	36.5	16.5	8.1	3.7	1.1
B23B	65.1	71.5	12	158	64	82	20558	685	69.4	46.9	21.4	8.2	4.0	4.8	B46G	51.3	73.6	15	237	85	84	134080	1596	55.4	35.1	22.7	11.7	6.1	3.0
B23C	83.1	78.2	10	43	12	30	67832	998	73.8	55.1	27.1	17.4	10.5	5.8	B46H	78.6	89.3	9	433	52	170	183103	1077	50.1	28.0	12.7	7.1	3.5	0.0
B23D	51.8	66.9	36	198	98	68	67832	808	80.0	67.3	51.9	23.1	11.5	7.7	B46K	60.1	75.6	27	365	115	143	204553	1430	43.7	25.9	11.6	6.3	3.2	3.0
B23F	70.4	82.4	11	28	6	10	8815	882	80.0	65.9	44.2	23.2	9.4	7.2	B46L	65.6	84.0	0	21	4	9	43656	1171	72.2	50.0	24.5	12.2	6.3	0.0
B23G	94.3	88.0	11	22	3	13	3861	297	73.0	62.2	40.5	24.3	9.3	0.0	B46M	64.2	88.1	124	540	73	153	164021	1072	57.3	32.9	22.2			

B62D	71.3	85.0	24	576	102	172	253100	1672	64.4	45.9	20	2	11.2	4.6	3.1	2
B62H	63.6	71.8	6	28	11	15	10746	716	71.4	50.0	35.7	32.1	10.7	4.6	3.1	2
B62J	86.3	90.9	1	70	7	26	29450	1133	67.3	51.0	33.7	26.9	15.4	7.4	5.0	2
B62L	65.1	87.2	23	175	31	61	59395	973	52.9	38.9	24.0	16.7	12.2	8.6	5.2	1
B62M	79.8	85.0	23	141	19	53	19875	1325	52.0	42.0	26.0	20.0	14.0	7.0	4.0	1
B63B	74.9	84.9	24	405	76	132	46302	874	67.7	50.5	22.1	9.8	5.9	3.2	1.5	1
B63C	70.8	85.4	24	45	13	26	92891	720	69.8	51.8	24.3	11.1	7.7	5.3	3.7	1
B63G	48.1	60.9	52	14	9	7	5045	721	66.7	51.9	25.9	13.8	9.4	6.3	4.3	1
B63H	75.4	85.5	12	118	20	47	32465	691	71.3	50.8	28.7	20.0	13.3	10.3	7.0	1
B64B	66.7	72.7	8	3	5	5	8147	1629	86.7	80.0	26.7	19.9	12.0	8.0	5.0	1
B64C	66.5	79.3	46	184	48	104	99910	961	70.2	51.0	33.7	18.9	9.9	6.3	4.3	1
B64D	52.9	61.5	39	131	82	70	64141	916	62.1	48.6	24.3	12.5	7.2	4.3	2.3	1
B64F	55.7	90.4	0	75	8	20	14575	729	69.4	51.8	23.5	18.2	12.5	8.0	5.0	1
B64G	51.6	68.8	25	95	43	46	57310	1246	67.5	50.0	23.5	18.0	12.0	7.0	4.0	1
B65B	74.8	78.6	25	544	148	289	239066	827	71.7	54.9	28.3	10.7	5.5	3.0	1.5	1
B65C	76.5	82.3	1	65	14	33	20279	615	56.3	38.3	15.6	5.5	2.2	1.2	0.5	1
B65D	85.3	89.7	101	1574	180	658	770963	1172	68.5	53.8	29.6	13.1	5.5	2.1	1.0	1
B65F	81.2	82.1	6	69	15	36	30050	835	56.5	43.5	17.6	11.5	3.1	1.2	0.5	1
B65G	71.3	85.0	118	591	104	223	216509	971	65.9	52.2	47.7	22.8	10.5	5.6	3.0	1
B65H	72.1	83.0	57	724	148	371	364997	984	65.2	47.7	19.9	10.5	5.6	3.0	1.5	1
B66B	66.3	82.8	4	202	42	58	54154	934	65.7	48.0	16.2	9.5	4.1	2.3	1.2	1
B66C	50.0	67.5	37	195	94	61	67835	1112	7.2	58.8	27.5	9.3	4.7	2.7	1.2	1
B66D	54.1	78.6	9	77	21	15	13670	911	85.3	74.3	55.0	29.4	17.4	9.7	5.7	1
B66F	60.7	73.9	10	170	60	48	55288	1152	73.0	56.4	16.3	6.0	4.0	2.0	1.0	1
B67B	70.6	81.8	4	27	6	16	10076	630	82.0	64.0	28.0	18.0	6.0	4.0	2.0	1
B67D	80.0	81.3	39	9	24	33816	1409	67.1	48.8	28.0	11.0	2.1	1.0	0.5	1	
B68C	69.6	76.0	16	114	36	69	52192	756	61.4	39.9	18.5	10.0	3.0	1.0	0.5	1
B68G	90.0	85.7	1	6	1	5	49990	713	78.6	71.4	35.7	17.0	5.0	2.0	1.0	1
C01B	73.2	84.9	148	426	76	214	105967	495	54.9	34.9	14.3	6.4	2.7	1.8	0.8	1
C01C	66.7	61.5	11	16	10	9	3289	365	77.4	48.4	23.1	7.7	7.7	2.0	1.0	1
C01D	76.2	66.7	1	8	4	7	3137	448	46.2	23.1	7.7	7.7	7.7	2.0	1.0	1
C01F	56.5	57.9	27	33	24	25	10437	417	67.0	53.8	25.3	14.3	8.8	2.8	1.0	1
C01G	55.3	62.9	33	73	43	55	34157	621	47.6	32.7	14.3	5.4	1.2	0.8	0.5	1
C02F	73.0	86.1	163	410	66	207	198829	941	52.8	32.9	9.6	4.5	1.8	1.4	0.8	1
C03B	85.4	90.3	52	373	40	108	83808	776	59.8	39.3	20.3	10.3	6.9	4.7	2.7	1
C03C	70.1	81.5	235	203	46	131	68840	525	50.7	29.5	12.7	4.1	2.0	1.3	0.5	1
C04B	66.2	83.0	69	673	138	369	218277	592	54.1	37.1	14.3	6.2	3.0	2.3	1.0	1
C05D	43.1	56.7	17	13	9	9	6659	518	79.1	58.1	30.2	14.0	6.3	4.7	2.0	1
C05F	62.7	64.7	18	88	48	45	45414	1009	56.9	36.3	15.0	10.0	6.3	4.7	2.0	1
C05G	48.1	40.0	6	9	7	47	4272	610	68.2	54.5	22.7	13.6	9.1	6.4	3.0	1
C06B	77.1	79.3	15	111	29	34	30353	893	74.6	53.6	19.3	13.7	9.4	6.7	3.0	1
C06D	32.1	53.2	25	22	12	12	11079	923	75.4	52.2	21.7	11.6	5.8	4.7	2.0	1
C07B	46.7	83.5	5	1	9	13195	1466	55.6	39.1	12.7	4.1	2.0	1.3	0.5	1	
C07C	84.7	85.2	1608	1038	180	870	513623	590	53.0	25.5	12.1	13.0	7.0	5.0	2.0	1
C07D	93.4	95.5	1863	2251	106	1331	667140	501	46.8	27.7	9.3	2.6	1.3	0.6	0.3	1
C07F	84.9	86.4	315	352	64	234	115952	496	51.5	36.6	13.7	3.4	1.3	0.6	0.3	1
C07H	74.3	88.3	633	406	54	255	106551	418	59.7	20.9	6.8	1.7	1.1	0.6	0.3	1
C07J	96.7	97.2	17	70	2	24	13488	562	52.2	21.7	11.6	5.8	3.1	2.0	1.0	1
C07K	65.0	67.7	737	524	250	464	175245	378	19.4	6.4	1.0	1.1	0.5	0.2	0.1	1
C08B	54.9	78.7	84	85	23	54	31852	590	53.0	25.5	11.0	4.0	2.5	2.0	1.0	1
C08C	49.2	63.6	17	14	8	18	6634	369	58.1	41.9	14.0	7.0	2.4	1.1	0.5	1
C08F	82.5	85.1	803	1536	268	909	820034	902	55.6	32.9	10.7	2.4	1.6	1.0	0.5	1
C08G	66.9	85.3	681	1749	302	789	654137	829	50.5	31.3	11.1	2.1	0.8	0.5	0.2	1
C08H	25.0	12.5	12	1	7	6	2473	412	47.1	41.2	17.6	7.0	0.8	0.5	0.2	1
C08J	62.7	68.2	512	530	247	370	196543	531	57.7	36.6	11.9	3.3	1.1	0.4	0.2	1
C08K	66.6	65.6	340	414	217	344	262907	764	52.1	30.4	11.6	4.3	1.5	0.4	0.2	1
C08L	76.6	81.2	634	961	223	565	380359	673	45.4	27.0	7.6	1.5	0.5	0.2	0.1	1
C09B	81.2	83.3	122	521	105	224	189016	844	66.2	43.9	16.3	7.4	3.1	2.6	1.0	1
C09C	63.1	85.2	120	69	12	32	36287	1134	64.1	43.7	25.2	9.7	4.9	2.1	1.0	1
C09D	68.2	74.6	207	318	108	250	179419	718	56.5	29.8	7.4	1.9	0.6	0.3	0.1	1
C09E	66.7	69.0	5	20	9	9	4717	524	55.9	41.2	14.7	5.9	0.8	0.5	0.2	1
C09F	69.5	72.9	107	196	73	123	72668	591	57.3	37.8	11.9	3.4	1.0	0.5	0.2	1

E01B 79.5 86.3 5 101 16 69 61270 888 75.0 59.0 32.5 18.4 11.3

E01C	74.6	85.2	20	150	26	80	52124	652	58.6	39.9	9.6	6.8	6.65	5.8	5.1	F16N	64.8	84.2	6	64	12	12	16	19930	1107	85.2	70.4	33.3	19.8	8.6	6.0	nom	
E01D	79.5	88.5	5	46	6	30	16292	543	64.6	50.4	13.9	4.5	42.1	51.5	42.1	F16P	62.1	51.5	6	60	12	106	16	11309	870	72.3	51.1	14.9	6.4	3.7	14.5	3	
E01F	71.2	78.9	10	120	32	63	47634	756	64.0	46.4	13.9	4.5	49.5	66.3	50.0	F16T	50.0	100.0	5	51	12	106	14	1545	309	71.4	55.7	35.0	6.7	3.3	14.5	3	
E01H	52.3	81.3	4	3	100	22	55774	1033	73.2	54.9	10.1	4.1	49.5	66.3	49.5	F17C	49.5	66.3	5	51	12	106	14	76527	15622	71.4	55.7	35.0	6.7	3.3	14.5	3	
E02B	70.2	82.0	20	207	82	111	170515	1536	67.9	49.7	19.6	10.1	47.2	61.5	47.2	F17D	80.0	100.0	3	51	12	9	12	6550	819	70.0	46.7	35.0	6.7	3.3	14.5	3	
E02F	54.9	71.6	21	245	33	80	125883	1574	65.4	49.8	24.6	10.1	15.7	62.2	10.9	F21K	60.6	61.5	3	51	9	8	18	1511	302	83.3	75.0	40.0	6.0	20.0	13.8	10	
E03B	85.9	88.1	11	31	17	15	15002	1000	69.6	50.7	23.6	15.7	8.2	10.5	2.2	F21L	45.7	70.6	18	101	20	45	46	116410	2117	49.7	36.7	23.1	18.5	9.2	7.4	3	
E03C	61.9	73.6	6	64	23	32	30670	958	69.6	53.7	23.6	15.8	8.2	9.5	2.2	F21M	39.8	64.9	11	37	22	45	47	28567	1904	64.4	44.4	30.4	18.1	9.2	7.4	3	
E03D	68.7	71.9	1	6	82	50	47937	959	67.5	54.9	17.7	12.7	9.5	7.5	2.2	F21P	44.7	84.6	4	24	24	45	48	377564	1987	68.4	44.4	30.4	18.1	9.2	7.4	3	
E03F	40.3	62.8	15	340	83	153	165603	1082	71.6	52.9	27.3	14.1	9.2	7.1	2.2	F21S	49.6	68.6	25	162	31	51	50	142241	1778	67.6	44.4	32.2	18.1	9.2	7.4	3	
E04C	52.0	78.8	7	141	38	78	102378	1313	72.9	56.2	23.6	14.1	9.2	7.1	2.2	F22B	61.1	74.4	7	71	44	51	57	104182	1555	65.7	51.3	25.5	16.6	7.0	3.9	11	
E04F	63.9	88.3	22	226	30	82	128123	1562	64.5	44.5	24.5	10.9	11.7	9.3	2.2	F23D	68.0	78.6	24	162	44	52	57	104842	1218	63.3	58.8	41.0	22.2	11.1	8.2	2	
E04G	64.8	75.5	16	193	53	120	155755	1298	68.8	52.7	24.5	10.9	11.7	9.3	2.2	F23G	53.0	66.2	32	102	48	52	57	16498	1300	58.8	58.8	32.1	19.0	11.1	8.2	2	
E04H	75.7	85.0	7	153	27	104	62504	601	69.2	52.1	24.5	10.9	11.7	9.3	2.2	F23H	71.9	77.8	12	13	39	16	22	23275	1455	48.8	48.8	32.1	19.0	11.1	8.2	2	
E05B	65.9	72.9	21	258	96	144	115600	803	58.0	40.0	22.0	13.8	9.6	7.7	2.2	F23J	43.9	25.0	12	10	10	40	40	18199	1517	62.0	42.0	22.2	12.0	6.0	3.7	11	
E05D	72.2	77.9	8	74	21	56	30560	546	65.2	47.0	22.4	13.8	9.6	7.7	2.2	F23L	35.4	64.3	12	16	10	20	20	104182	1555	65.7	51.3	25.5	16.6	7.0	3.9	11	
E05F	75.7	84.3	11	161	30	81	83793	1034	66.0	44.8	23.7	13.7	8.4	7.6	2.2	F23N	76.7	83.8	13	114	22	40	40	47310	1093	70.7	44.4	30.4	18.1	9.2	7.4	3	
E05G	65.8	78.5	13	113	31	65	73713	1134	63.5	44.2	23.7	13.7	8.4	7.6	2.2	F23O	83.2	94.4	14	117	11	41	41	30446	743	75.7	59.5	27.2	13.0	6.2	3.7	12	
E06B	43.9	71.4	1	43	25	10	11	5697	518	75.0	45.9	19.7	9.6	13.6	7.6	2.2	F24B	93.3	91.4	16	165	20	55	55	13852	1066	78.0	49.4	32.2	18.8	9.4	7.2	12
E06C	77.6	79.1	1	53	14	15	17015	1134	73.6	44.0	21.7	9.6	13.6	7.6	2.2	F24C	68.7	89.2	17	219	36	39	39	27531	706	69.8	45.5	23.6	10.7	6.2	3.7	12	
E21B	78.7	87.3	40	931	136	282	275457	977	64.3	44.9	21.7	9.6	13.6	7.6	2.2	F24F	79.8	83.6	25	219	43	51	51	187964	2136	70.4	50.6	28.1	16.6	7.2	3.7	12	
E21C	60.7	81.3	1	39	9	23	24791	1078	68.2	46.2	25.8	16.9	6.2	6.6	2.2	F24H	77.3	85.2	11	52	49	51	51	45354	889	78.4	60.0	31.0	12.0	6.0	3.7	12	
E21D	76.1	84.4	1	29	12	15	12930	862	85.7	63.3	24.5	16.8	10.2	4.1	2.2	F24J	59.8	60.3	12	38	25	56	56	23252	1224	76.9	35.1	31.0	12.0	6.0	3.7	12	
F01C	52.7	70.7	5	29	12	15	27024	795	78.8	48.0	27.5	14.4	10.6	9.2	2.2	F25B	66.3	78.5	35	351	41	54	54	156446	1505	69.5	48.3	31.0	12.0	6.0	3.7	12	
F01D	46.6	69.8	20	60	26	34	76039	895	70.8	48.0	27.5	14.4	10.6	9.2	2.2	F25C	41.3	61.3	11	65	25	53	53	18832	1046	69.0	53.4	25.9	12.0	6.0	3.7	12	
F01E	80.4	86.5	25	257	40	85	8448	528	66.7	33.3	12.1	6.1	7.4	3.0	2.2	F25D	63.1	82.4	25	165	36	39	39	88607	1384	78.0	64.4	46.2	29.9	12.0	6.0	3.7	
F01F	66.5	91.3	1	42	4	16	104216	974	65.3	49.9	32.3	15.1	21.5	5.8	2.2	F25J	66.7	91.1	24	82	34	48	48	60448	1778	42.6	33.0	19.0	12.0	6.0	3.7	12	
F01G	57.0	72.0	1	77	30	29	29413	1014	65.3	49.9	32.3	15.1	21.5	5.8	2.2	F26B	79.1	78.5	112	230	63	81	81	79908	986	78.0	61.7	33.5	19.0	12.0	6.0	3.7	
F01H	59.8	88.1	56	379	46	96	149238	1555	55.5	35.4	11.5	5.0	15.7	10.2	2.2	F27B	44.8	51.8	13	71	66	38	38	47767	1257	67.7	46.7	24.7	13.0	6.0	3.7	12	
F02A	61.8	81.4	14	127	29	43	28115	656	81.4	51.6	29.3	13.8	17.7	12.2	2.2	F27D	49.2	68.5	11	102	47	51	51	34867	969	65.8	42.2	28.6	13.0	6.0	3.7	12	
F02B	73.7	79.0	111	364	97	129	133856	1076	66.9	52.9	36.6	22.8	11.8	6.6	2.2	F28C	77.6	90.0	11	9	47	51	51	23252	1224	76.9	35.1	31.0	12.0	6.0	3.7	12	
F02F	55.1	59.4	6	29	21	35	24594	703	83.9	72.3	32.3	12.3	6.1	4.1	2.2	F28D	71.2	80.6	6	124	47	51	51	54092	1127	65.9	49.8	32.2	18.0	6.0	3.7	12	
F02G	55.3	72.5	3	107	21	35	535354	752	53.0	31.1	13.6	6.8	3.0	1.9	2.2	F28F	68.1	74.7	16	124	47	51	51	72257	1165	65.9	49.8	32.2	18.0	6.0	3.7	12	
F02H	64.1	83.6	3	107	21	8	7594	969	76.7	43.5	21.1	21.1	15.8	13.2	2.2	F28G	70.4	45.5	1	10	211	67	67	33151	642	78.4	60.6	37.8	24.7	16.8	8.2	2	
F02M	76.6	88.6	63	536	69	163	160242	983	59.7	37.5	21.2	9.9	6.2	4.1	2.2	F41B	60.0	79.7	3	123	65	17	17	12889	537	56	34.6	23.9	17.0	12.0	6.0		
F02P	77.5	82.7	22	177	37	47	353354	752	53.0	31.1	13.6	6.8	3.0	1.9	2.2	F41F	46.8	75.4	6	43	17	31	35	10351	609	79.0	63.0	34.6	23.9	17.0	12.0	6.0	
F03B	96.6	100.0	46	0	17	8551	503	69.8	44.7	27.9	20.9	14.0	10.2	0.0	2.2	F41G	54.4	80.0	6	15	1	17	17	14354	652	68.0	51.5	26.5	16.8	10.0	3.0	1	
F03D	90.3	100.0	33	0	11	6074	552	78.9	44.7	21.1	21.1	15.8	13.2	0.0	2.2	F42B	69.5	85.8	18	394	17	41	41	7218	388	68.4	42.1	25.9	12.0	6.0	3.7	12	
F03G	46.9	72.4	3	21	8	8	3446	492	62.1	62.1	44.6	0.0	0.0	0.0																			

G01V	73.6	81.6	17	319	72	108	733365	679	60.2	36.3	12.9	5.9	2.6	1.1	H02M	82.0	86.5	12	256	40	128	115970	906	48.4	22.0	6.7	2.3	1.2
G02B	71.0	83.4	301	1462	291	572	675701	1181	42.7	19.1	4.7	2.2	1.4	.9	H02N	46.4	63.0	3	17	10	9	2983	331	36.4	36.4	4.5	.0	.0
G02C	85.1	96.7	38	357	12	67	40911	611	62.9	44.2	22.1	15.3	7.0	.8	H02P	76.5	78.1	9	143	40	52	62442	1201	42.7	15.1	4.2	1.6	1.6
G02F	73.5	87.4	179	567	82	265	156347	590	30.4	14.3	2.4	5.5	5.5	.4	H03B	63.7	76.6	34	72	22	35	29782	708	53.4	24.7	4.8	.7	.0
G03B	82.6	88.2	109	450	60	170	266199	1566	64.0	38.9	15.7	8.3	4.5	3.1	H03C	53.7	75.0	21	27	9	14	7992	571	57.8	26.6	9.4	4.7	1.6
G03C	87.2	92.7	82	846	67	336	364183	1084	45.0	31.5	12.5	6.8	3.2	1.2	H03D	63.0	65.0	31	80	43	56	31407	561	45.9	21.6	3.2	.0	.0
G03D	65.9	88.8	6	71	9	25	26417	1057	78.2	56.4	21.8	11.5	7.7	3.4	H03F	90.6	93.7	18	266	18	112	81143	724	55.7	27.2	6.4	1.1	.0
G03F	77.3	89.2	237	1011	122	430	438162	1019	46.5	23.6	4.8	2.9	.6	.3	H03G	74.5	81.2	73	190	64	91	92685	1019	56.3	24.4	4.8	.8	.3
G03G	84.4	93.6	261	1725	117	516	683903	1325	38.8	17.5	2.9	3.1	3.1	.1	H03H	74.7	79.5	67	202	52	124	91422	737	49.9	26.5	5.0	1.9	.0
G03H	69.9	94.4	35	50	22	23	19690	856	58.0	37.4	6.9	3.1	3.1	.2	H03J	60.2	61.8	11	34	21	23	17429	758	46.3	26.8	1.2	.0	.0
G04B	86.0	89.4	5	245	29	64	78164	1221	68.7	56.6	39.0	28.1	16.1	10.0	H03K	82.5	84.4	56	756	99	285	259887	912	42.2	17.0	3.7	.3	.0
G04C	62.2	80.0	8	56	22	27	33093	1226	72.6	43.2	14.7	9.5	5.3	1.1	H03L	62.7	75.7	49	137	44	84	74439	886	47.5	18.1	2.3	.7	.3
G04F	79.2	80.0	1	8	2	6	8303	1386	53.3	40.0	6.7	6.7	.8	.0	H03M	57.2	60.8	85	177	114	151	241553	1600	42.8	21.5	3.5	.2	.0
G04G	64.7	75.0	15	75	25	35	29691	848	67.9	29.9	1.9	.7	.0	.0	H04B	57.8	69.9	56	635	274	298	325778	1093	43.7	16.1	2.8	1.2	.8
G05B	71.8	86.2	23	568	91	228	201434	883	40.9	15.2	3.6	.5	.5	.4	H04H	26.3	52.1	3	62	57	32	57910	1810	38.8	15.7	1.0	.0	.0
G05F	55.9	60.3	17	261	172	123	152192	1237	62.1	31.2	13.1	4.0	1.5	.4	H04J	61.7	73.6	33	203	73	92	75800	826	33.3	16.0	2.8	1.1	1.1
G05G	64.5	78.5	27	124	34	46	48595	1056	51.3	25.1	2.1	.0	.0	.0	H04L	77.1	85.0	103	931	164	415	367793	886	35.3	11.9	1.2	.1	.1
G06E	52.6	42.0	3	21	29	17	24575	1446	69.4	51.4	36.1	20.8	11.1	4.2	H04M	69.5	77.7	88	524	150	200	295915	1486	43.5	17.0	2.4	1.3	.8
G06F	86.5	92.1	528	3061	263	1465	1272949	869	40.3	13.0	1.9	.4	.3	.3	H04N	86.1	89.4	485	2330	277	836	1063041	1272	37.7	12.4	2.0	.9	.4
G06K	50.4	54.1	3	20	17	18	11598	633	41.3	32.1	9.4	.7	.3	.2	H04R	80.9	86.3	30	398	63	134	214092	1598	59.6	36.3	12.8	8.3	2.0
G06K	71.5	78.1	130	620	174	280	283308	1812	40.8	16.3	1.6	.7	.3	.2	H04S	65.3	82.3	2	51	11	19	27162	1430	57.5	31.5	1.4	.0	.0
G07B	52.6	73.2	14	267	98	71	86200	1214	47.6	20.8	5.3	2.2	.9	.7	H05B	80.7	90.0	47	708	79	207	265890	1284	57.9	32.8	12.4	5.6	3.1
G07C	40.8	63.8	3	155	88	50	67121	1342	49.1	18.4	3.0	1.1	.4	.0	H05G	67.1	77.5	0	131	38	32	64546	2017	44.4	20.7	6.1	3.0	1.2
G07D	54.3	73.2	10	41	15	19	22839	1202	55.6	31.9	12.5	6.9	2.8	.0	H05H	61.1	67.4	25	91	44	47	43259	920	46.2	30.4	8.7	2.2	.5
G07F	67.9	83.6	17	535	105	158	174973	1107	45.6	20.2	5.1	2.3	1.4	1.0	H05K	63.9	76.5	57	496	152	244	247762	1015	45.7	25.5	6.8	2.6	.6
G07G	50.5	71.0	1	22	9	8	11013	1377	27.3	4.5	.0	.0	.0	.0														
G08B	77.5	82.8	19	212	44	97	79693	793	54.5	29.7	3.8	.6	.6	.0														
G08C	55.8	61.4	5	43	27	27	27590	1022	59.6	22.8	3.3	.8	.5	.0														
G08G	50.8	69.9	11	86	37	49	36317	741	52.5	29.0	4.4	4.4	1.6	.5														
G09B	71.5	78.4	6	116	32	37	32920	890	60.8	35.9	11.1	3.3	2.2	.2														
G09F	65.9	71.2	31	315	73	161	229506	1426	56.6	38.1	15.4	6.6	9.0	.0														
G09G	55.8	75.2	28	176	58	106	72078	680	28.9	9.8	3.6	6.6	2.3	1.4														
G10D	98.7	100.0	5	52	0	20	14522	726	68.6	47.1	33.6	5.5	2.5	2.3	1.1													
G10H	94.5	97.7	1	43	1	22	12660	575	56.5	33.9	6.5	2.2	6.1	2.3														
G10K	59.0	83.6	17	158	31	60	45670	711	59.6	36.2	12.2	2.8	.9	.2														
G10L	79.7	82.0	136	73	16	48	20821	434	31.7	12.9	2.8	.9	.0	.0														
G11B	91.7	93.3	468	2772	199	827	1617145	1955	36.1	14.4	3.4	.9	.2	.0														
G11C	82.9	85.1	80	468	82	220	207917	945	38.1	12.7	.0	.1	.0	.0														
G21B	74.1	76.2	2	16	5	11	6346	577	50.0	27.8	.0	.0	.0	.0														
G21C	83.7	87.8	22	289	40	104	74148	713	53.6	35.3	11.8	1.7	.0	.0														
G21D	66.7	86.4	3	19	3	7	3934	562	69.2	35.3	11.6	1.3	.3	.0														
G21F	75.9	88.7	43	157	20	62	39752	641	61.2	35.3	11.3	1.3	.4	.0														
G21K	51.9	80.7	11	46	11	19	21145	1113	50.0	22.9	4.3	2.9	2.5	.1														
H01B	68.8	81.0	100	226	53	125	139379	1115	60.1	38.1	15.3	6.5	5.6	5.6														
H01C	77.4	81.1	21	99	23	39	32376	830	64.1	45.1	12.7	12.7	1.7	1.7														
H01F	84.3	87.8	32	423	59	155	169917	1096	59.4	38.1	12.7	1.7	.9	.9														
H01G	72.7	86.7	64	170	26	80	72264	903	55.1	36.7	19.5	2.5	11.0	11.0														
H01H	86.8	91.9	43	995	88	305	294755	966	70.4	49.9	25.9	1.0	6.0	3.0														
H01J	86.6	90.2	367	1374	149	556	548715	987	54.6	34.8	13.0	.0	.0	.0														
H01K	71.5	92.5	21	136	11	41	46694	1139	62.8	49.4	14.5	2.3	5.6	3.5														
H01L	89.4	92.7	547	3201	252	11933	952860	799	31.8	11.3	1.8	1.8	.2	.1														
H01M	84.3	94.7	110	767	43	191	279408	1463	50.2	31.8	12.1	2.3	5.7	1.7														
H01P	76.4	87.7	15	415	58	97	112245	1157	69.2	51.9	25.3	13.4	5.7	5.7														
H01Q	84.6	88.2	19	368	49	140	118262	845	55.5	34.8	14.9	2.3	5.6	3.5														
H01R	82.0	86.4	39	1089	172	403	595588	1478	56.6	36.6	13.4	2.3	5.6	3.5														
H01S	85.8	92.4	189	706	58	228	184681	811	28.6	12.6	2.1	1.9	2.2	1.2														
H01T	72.1	83.7	20	72	14	36	50823	1412	63.5	48.1	27	19.2	12.5	12.5														
H02B	68.6	69.5	29	98	43	66	52921	802	63.8	45.7	18.6																	

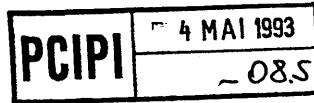


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Sir,

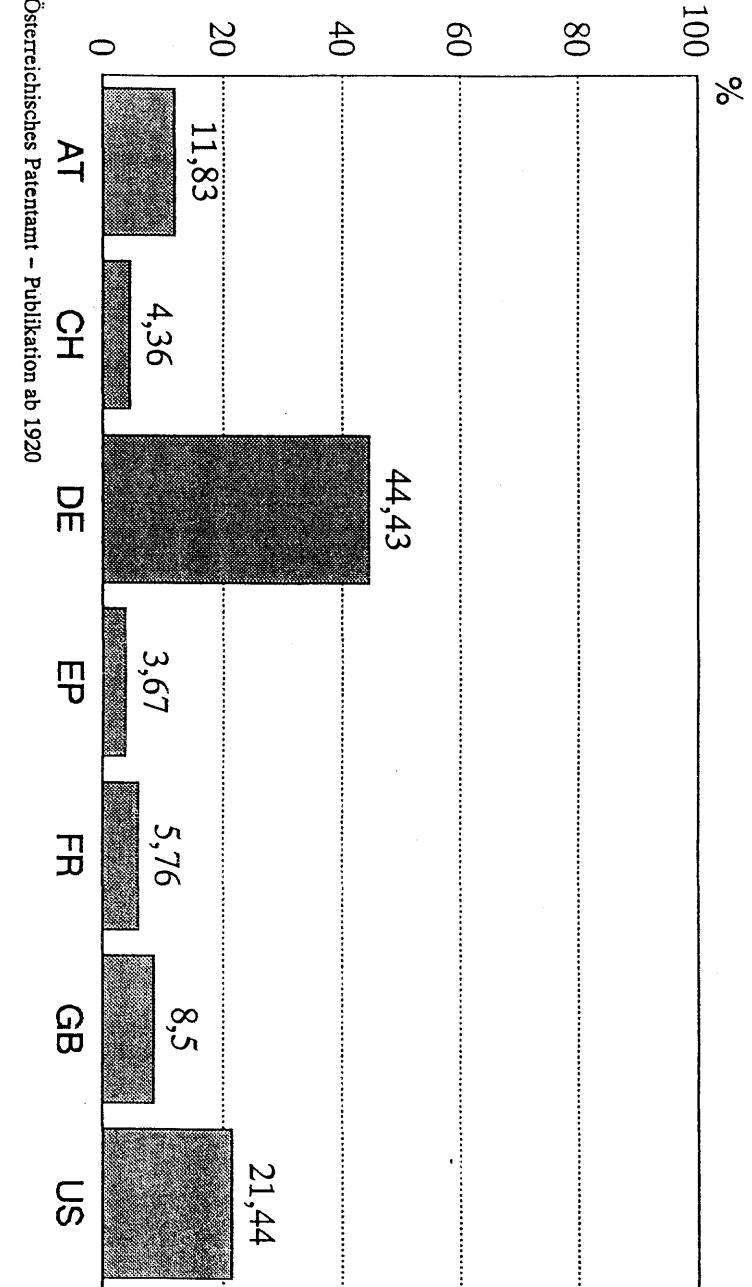
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These charts are based on analyses of austrian search reports carried out between 1983 and 1992 and show in an impressive way the frequency of patent documents published within the periods from 1920 onward (annex 1) and splitted up between 1920 and 1949 respectively from 1950 up to now (annex 2).

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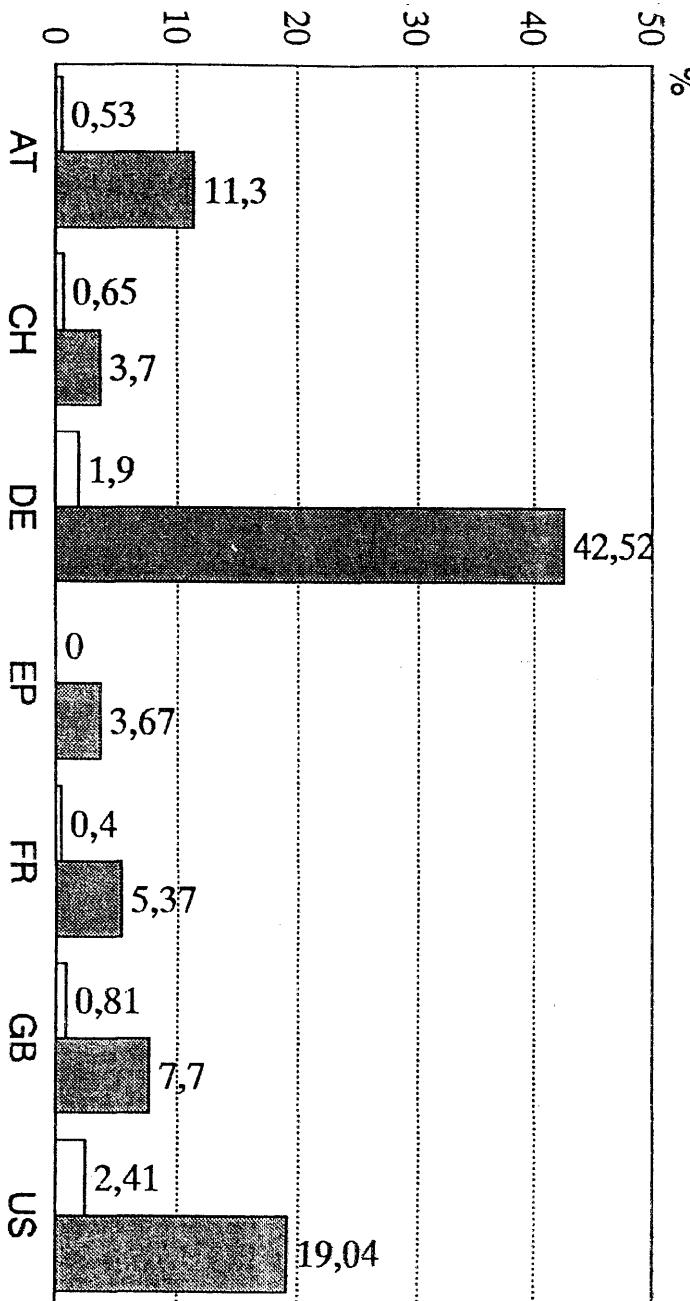
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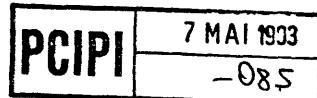
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Soviet Union	1978 ( " ) "

FREQUENCY OF CITED DOCUMENTS  
PUBLISHED BETWEEN 1920 AND 1949  
PUBLISHED FROM 1950 ONWARD



May 6, 1993

Mr. F. Curchod  
Deputy Director General  
WIPO  
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Dear Mr. Curchod,

In response to your Circular PCT 488 I have the honor to submit the following comments from the Swedish Patent Office.

We do not have any statistical information of incidence and relevance of citations in patent application search reports or the like during examinations.

A well-known fact is that the novelty claim in PCT as in almost all national patent acts is absolute. From this follows that references to patent documents published 1920 and earlier can be used and are used in the patent process.

Another well-known fact is that when the PCT was agreed upon in 1970 the reason for choosing 1920 as cut-off date was not because it was 50 years back in time, but because some prospective Searching Authorities did not possess in their search files US documents older than from 1920. The cut-off date of 1920 was elaborated by the Working group PCT/TCO/SS before 1970.

We have made a study of the search files and their influence on the shelf space. We studied the search files from the time period of 1920-1940 and compared the shelf space for this documentation with the shelf space needed for the documentation for the whole period of 1920-1992. We found that the documentation from 1920-1940 only needed 0.12% of the total amount of shelf meters.

[End of Annex 13 and of document/  
Fin de l'annexe 13 et du document]

This result means that we do not gain any substantial space if we cut off the minimum documentation 1940. Furthermore, sorting out documents of the early 20-years period will certainly lead to losses in the search quality and seems therefore too risky with regard to the poor 0.12% gain of space as mentioned above.

Additionally, there still exist technical areas for which the oldest material in the search files is very relevant e.g. several mechanical areas - armatures, piping, music instruments, sailing techniques etc.

Finally, we think there is another reason why it is too risky to cut off at a later date, namely that one can never know beforehand which parts of the oldest search file will become active and relevant for search again. "Sleeping" technical areas has waked up before, as everyone knows.

To summarize: In our view no change of the cut-off date should be made.

Yours sincerely,

*Kerstin Bergström*  
Kerstin bergström  
Head, Documentation Division