

WIPO



PCT/CTC/XV/4

ORIGINAL : English

DATE : June 11, 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

REPORT

adopted by the Committee

INTRODUCTION

1. The PCT Committee for Technical Cooperation (hereinafter referred to as "the Committee") held its fifteenth session in Geneva from June 3 to 11, 1993.
2. The following members of the Committee were represented: Australia, Austria, Brazil, Bulgaria, Burkina Faso, Canada, Democratic People's Republic of Korea, Denmark, Finland, France, Germany, Hungary, Ireland, Japan, Netherlands, Norway, Poland, Portugal, Republic of Korea, Romania, Russian Federation, Spain, Sweden, Switzerland, United Kingdom, United States of America and the European Patent Office (27). The Commission of the European Communities, the Patent Documentation Group and the publishers of the journal "World Patent Information" were represented by observers. The list of participants appears in Annex I to this report.
3. The session was opened by Mr. François Curchod, Deputy Director General, who welcomed the participants on behalf of the Director General of WIPO.

OFFICERS

4. The session was presided over by the Chairman of the Executive Coordination Committee of the WIPO Permanent Committee on Industrial Property Information, Mr. Siep de Vries (Netherlands). Mr. Klaus-Peter Wittig (WIPO) acted as Secretary of the session.

ADOPTION OF THE AGENDA

5. The Committee unanimously adopted the agenda which is attached as Annex II to this report.

CONCLUSIONS

6. As decided by the Governing Bodies of WIPO at their tenth series of meetings (see document AB/X/32, paragraphs 51 and 52), held from September 24 to October 2, 1979, the report of this session reflects only the conclusions (decisions, recommendations, opinions, etc.) of the Committee and does not, in particular, reflect the statements made by any participants, except where any reservation in respect of any specific conclusion of the Committee was made or repeated after the conclusion was arrived at.

PCT MINIMUM DOCUMENTATION--REVISION OF THE LIST OF PERIODICALS

7. The Committee considered a new draft list of PCT periodicals established under Rule 34.1(b)(iii) which had been prepared by the International Bureau and was circulated to the members of the Committee as project file PCIPI/P 972/92 Rev.2 (see Annex 16 to the said project file).

8. The Committee noted the comments made by several offices in response to PCIPI Circular 1720 of April 21, 1993, as well as during the current session of the Committee, regarding the information contained in the above-mentioned draft list of periodicals and agreed:

(a) to delete periodicals bearing PCT identification numbers 002, 034, 084, 089, 130 and 201 from the PCT list and to include those periodicals in the Appendix to the list, which contains all those periodicals which have been deleted from the original PCT list, including periodicals for which publication has been discontinued;

(b) to include periodicals bearing the PCT identification numbers 015 and 021 and which are contained in the previous list (of 1989), in the Appendix to the list;

(c) to amend the introductory part of the PCT list, as proposed by the Delegation of Australia, by deleting from paragraph 1 the reference to the date January 1, 1994.

9. The Committee approved the new PCT list, consisting of the main list "PCT Minimum Documentation--List of Periodicals: Periodicals to be Used for Search and Examination" and an Appendix "Periodicals Which Have Been Deleted from the Original List, Including Those for Which Publication Has Been Discontinued," and agreed that the said PCT list would take effect as from January 1, 1994. The Committee noted that the PCT list would be published in the PCT Gazette as well as in the next updated issue of the WIPO Handbook on Industrial Property Information and Documentation. The said PCT list and the Appendix to it appear in Annex III to this report.

10. With respect to periodicals 207, 214, 222, 225 and 229, for which no ISSN numbers had been found, the Committee requested the Delegations of Germany, the United Kingdom and the United States of America to provide the respective data to the International Bureau as soon as possible in order to have complete information for the expected publication of the PCT list.

11. The Committee noted a new listing, compiled by the International Bureau after consulting the respective offices, of the titles of periodicals as given in the above-mentioned PCT list, which shows the distribution of those periodicals among the cooperating offices for the purposes of reviewing and indexing under the JOPAL Project. The JOPAL "distribution-of-work" list of PCT periodicals appears in Annex IV to this report.

12. The Committee also noted concern expressed by two delegations as to the usefulness of the JOPAL Project, keeping in mind the considerable efforts it required from the cooperating offices, and as to the extent to which industrial property offices, especially from developing countries, were benefitting from the JOPAL publications since no complete text of articles selected was made available under the Project.

13. As pointed out by several delegations, the JOPAL data were being used by their offices for assisting patent examination, and for some offices, constituted an effective means of access to the technological information contained in non-patent literature, and it was expected that the CD-ROM version of JOPAL (see paragraph 14, above) would make JOPAL more attractive in comparison with the paper edition. The Delegation of Bulgaria informed the Committee that not fewer than 85 periodicals covered by the JOPAL Project were regularly consulted by the patent examiners of the Bulgarian Office.

14. The International Bureau informed the Committee that the JOPAL CD-ROM, containing all references published in the JOPAL bulletins since its start and up to the end of 1992, would be published in July 1993.

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

15. Discussion was based on document PCT/CTC/XV/2, and the Committee also took note of written replies to Circular PCT 488 of January 29, 1993, submitted by the Offices of Brazil, Canada and the Russian Federation which were made available to the Committee at its session.

16. The Committee noted that the studies undertaken by a number of offices had shown that recent search reports contained a significant number of citations of documents which had been published prior to 1940, particularly in certain technical fields. Some delegations would have favored a later cut-off date for the PCT minimum documentation than 1920, as presently specified in PCT Rule 34.1(c). However, the majority of the Committee believed that a change to a later date would reduce the quality of search reports and that therefore no change should be made to the present cut-off date.

17. The Committee also noted that certain International Searching Authorities were against a change to a later cut-off date. It would therefore, in any event, be difficult to satisfy the requirements of PCT Rule 88.3(i) in relation to an amendment of Rule 34. In conclusion, the Committee agreed that the question of changing the cut-off date should not be further pursued and that the Assembly of the PCT Union should be informed accordingly.

DELIVERY ON CD-ROM OF CANADIAN NON-PRIORITY PATENT DOCUMENTS FORMING PART OF THE PCT MINIMUM DOCUMENTATION

18. Discussion was based on a letter submitted by the Swedish Patent Office and contained in document PCT/CTC/XV/3 concerning the intention of the Canadian Intellectual Property Office to produce in 1994 a CD-ROM containing bibliographic data, abstracts, disclosures, claims and drawings of Canadian laid-open applications and patents and to replace with that CD-ROM all materials presently provided to other patent offices, including the Canadian non-priority patent documents which form part of the PCT minimum documentation under Rule 34.1(c)(vi) of the PCT Regulations.

19. The Committee agreed that, because of the implications of using optical discs as data carriers for the exchange of patent documents between offices in general, this matter deserved broader attention. The Committee requested the International Bureau to inform the Executive Coordination Committee of the Permanent Committee on Industrial Property Information (PCIPI) of the situation described in the previous paragraph with the intention of creating an appropriate task in the PCIPI working program for the 1994-95 biennium.

20. With regard to the particular situation referred to in paragraph 18, above, as far as the so-called "sorted-out collections" under Rule 34.1(c)(vi) of the PCT Regulations are concerned, the Committee concluded that, for the time being, no International Searching Authority should be obliged to accept the receipt of those patent documents in the form of optical discs.

21. This report was unanimously adopted by the Committee at its closing meeting on June 11, 1993.

[Annexes follow]

LISTE DES PARTICIPANTS/
LIST OF PARTICIPANTS

I. ETATS MEMBRES/MEMBER STATES

(dans l'ordre alphabétique des noms français des Etats/
in the alphabetical order of the names in French of the States)

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Valerio CANDOLFI, chef de la Section d'information en matière de brevets, Office fédéral de la propriété intellectuelle, Berne

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OFFICE EUROPEEN DES BREVETS (OEB)/EUROPEAN PATENT OFFICE (EPO)

Robert BARÉ, Principal Director, Principal Directorate Documentation, EPO, Rijswijk (ZH), Netherlands

III. ORGANISATIONS OBSERVATRICES/OBSERVER ORGANIZATIONS

COMMISSION DES COMMUNAUTES EUROPEENNES (CCE)/COMMISSION OF THE EUROPEAN COMMUNITIES (CEC)

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GROUPE DE DOCUMENTATION SUR LES BREVETS (PDG)/PATENT DOCUMENTATION GROUP (PDG)

Nico V. SCHUITEMAKER, Secretary General, PDG, Delft, Netherlands

WORLD PATENT INFORMATION

Vincent S. DODD, Editor-in-Chief, World Patent Information, Cuffley, United Kingdom

IV. BUREAU/OFFICERS

Président/Chairman: Siep de VRIES (Pays-Bas/Netherlands)

Secrétaire/Secretary: Klaus-Peter WITTIG (OMPI/WIPO)

V. BUREAU INTERNATIONAL DE L'ORGANISATION MONDIALE DE LA PROPRIETE INTELLECTUELLE (OMPI)/INTERNATIONAL BUREAU OF THE WORLD INTELLECTUAL PROPERTY ORGANIZATION (WIPO)

François CURCHOD, vice-directeur général/Deputy Director General

Division de l'information en matière de propriété industrielle/Industrial Property Information Division: Akihiro NAKAMURA (directeur/Director); Klaus-Peter WITTIG (chef de la Section de l'information générale/Head, General Information Section)

Division juridique du PCT (Traité de coopération en matière de brevets)/Patent Cooperation Treaty (PCT) Legal Division: Busso BARTELS (directeur/Director); Philip THOMAS (conseiller principal/Senior Counsellor)

ANNEX II

AGENDA

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[Annex III follows]

ANNEX III

"MINIMUM DOCUMENTATION" UNDER RULE 34.1(b)(iii) OF THE
REGULATIONS UNDER THE PATENT COOPERATION TREATY (PCT)

Introduction

1. The International Searching Authorities have agreed that, for the purposes of PCT Rule 34.1(b)(iii), the published items of non-patent literature to be included in the PCT "minimum documentation" should be the items published in the periodicals listed below during the five-year period preceding the time at which an international search report is established, it being understood that an International Searching Authority (ISA) would not be precluded from consulting issues of the said periodicals published prior to the beginning of the said five-year period. It has been agreed by the PCT Committee for Technical Cooperation that the periodicals need be consulted by the ISA only in respect of issues published after the effective inclusion of such periodicals in the list. The list is preceded by explanatory notes facilitating an understanding of the indications contained therein.

2. The list was originally agreed upon at a meeting held in Geneva on April 12, 1978. The present list, which takes into account changes to the titles of periodicals and also changes to publishers' names and addresses, was agreed upon by the International Searching Authorities at a meeting held in Geneva on June 3 to 11, 1993, with effect from January 1, 1994. This (new) list replaces the list published in a Special Issue of the PCT Gazette No. 19/1989, dated August 10, 1989, and in the WIPO Handbook on Industrial Property Information and Documentation (pages 4.2.1 to 4.2.22 of the December 1990 issue).

Explanatory Notes

3. Each entry of the list contains one periodical only and gives information for each periodical by using letter codes A to I as defined below:

- A - PCT identification number
- B - Title of the periodical
- C - Publisher's name and address
- D - Short title of the periodical
- E - ISSN Number
- F - Indication of language of the periodical by using the following abbreviations:

"De" for German	"Nl" for Dutch
"En" for English	"Pt" for Portuguese
"Fr" for French	"Ru" for Russian
"It" for Italian	"Sp" for Spanish
"Ja" for Japanese	"Sv" for Swedish

- G - Year when the periodical was first included in the list
- H - Comments
- I - Sequence number of periodical in this list.

4. The titles of the periodicals are arranged in ascending order of the PCT identification number, subject to the following:

(i) when several editions of a periodical exist in different languages (e.g., by cover-to-cover translation), the periodical is listed according to the title of the English edition, if any, together with the original title in parentheses. If no English edition exists, the original title is used for the purposes of the list;

(ii) where the title of a periodical has changed, both the new title and the former title (in parentheses) are indicated in the list, the PCT identification number allotted to the periodical remaining unchanged.

5. The names of Japanese publishers are indicated in English, followed by transliteration of the Japanese name into Latin characters in parentheses.

6. The names and addresses of the publishers of the original editions of Russian periodicals are indicated below the names and addresses of the publishers of cover-to-cover translations into English. The language of each edition of the periodical is indicated, in this case, according to the respective publishers.

7. Whenever the periodical contains, in addition to full-text articles in the language, or languages, in which it is published, translations of abstracts, or of abstracts and part of the text, into other languages, this fact is indicated by an asterisk next to the indication of the languages.

8. For reference purposes, an Appendix to the current list of periodicals contains all the periodicals which have been deleted from the original list, including those journals for which publication has been discontinued. The year of deletion or discontinuation is given under letter code "H" of each entry.

PCT MINIMUM DOCUMENTATION - LIST OF PERIODICALS:
PERIODICALS TO BE USED FOR SEARCH AND EXAMINATION

DOCUMENTATION MINIMALE DU PCT - LISTE DES PERIODIQUES :
PERIODIQUES A UTILISER AUX FINS DE LA RECHERCHE ET DE L'EXAMEN

A - 001
B - Journal of the Acoustical Society of America
C - American Institute of Physics
335 East 45th Street, New York, NY 10017, USA
D - J. ACOUST. SOC. AM.
E - 0001-4966
F - En
G - 1981
I - 001

A - 003
B - Acta Chemica Scandinavica
C - Munksgaard
Noerre Soegade 35, DK-1370 Copenhagen K, Denmark
D - ACTA CHEM. SCAND. (A&B)
E - 0904-213X
F - En, Fr, De
G - 1981
I - 002

A - 005
B - Bioscience, Biotechnology and Biochemistry / Agricultural
and Biological Chemistry
C - Japan Society for Bioscience, Biotechnology and Agrochemistry
Japan Academic Societies Center, 4-16 Yayoi
2-chome, Bunkyo-ku, Tokyo 113, Japan
D - BIOSCIENCE etc. (JP)
E - 0916-8451
F - En
G - 1981
I - 003

A - 007
B - Journal of the American Ceramic Society,
C - American Ceramic Society
65, Ceramic Drive, Columbus, OH 43214, USA
D - J. AM. CER. SOC.
E - 0002-7820
F - En
G - 1981
I - 004

A - 008
B - Journal of the American Chemical Society,
C - American Chemical Society
1155 16th Street, NW, Washington DC 20036, USA
D - J. AM. CHEM. SOC.
E - 0002-7863
F - En
G - 1981
I - 005

A - 010
B - Analytical Chemistry
C - American Chemical Society
1155 16th Street, NW, Washington DC 20036, USA
D - ANAL. CHEM.
E - 0003-2700
F - En
G - 1981
I - 006

A - 011
B - Angewandte Chemie
C - VCH Verlags Gesellschaft mbH
Postfach 101161
D-69451 Weinheim, Germany
D - ANGEWANDTE CHEMIE
E - 0570-0833
F - En, Fr
G - 1981
I - 007

A - 013
B - Applied Optics
C - Optical Society of America
2010 Massachusetts Avenue, N.W., Washington, D.C. 20036-1023, USA
D - APPLIED OPTICS
E - 0003-6935
F - En, Fr, De, Ru
G - 1981
I - 008

A - 014
B - Applied Physics Letters
C - American Institute of Physics
335 East 45th Street, New York, NY 10017, USA
D - APPL. PHYS. LETTERS
E - 0003-6951
F - En
G - 1981
I - 009

A - 017
B - Automobiltechnische Zeitschrift (ATZ)
C - Franckh-Kosmos Verlags-GmbH & Co.
Postfach 106011, D-70049 Stuttgart, Germany
D - ATZ
E - 0001-2785
F - De
G - 1981
I - 010

A - 020
B - Aviation Week and Space Technology
C - McGraw-Hill Inc.
McGraw-Hill Building,
1221 Av. of the Americas, New York NY 10020 USA
D - AV. WK & SPACE TECHN.
E - 0005-2175
F - En
G - 1981
I - 011

A - 022
B - AT&T Technical Journal / ex-AT&T Bell Laboratories
Technical Journal / ex-Bell System Technical Journal
C - American Telephone and Telegraph Co.
Bell Telephone Laboratories, 600 Mountain Avenue,
Murray Hill, NJ 07974, USA
D - AT&T TECHN. J.
E - 8756-2324
F - En
G - 1985
I - 012

A - 027
B - Chemical & Engineering News
C - American Chemical Society
1155, 16th Street, NW, Washington DC 20036, USA
D - C & EN
E - 0009-2347
F - En
G - 1981
I - 013

A - 028
B - Chemical and Pharmaceutical Bulletin / Pharmaceutical Bulletin
C - Pharmaceutical Society of Japan
12-15-501 Shibuya 2-chome, Shibuya-ku, Tokyo 150, Japan
D - CHEM & PHARM. BULL. JP
E - 0009-2363
F - En
G - 1981
I - 014

A - 029
B - Chemical Engineering
C - McGraw-Hill Inc.
McGraw-Hill Building, 1221 Avenue of the Americas,
New York, NY 10020, USA
D - CHEM. ENGINEERING
E - 0009-2460
F - En
G - 1981
I - 015

A - 031
B - Chemical Reviews
C - American Chemical Society
1155 16th Street, NW, Washington DC 20036, USA
D - CHEMICAL REVIEWS
E - 0009-2665
F - En
G - 1981
I - 016

A - 032
B - Journal of the Chemical Society - Six sections:
(a) -Chemical Communications (new results, all branches)
(b) -Dalton Transactions (inorganic chemistry)
(c) -Faraday Transactions
(ex-Faraday Transactions I, Faraday Transactions II)
(d) -Perkin Transactions I (organic and bio-organic chemistry)
(e) -Perkin Transactions II (physical organic chemistry)
C - The Royal Society of Chemistry, Distribution Centre
Blackhorse Road, Letchworth, Herts., SG6 1HN, United Kingdom
D - J. CHEM. SOC. UK
E - (a) 0022-4936, (b) 3165-3284
(c) 0956-5000, (d) 0300-922X, (e) 0300-9580
F - En
G - 1981
I - 017

A - 033
B - Bulletin of the Chemical Society of Japan,
C - Chemical Society of Japan (Nippon Kagakukai)
1-5, Kanda-Surugadai, Chiyoda-ku, Tokyo 101, Japan
D - BULL. CHEM. SOC. JP
E - 0009-2673
F - En
G - 1981
I - 018

A - 035
B - Chemie-Ingenieur-Technik
C - VCH Verlags Gesellschaft mbH
Postfach 101161, D-69451 Weinheim, Germany
D - CHEM. ING. TECHNIK
E - 0009-286X
F - De, En, Fr
G - 1981
I - 019

A - 037
B - Chemische Berichte
C - VCH Verlags Gesellschaft mbH
Postfach 101161, D-69451 Weinheim, Germany
D - CHEMISCHE BERICHTE
E - 0009-2940
F - En* / De
G - 1981
I - 020

A - 038
B - Chemistry and Industry
C - The Society of Chemical Industry
15, Belgrave Sq., London SW1X 8PS, United Kingdom
D - CHEM. & INDUSTRY
E - 0009-3068
F - En
G - 1981
I - 021

A - 041
B - Collection of Czechoslovak Chemical Communications
C - Institute of Organic Chemistry and Biochemistry
Academy of Sciences of the Czech Republic, Flemingovo nám. 2,
16610 Praha 6, Czech Republic
D - CZECH. CHEM. COMMUN.
E - 0010-0756
F - En
G - 1981
I - 022

A - 045
B - Control Engineering
C - Cahners Publishing, Div. of Reed Publishing
275 Washington St., Newton, MA 02158, USA
D - CONTROL ENGINEERING
E - 0010-8049
F - En
G - 1981
I - 023

A - 047
B - Electrical Communication
C - Alcatel
PHQ, 33 Rue Emerliau, 75725 Paris Cédex, France
D - ELECTRICAL COMMUN.
E - 0013-4252
F - En, Fr, De, Sp
G - 1981
I - 024

A - 048
B - Journal of the Electrochemical Society,
C - Electrochemical Society, Inc.
10, South Main Str. Pennington, NJ 08534, USA
D - J. ELECTROCHEM. SOC.
E - 0013-4651
F - En
G - 1981
I - 025

A - 049
B - Electronic Design
C - Penton Publishing, Inc.
1100 Superior Ave., Cleveland, OH 44114, USA
D - ELECTRONIC DESIGN
E - 0013-4872
F - En
G - 1981
I - 026

A - 050
B - Electronic Engineering
C - Morgan-Grampian (Publishers) Ltd.
30 Calderwood Street, London SE18 6QH, United Kingdom
D - ELECTRONIC ENG.
E - 0013-4902
F - En
G - 1981
I - 027

A - 051
B - Electronics / Electronics Week
C - Penton Publishing, Inc.
1100 Superior Av., Cleveland, OH 44114, USA
D - ELECTRONICS
E - 0883-4989
F - En
G - 1981
I - 028

A - 057
B - Funkschau
C - Franzis-Verlag GmbH & Co KG
Karlstrasse 35 + 41, D-80333 München, Germany
D - FUNKSCHAU
E - 0016-2841
F - De
G - 1981
I - 029

A - 062
B - IBM Journal of Research and Development
C - International Business Machines Corporation
Armonk, New York, NY 10504, USA
D - IBM. J. RES. & DEV.
E - 0018-8646
F - En
G - 1981
I - 030

A - 063
B - IBM Technical Disclosure Bulletin
C - International Business Machines Corporation
Armonk, New York, NY 10504, USA
D - IBM TECHN. DISCL. BULL.
E - 0018-8689
F - En
G - 1981
I - 031

A - 064
B - IEEE Journal of Quantum Electronics
C - Institute of Electrical and Electronics Engineers Inc.
445 Hoes Lane, Piscataway, P.O. Box 1331, NJ 08855, USA
D - IEEE J. Q. ELECTR.
E - 0018-9197
F - En
G - 1981
I - 032

A - 065
B - IEEE Journal of Solid State Circuits
C - Institute of Electrical and Electronics Engineers Inc.
445 Hoes Lane, Piscataway, P.O. Box 1331, NJ 08855, USA
D - IEEE J. SOLID STATE CIRC.
E - 0018-9200
F - En
G - 1981
I - 033

A - 066
B - Proceedings of the IEEE
C - Institute of Electrical and Electronics Engineers Inc.
445 Hoes Lane, Piscataway, P.O. Box 1331, NJ 08855, USA
D - PROCEEDINGS OF IEEE
E - 0018-9219
F - En
G - 1981
I - 034

A - 067
B - IEEE Spectrum
C - Institute of Electrical and Electronics Engineers Inc.
445 Hoes Lane, Piscataway, P.O. Box 1331, NJ 08855, USA
D - IEEE SPECTRUM
E - 0018-9235
F - En
G - 1981
I - 035

A - 068
B - IEEE-Transactions on Aerospace and Electronic Systems
C - Institute of Electrical and Electronics Engineers Inc.
445 Hoes Lane, Piscataway, P.O. Box 1331, NJ 08855, USA
D - IEEE TR. AEROSPACE etc.
E - 0018-9521
F - En
G - 1981
I - 036

A - 069
B - IEEE-Transactions on Signal Processing/ Audio and
Electroacoustics /Acoustics, Speech and Signal Processing
C - Institute of Electrical and Electronics Engineers Inc.
445 Hoes Lane, Piscataway, P.O. Box 1331, NJ 08855, USA
D - IEEE TR. ACOUST. etc.
E - 1053-587X
F - En
G - 1981
I - 037

A - 071
B - IEEE-Transactions on Biomedical Engineering
C - Institute of Electrical and Electronics Engineers Inc.
445 Hoes Lane, Piscataway, P.O. Box 1331, NJ 08855, USA
D - IEEE TR. BIOMED. ENG.
E - 0018-9294
F - En
G - 1981
I - 038

A - 072
B - IEEE-Transactions on Consumer Electronics / Broadcast and Televisions
Receivers
C - Institute of Electrical and Electronics Engineers Inc.
445 Hoes Lane, Piscataway, P.O. Box 1331, NJ 08855, USA
D - IEEE TR. CONSUMER etc.
E - 0098-3063
F - En
G - 1981
I - 039

A - 073
B - IEEE-Transactions on Communications / Communication Technology
C - Institute of Electrical and Electronics Engineers Inc.
445 Hoes Lane, Piscataway, P.O. Box 1331, NJ 08855, USA
D - IEEE TR. COMMUNIC.
E - 0090-6778
F - En
G - 1981
I - 040

A - 074
B - IEEE-Transactions on Computers / Electronic Computers
C - Institute of Electrical and Electronics Engineers Inc.
445 Hoes Lane, Piscataway, P.O. Box 1331, NJ 08855, USA
D - IEEE TR. COMPUTERS
E - 0018-9340
F - En
G - 1981
I - 041

A - 075
B - IEEE-Transactions on Electron Devices
C - Institute of Electrical and Electronics Engineers Inc.
445 Hoes Lane, Piscataway, P.O. Box 1331, NJ 08855, USA
D - IEEE TR. ELECTR. DEV.
E - 0018-9383
F - En
G - 1981
I - 042

A - 077
B - IEEE-Transactions on Instrumentation and Measurement
C - Institute of Electrical and Electronics Engineers Inc.
445 Hoes Lane, Piscataway, P.O. Box 1331, NJ 08855, USA
D - IEEE TR. INSTRUM. etc.
E - 0018-9456
F - En
G - 1981
I - 043

A - 078
B - IEEE-Transactions on Microwave Theory and Techniques
C - Institute of Electrical and Electronics Engineers Inc.
445 Hoes Lane, Piscataway, P.O. Box 1331, NJ 08855, USA
D - IEEE TR. MICROWAVE etc.
E - 0018-9480
F - En
G - 1981
I - 044

A - 079
B - IEEE-Transactions on Components, Hybrids and Manufacturing Technology
C - Institute of Electrical and Electronics Engineers Inc.
445 Hoes Lane, Piscataway, P.O. Box 1331, NJ 08855, USA
D - IEEE TR. COMPONENTS etc.
E - 0148-6411
F - En
G - 1981
I - 045

- A - 081
- B - IEEE-Transactions on Ultrasonics, Ferroelectrics and Frequency Control /
Sonics and Ultrasonics
- C - Institute of Electrical and Electronics Engineers Inc.
445 Hoes Lane, Piscataway, P.O. Box 1331, NJ 08855, USA
- D - IEEE T. ULTRASONICS etc.
- E - 0885-3010
- F - En
- G - 1981
- I - 046

- A - 083
- B - Industrial and Engineering Chemistry Research
- C - American Chemical Society
1155, 16th Street, NW, Washington DC 20036, USA
- D - IND. & ENG. CHEM. I
- E - 0019-7874
- F - En
- G - 1981
- I - 047

- A - 085
- B - Transactions of the Institute of Electronics, Information
and Communication Engineers (Denshi Joho Tsushin Gakkai Ronbunshi)
- Section E:
All areas: Original contributions in English,
and English abstracts of papers and letters
published in Section J, Parts A-B-C-D above
-Section J:
- Part A - Transactions on fundamentals of Electronics,
Communications and Computer Sciences / Basis
- Part B - Transactions on Communications / Communication
- Part C - Transactions on Electronics / Electronics
- Part D - Transactions on Information and Systems /
Information Processing
- C - The Institute of Electronics, Information and
Communication Engineers
(Denshi Joho Tsushin Gakkai)
Kikai-Shinko-Kaikan 5-8 Bldg, Shibakoen 3-chome,
Minato-ku, Tokyo 105, Japan
- D - TR. INST. ELECTR. etc. JP
- E - 0913-574X
(A) 0916-8508
(B) 0916-8516
(C) 0916-8524
(D) 0916-8532
- F - Section E : En
Section J: A - Ja, En*; B - Ja, En*; C - Ja, En*; D - Ja, En*
- G - 1981
- I - 048

- A - 090
B - Japanese Journal of Applied Physics
1. Regular papers & short notes
2. Letters
C - Japanese Journal of Applied Physics Publication Office,
Daini Toyokaiji Building, 24-8, Shinbashi 4-chome,
Minato-ku, Tokyo 105, Japan
D - JJAP
E - 0021-4922
F - En
G - 1981
I - 049
- A - 091
B - Kobunshi Ronbunshu / Japanese Journal of Polymer Science
and Technology
C - The Society of Polymer Science, Japan (Kobunshi Gakkai)
Tsukiji Daisan Nagaoka Bldg., 2-4-2 Tsukiji, Chuo-Ku,
Tokyo 104, Japan
D - KOBUNSHI RONBUNSHU
E - 0386-2186
F - En*, Ja
G - 1981
I - 050
- A - 092
B - Journal of Agricultural and Food Chemistry
C - American Chemical Society
1155, 16th Street, NW, Washington DC 20036, USA
D - J. AGR. & FOOD CHEM.
E - 0021-8561
F - En
G - 1981
I - 051
- A - 095
B - Journal of Applied Chemistry of Russia
C - Consultants Bureau
233 Springstr., New York, NY 10013, USA.
or
(Zhurnal Prikladnoi Khimii)
Nauka
Mendeleevskaya Linia 1, 199164 St. Petersburg, Russia
D - J. APPL. CHEM. RU
E - 0021-888X / 0044-4618
F - En / Ru
G - 1981
I - 052

A - 096
B - Journal of Applied Physics
C - American Institute of Physics
500 Sunnyside Blvd., Woodbury, NY 11797, USA
D - J. APPL. PHYSICS
E - 0021-8979
F - En
G - 1981
I - 053

A - 097
B - Journal of Applied Polymer Science
C - John Wiley and Sons, Inc., Periodicals Department
605 Third Avenue, New York, NY 10158, USA
D - J. APPL. POLYMER SC.
E - 0021-8995
F - En
G - 1981
I - 054

A - 098
B - Journal of Chromatography
-Biomedical Applications
-Chromatographic Reviews discontinued as of January 1987
C - Elsevier Science Publishers B.V.
Box 330, 1055 KV Amsterdam, Netherlands
D - J. CHROMATOGRAPHY
E - 0378-4347
F - En, Fr, De
G - 1981
I - 055

A - 100
B - Journal of General Chemistry of Russia
C - Consultants Bureau
233 Springstr., New York, NY 10013, USA
or
(Zhurnal Obschei Khimii)
Nauka
Mendeleevskaya Linia 1, 199164 St. Petersburg, Russia
D - J. GEN. CHEM. RU
E - 0022-1279 / 0044-460X
F - En / Ru
G - 1981
I - 056

A - 102
B - JOM - Journal of Metals
C - The Minerals, Metals & Materials Society of AIME
P.O. Box 430, 420 Commonwealth Drive,
Warrendale, PA 15086, USA
D - JOM
E - 0148-6608
F - En
G - 1981
I - 057

A - 103
B - The Journal of Organic Chemistry
C - American Chemical Society
1155 16th Street, NW, Washington DC 20036, USA
D - J. ORGANIC CHEM.
E - 0022-3263
F - En
G - 1981
I - 058

A - 104
B - Journal of Organometallic Chemistry
C - Elsevier Sequoia S.A.
P.O. Box 564, 1001 Lausanne, Switzerland
D - J. ORGANOMET. CHEM.
E - 0022-328X
F - En, Fr, De
G - 1981
I - 059

A - 106
B - Measurement Science & Technology / Journal of Physics:
-Part E - Scientific Instruments
C - Institute of Physics
Techno House, Redcliffe Way,
Bristol BS1 6NX, United Kingdom
D - MEASUREMENT SC & T
E - 0957-0233
F - En
G - 1981
I - 060

A - 107
B - Journal of Polymer Science
 -Part A, Polymer chemistry (ex-Polymer chemistry)
 -Part B, Polymer physics (ex-Polymer physics)
C - John Wiley & Sons Inc., Periodicals Department
 605 Third Avenue, New York, NY 10016, USA
D - J. POLYMER SC.
E - 0887-624X
 0887-6266
 0887-6258
F - En
G - 1981
I - 061

A - 108
B - Journal of the Royal Netherlands Chemical Society
 Recueil des Travaux Chimiques des Pays-Bas
C - Elsevier Science Publishers B.V.
 Box 330, 1055 KV Amsterdam, Netherlands
D - J. R. NETH. CHEM. SOC.
E - 0165-0513
F - En, Fr, De
G - 1981
I - 062

A - 110
B - Kunststoffe
C - Carl Hanser Verlag
 Postfach 860420, D-81631 München, Germany
D - KUNSTSTOFFE
E - 0723-0192
F - De
G - 1981
I - 063

A - 112
B - Machine Design
C - Penton Publishing, Inc.
 1100 Superior Av., Cleveland, OH 44114, USA
D - MACHINE DESIGN
E - 0024-9114
F - En
G - 1981
I - 064

A - 117
B - Metal Finishing
C - Elsevier Science Publishers B.V.
Box 330, 1055 KV Amsterdam, Netherlands
D - METAL FINISHING
E - 0026-0576
F - En
G - 1981
I - 065

A - 122
B - Modern Plastics International
C - McGraw Hill Inc.
McGraw Hill Building, 1221 Avenue of the Americas,
New York, NY 10020, USA
D - MODERN PLASTICS INTERN.
E - 0026-8283
F - En
G - 1981
I - 066

A - 126
B - Journal of the Optical Society of America,
(Parts A and B from January and March 1984 respectively)
-Part A, Optics and Image Science
-Part B, Optical Physics
C - Optical Society of America, 2010 Massachussets Ave. N.W.,
Washington D.C. 20036, USA.
335 East 45th Street, New York, NY 10017, USA
D - J. OPTICAL SOC.
E - A-0740-3232/ B-0740-3224
F - En
G - 1981
I - 067

A - 127
B - Optics & Spectroscopy
C - American Institute of Physics
335 East 45th Street, New York, NY 10017, USA
or
Optika i Spektroskopiya
Nauka
Mendeleevskaya linia 1, 199164 St. Petersburg, Russia
D - OPTICS & SPECTROSCOPY
E - 0030-400X / 0030-4034
F - En / Ru
G - 1981
I - 068

A - 129
B - Philips Journal of Research
C - N. V. Philips' Gloeilampenfabrieken, Research Laboratories
Eindhoven, Netherlands
D - PHILIPS J. RES.
E - 0165-5817
F - En
G - 1981
I - 069

A - 131
B - Physical Review (A-B-C-D)
-Part A, Statistical Physics, Plasmas, Fluids and
Related Interdisciplinary Topics / General Physics
-Part B, Condensed Matter
-Part C, Nuclear Physics
-Part D, Particles and Fields
C - American Physical Society
335 East 45th Street, New York, NY 10017, USA
D - PHYSICAL REVIEW
E - A-0094-0003/ B-0163-1829/ C-0556-2813/ D-0556-2821
F - En
G - 1981
I - 070

A - 132
B - Plastverarbeiter
C - Verlagsgruppe Huethig
Postfach 102869, D-69018 Heidelberg, Germany
D - PLASTVERARBEITER
E - 0032-1338
F - De
G - 1981
I - 071

A - 133
B - Playthings
C - Geyer-McAllister Publications, Inc.
51 Madison Avenue, New York, NY 10010, USA
D - PLAYTHINGS
E - 0032-1567
F - En
G - 1981
I - 072

A - 134
B - Polymer Science
C - Pergamon Press
Headington Hill Hall, Oxford OX3 OBW, United Kingdom
or
Vysokomolekulyarnye Soedinenia
Nauka
Kuznetsky most, 9/10, 103031 Moscow, Russia
D - POLYMER SCIENCE
E - 0032-3950
F - En / Ru
G - 1981
I - 073

A - 135
B - Power
C - McGraw-Hill, Inc.
McGraw-Hill Building, 1221 Avenue of the Americas,
New York, NY 10020, USA
D - POWER
E - 0032-5929
F - En
G - 1981
I - 074

A - 139
B - Review of Scientific Instruments
C - American Institute of Physics
335 East 45th Street, New York, NY 10017, USA
D - REVIEW SC. INSTR.
E - 0034-6748
F - En
G - 1981
I - 075

A - 141
B - Rubber Chemistry and Technology
C - American Chemical Society, Rubber Division,
University of Akron
Akron, OH 44325, USA
D - RUBBER CHEM. & TECHN.
E - 0035-9475
F - En
G - 1981
I - 076

A - 144
B - Automotive Engineering
C - Society of Automotive Engineers, Inc., SAE Headquarters
400 Commonwealth Drive, Warrendale, PA 15096, USA
D - AUTOMOTIVE ENG.
E - 0098-2571
F - En
G - 1981
I - 077

A - 145
B - Scientific American
C - Scientific American Inc.
415 Madison Avenue, New York, NY 10017, USA
D - SCIENTIFIC AMERICAN
E - 0036-8733
F - En
G - 1981
I - 078

A - 147
B - SMPTE Journal
C - Society of Motion Picture and Television Engineers, Inc.
595 W. Hartsdale Av., Wide Planes, New York, NY 10607, USA
D - SMPTE JOURNAL
E - 0036-1682
F - En
G - 1981
I - 079

A - 148
B - SDC-Journal of the Society of Dyers and Colourists,
C - The Society of Dyers and Colourists
P.O. Box 244, Perkin House, 82 Grattan Road,
Bradford, Yorkshire BD1 2JB, United Kingdom
D - SDC
E - 0037-9859
F - En
G - 1981
I - 080

A - 149
B - Solid State Electronics
C - Pergamon Press
Headington Hill Hall, Oxford OX3 0BW, United Kingdom
D - SOLID STATE ELECTRONICS
E - 0038-1101
F - En
G - 1981
I - 081

A - 150
B - Solid State Technology
C - Pennwell Publishing Company
Advanced Technology Group,
One Technology Park Dr., Westford, MA 01886, USA
D - SOLID STATE TECHNOLOGY
E - 0038-111X
F - En
G - 1981
I - 082

A - 156
B - Stahl und Eisen
C - Verlag Stahl und Eisen GmbH
Postfach 10 51 64, D-40042 Düsseldorf, Germany
D - STAHL UND EISEN
E - 0340-4803
F - En*, De
G - 1981
I - 083

A - 157
B - Steroids: Structure, Function and Regulation
C - Butterworth-Heinemann,
80, Montvale Av., Stoneham, MA 02180, USA
D - STEROIDS
E - 0039-128X
F - En
G - 1981
I - 084

A - 158
B - TAPPI Journal / TAPPI
C - TAPPI - Technical Association of the Pulp and Paper Industry
15 Technology Parkway S.,
Norcross, GA 30092, USA
D - TAPPI
E - 0734-1415
F - En
G - 1981
I - 085

A - 159
B - Tetrahedron
C - Pergamon Press
Headington Hill Hall, Oxford, OX3 0BW, United Kingdom
D - TETRAHEDRON
E - 0040-4020
F - En, Fr, De
G - 1981
I - 086

A - 160
B - Tetrahedron Letters
C - Pergamon Press
Headington Hill Hall, Oxford OX3 0BW, United Kingdom
D - TETRAHEDRON LETTERS
E - 0040-4039
F - En, Fr, De
G - 1981
I - 087

A - 163
B - Textile Research Journal
C - Textile Research Institute
Box 625, Princeton, NJ 08540, USA
D - TEXTILE RESEARCH J.
E - 0040-5175
F - En
G - 1981
I - 088

A - 164
B - VDI-Z/ Zeitschrift für Integrierte Produktionstechnik
C - (Verein Deutscher Ingenieure)
VDI-Verlag GmbH
Postfach 10 10 54, D-40001 Düsseldorf, Germany
D - VDI-Z
E - 0042-1766
F - En*, De
G - 1981
I - 089

A - 165
B - Water Environment Research / Journal of the Water Pollution
Control Federation,
C - Water Environment Federation
601, White Str., Alexandria, VA 22314, USA
D - J. WATER POLL. CONTROL
E - 1047-7624
F - En, Fr*, De*, Pt*, Sp*
G - 1981
I - 090

A - 168
B - Electronics World + Wireless World / Wireless World
C - IPC Industrial Press Ltd.,
 Quadrant House, The Quadrant, Sutton
 Surrey SM2 5AS, United Kingdom
D - ELECTRONICS WIRELESS W.
E - 0266-3244
F - En
G - 1981
I - 091

A - 169
B - Chemical Abstracts
C - Chemical Abstracts Service
 Marketing Department, The Ohio State University
 Columbus, OH 43210, USA
D - CHEM. ABSTR.
E - 0009-2258
F - En
G - 1981
I - 092

A - 170
B - Bulletin de la Société chimique de France
C - Elsevier
 29, rue Buffon, F-75005 Paris, France
D - BULL. SOC. CHIM. FR
E - 0037-8968
F - Fr
G - 1982
I - 093

A - 171
B - L'Onde électrique
C - Revue Générale de l'Electricité S.A.
 48, rue de la Procession, F-75724 Paris Cédex 15, France
D - L'ONDE ELECTRIQUE
E - 0030-2430
F - En*, Fr
G - 1982
I - 094

A - 177
B - Journal of Crystal Growth
C - Elsevier / North-Holland Publishing Co.
 P.O. Box 103, 1000 AC Amsterdam, Netherlands
D - J. CRYSTAL GROWTH
E - 0022-0248
F - En
G - 1985
I - 095

A - 178
B - Journal of Organic Chemistry of Russia
C - Consultants Bureau
233 Springstr., New York, NY 10013, USA
or
Zhurnal Organicheskoi Khimii
Nauka
Mendeleevskaya Linia 1, 199164 St. Petersburg, Russia
D - J. ORGAN. CHEM. RU
E - 0022-3271 / 0514-7492
F - En / Ru
G - 1985
I - 096

A - 180
B - Optics Communications
C - Elsevier / North-Holland Publishing Co.
P.O. Box 103, 1000 AC Amsterdam, Netherlands
D - OPTICS COMMUNICATIONS
E - 0030-4018
F - En
G - 1985
I - 097

A - 181
B - Radio Fernsehen Elektronik
C - Verlag Technik GmbH
Am Friedrichshain 22, D-10407 Berlin, Germany
D - RADIO FERNSEHEN ELEKTR.
E - 7900-0033
F - De
G - 1985
I - 098

A - 183
B - Semiconductors
C - American Institute of Physics
335 East 45th Street, New York, NY 10017, USA
or
Fizika i Tekhnika Poluprovodnikov
Nauka
Leninsky prospekt 15, 117071 Moscow, Russia
D - SOVIET PHYS.- SEMICOND.
E - 0038-5700 / 0042-1294
F - En / Ru
G - 1985
I - 099

A - 185
B - Soviet Technical Physics Letters
C - American Institute of Physics
335 East 45th Street, New York, NY 10017, USA
or
Pisma v Zhurnal Tekhnicheskoi Fiziki
Nauka
Mendeleevskaya linia 1, 199164 St. Petersburg, Russia
D - SOVIET TECH. PHYS. LETT.
E - 0360-120X / 0330-0116
F - En / Ru
G - 1985
I - 100

A - 189
B - Xerox Disclosure Journal
C - Xerox Corporation
Xerox Square, 020 Rochester, NY 14644, USA
D - XEROX DISCL. J.
E - 0361-4190
F - En
G - 1985
I - 101

A - 195
B - Nature
C - Macmillan Magazines Ltd.
4 Little Essex Street, London WC2R 3LF, United Kingdom
D - NATURE
E - 0028-0836
F - En
G - 1987
I - 102

A - 196
B - Proceedings of the National Academy of Sciences of the USA
C - National Academy of Sciences
2101 Constitution Avenue, Washington DC, 20418, USA
D - PROC. NAT. ACAD. SC. USA
E - 0027-8424
F - En
G - 1987
I - 103

A - 197
B - Gene
C - Elsevier / North-Holland Publishing Co.
P.O. Box 103, 1000 AC Amsterdam, Netherlands
D - GENE
E - 0378-1119
F - En
G - 1989
I - 104

A - 198
B - Nucleic Acids Research
C - IRL Press Ltd.
Box 1, Eynsham, Oxford OX8 1JJ, United Kingdom
D - NUCLEIC ACIDS RESEARCH
E - 0350-1048
F - En
G - 1989
I - 105

A - 199
B - Science
C - American Association for the Advancement of Science
1515 Massachusetts Avenue N.W., Washington DC 20005, USA
D - SCIENCE
E - 0036-8075
F - En
G - 1989
I - 106

A - 202
B - Electronic Letters
C - IEE Stevenage
United Kingdom
D - ELECTR. LETTERS
E - 0013-5194
F - En
G - 1994
I - 107

A - 203
B - Computer Design
C - Penwell Publ.
Littleton, Ma., USA
D - COMP. DESIGN
E - 0010-4566
F - En
G - 1994
I - 108

A - 204
B - Elektronik
C - Franzis Verlag GmbH.
Karlstr. 35+41, D-80333, München, Germany
D - ELEKTRONIK
E - 0013-5658
F - De
G - 1994
I - 109

A - 205
B - IEEE Electron Device Letters
C - IEEE Inc.
New York, NY, USA
D - IEEE ELECTR. DEV. etc.
E - 0741-3106
F - En
G - 1994
I - 110

A - 206
B - Thin Solid Films
C - Elsevier-Sequoia S.A.
Lausanne, Switzerland
D - THIN SOLID FILMS
E - 0040-6090
F - En
G - 1994
I - 111

A - 207
B - Wescon Technical Papers
C - Western Periodicals Co.
424 E. Main St., Ventura, CA 93001, USA
D - WESCON TECH. PAP.
E - 0083-8837
F - En
G - 1994
I - 112

A - 208
B - IEEE - Transactions on Nuclear Science
C - IEEE Inc.
New York, NY, USA
D - IEEE TR. NUCL. SC.
E - 0018-9499
F - En
G - 1994
I - 113

A - 209
B - Journal of Biological Chemistry
C - Waverly Press
P.O. Box 400, Prospect Heights, IL 60070, USA
D - J. BIOL. CHEM.
E - 0021-9258
F - En
G - 1994
I - 114

A - 210
B - BBA Biochemica et Biophysica ACTA
C - Elsevier
P.O. Box 882, Madison Sq. Station, New York, NY, USA
D - BBA BIOCHEM. etc.
E - 0006-3002
F - En
G - 1994
I - 115

A - 211
B - Biochemistry
C - American Chemical Society
1155 16th Street, N.W., Washington, D.C. 20036, USA
D - BIOCHEM.
E - 0006-2960
F - En
G - 1994
I - 116

A - 212
B - Cancer Research
C - Waverly Press
P.O. Box 400, Prospect Heights, IL 60070, USA
D - CANCER RES.
E - 0008-5472
F - En
G - 1994
I - 117

A - 213
B - Methods in Enzymology
C - Academic Press
1250 Sixth Avenue, San Diego, CA 92101, USA
D - METH. ENZYM.
E - 0076-6879
F - En
G - 1994
I - 118

A - 214
B - BBRC Biochemistry
Biophysiology Research Community
C - Academic Press
1250 Sixth Avenue, San Diego, CA 92101, USA
D - BBRC BIOCHEM. etc.
E - 0006-291X
F - En
G - 1994
I - 119

A - 215
B - Clinical Chemistry
C - American Association for Clinical Chemistry
2029 K Street, N.W., Washington, D.C. 20006, USA
D - CLIN. CHEM.
E - 0009-9147
F - En
G - 1994
I - 120

A - 216
B - Journal of Immunology
C - Waverly Press
P.O. Box 400, Prospect Heights, IL 60070, USA
D - J. IMMUN.
E - 0022-1767
F - En
G - 1994
I - 121

A - 217
B - Embo Journal
C - Oxford University
200 Madison Avenue, New York, NY, USA
D - J. EMBO
E - 0261-4189
F - En
G - 1994
I - 122

A - 218
B - Cell
C - Cell Press
D - CELL
E - 0092-8674
F - En
G - 1994
I - 123

A - 219
B - Popular Science
C - NeoData Services
D - POPULAR SC.
E - 0161-7370
F - En
G - 1994
I - 124

A - 220
B - Popular Mechanics
C - Communications Data Service
D - POPULAR MECH.
E - 0032-4558
F - En
G - 1994
I - 125

A - 221
B - Byte
C - McGraw-Hill, Inc.
McGraw-Hill Building, 1221 Avenue of the Americas, New York, NY 10020, USA
D - BYTE
E - 0360-5280
F - En
G - 1994
I - 126

A - 222
B - Biotechnology
C - Butterworths-Heinemann
80 Montvale Avenue, Stoneham, MA 02180, USA
D - BIOTECH.
E - ?
F - En
G - 1994
I - 127

A - 223
B - Plant Physiology
C - Waverly Press
P.O. Box 400, Prospect Heights, IL 60070, USA
D - PLANT PHYSIOL.
E - 0032-0889
F - En
G - 1994
I - 128

A - 224
B - Technische Rundschau
C - Hallwag AG
Nordring 4, CH-3001 Bern, Switzerland
D - TECHN. RUNDSCHAU
E - 0040-148X
F - De
G - 1994
I - 129

A - 225
B - Messen, Prüfen, Automatisieren
C - b-Quadrat Verlagsgesellschaft mbH
Kolpingstr. 46, D-86916 Kaufering, Germany
D - MESSEN, PRUEFEN, AUTOMATISIEREN
E - 0937-3446
F - De
G - 1994
I - 130

A - 226
B - VDI-Nachrichten
C - VDI-Verlag
Postfach 101054, D-40001 Düsseldorf, Germany
D - VDI-NACHR.
E - 0042-1758
F - De
G - 1994
I - 131

A - 227
B - Konstruktion
C - Springer Verlag
Heidelberger Platz 3, D-14197 Berlin, Germany
D - KONSTRUKTION
E - 0720-5953
F - De
G - 1994
I - 132

A - 228
B - Elektor
C - Elektor Verlag GmbH
Süsterfeldstr. 25, D-52072 Aachen, Germany
D - ELEKTOR
E - 0173-1696
F - De
G - 1994
I - 133

A - 229
B - Biotechnology Abstracts
C - Derwent Publ. Ltd.
Derwent House, 14 Great Queen Street, London WC2B 5DF,
United Kingdom
D - BIOTECHN. ABSTR.
E - 0262-5318
F - En
G - 1994
I - 134

A - 230
B - EDN (Electronic Technology for Engineers and Engineering Managers)
C - Cahners Publishing Company
275 Washington Street, Newton, MA 02158-1630, USA
D - EDN
E - 0012-7515
F - En
G - 1994
I - 135

[Appendix follows/
L'appendice suit]

APPENDIX/APPENDICE

PERIODICALS WHICH HAVE BEEN DELETED FROM THE ORIGINAL LIST,
INCLUDING THOSE FOR WHICH PUBLICATION HAS BEEN DISCONTINUED

PERIODIQUES SUPPRIMES DE LA LISTE INITIALE,
Y COMPRIS CEUX DONT LA PUBLICATION A CESSE

A - 002
B - Journal of the Acoustical Society of Japan, (Nippon Onkyo Gakkaishi)
E - 0369-4232
H - Deleted from the list from January 1, 1994

A - 004
B - Aerosol Age
E - 0001-9291
H - Deleted from the list from January 1, 1985

A - 006
B - Agricultural Machinery Journal
E - 0002-1539
H - Deleted from the list from January 1, 1985

A - 009
B - American Dyestuff Reporter
E - 0002-8266
H - Deleted from the list from January 1, 1993

A - 012
B - Annals of Nuclear Energy
E - 0306-4549
H - Deleted from the list from January 1, 1985

A - 015
B - ASEA Journal (ex-ASEA's Tidning)
E - 0001-2459
H - See periodical PCT identification number 201

A - 016
B - ATM und Messtechnische Praxis
E - 0340-4021
H - Deleted from the list from December 31, 1988

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page 2

A - 018
B - Automatic Welding or Avtomaticheskaya Svarka
E - 0005-108X/ 0005-111X
H - Deleted from the list from January 1, 1985

A - 019
B - Automation and Remote Control or Avtomatika i Telemekhanika
E - 0005-1179/ 0005-2310
H - Deleted from the list from January 1, 1985

A - 021
B - AT & T Bell Laboratories Record (ex-Bell Laboratories Record)
E - 0005-8564
H - Discontinued as of March 1986 (see also periodical PCT identification number 193)

A - 023
B - Brown-Boveri Review
E - 0007-2486
H - Deleted from the list from December 31, 1988

A - 024
B - Bulletin of the Academy of Sciences of the USSR: Physical Series
E - 0001-432X/ 0367-6755
H - Deleted from the list from January 1, 1985

A - 025
B - Bulletin of the Academy of Sciences of the USSR: Chemical Series
E - 0568-5230/ 0002-3353
H - Deleted from the list from January 1, 1985

A - 026
B - Bulletin SEV/VSE
E - 0036-1321
H - Deleted from the list from January 1, 1993

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- A - 030
B - Chemical Engineering of Japan, Journal of the Society
of Chemical Engineers
E - 0021-9592
H - Deleted from the list from January 1, 1993
- A - 034
B - Journal of the Chemical Society of Japan, (Nippon Kagaku Kaishi)
E - 0369-4577
H - Deleted from the list from January 1, 1994
- A - 036
B - Chemiker Zeitung
E - 0009-2894
H - Deleted from the list from January 1, 1993
- A - 039
B - CIBA-Geigy Review
E - 0366-5984
H - Discontinued as of January 1975
- A - 040
B - Civil Engineering
E - 0360-0556
H - Deleted from the list from December 31, 1988
- A - 042
B - Compressed Air
E - 0010-4426
H - Deleted from the list from January 1, 1985
- A - 043
B - Comptes-rendus des Séances de l'Académie des Sciences,
Series I-II-III
E - Series I: 0151-0509
Series II: 0567-6541
Series III: 0567-655X
H - Deleted from the list from January 1, 1993

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page 4

- A - 044
B - Control and Instrumentation
E - 0010-8022
H - Deleted from the list from January 1, 1993
- A - 046
B - Doklady - Chemistry
E - 0012-5088
H - Deleted from the list from January 1, 1985
- A - 052
B - Elektrotechnik und Maschinenbau
E - 0012-8058
H - Deleted from the list from December 31, 1988
- A - 053
B - Engineering
E - 0040-1056
H - Deleted from the list from December 31, 1988
- A - 054
B - Engineering Materials and Design
E - 0308-6917
H - Deleted from the list from December 31, 1988
- A - 055
B - ETZ (Elektrotechnische Zeitschrift)
E - 0170-1711
H - Deleted from the list from January 1, 1993
- A - 056
B - Fördern und Heben
E - 0373-6482
H - Deleted from the list from December 31, 1988
- A - 058
B - Giesserei
E - 0016-9765
H - Deleted from the list from January 1, 1993

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A - 059
B - Glass and Ceramics
E - 0361-7610
H - Deleted from the list from January 1, 1993

A - 060
B - Glastechnische Berichte
E - 0017-1085
H - Deleted from the list from December 31, 1988

A - 061
B - Heating, Piping & Air Conditioning
E - 0017-940X
H - Deleted from the list from January 1, 1993

A - 070
B - Automatic Control
E - 0018-9286
H - Deleted from the list from December 31, 1988

A - 076
B - IEEE - Transactions on Geoscience and Remote Sensing
(ex-Geoscience Electronics)
E - 0018-9413
H - Deleted from the list from January 1, 1993

A - 080
B - Power Apparatus and Systems
E - 0018-9510
H - As from January 1986, split into three parts - see
periodicals PCT identification numbers 190 to 192

A - 082
B - Industrial and Engineering Chemistry, Fundamentals
E - 0196-4313
H - Deleted from the list from January 1, 1985

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page 6

- A - 084
B - Industrial and Engineering Chemistry:
Product Research and Development
E - 0196-4321
H - Discontinued as of 1987
- A - 086
B - International Polymer Science and Technology
(ex-Soviet Rubber Technology) or Kauchuk i Rezina
E - 0307-174X/ 0022-9466
H - Deleted from the list from January 1, 1993
- A - 087
B - Nachrichten Elektronik und Telematik
(ex-Nachrichten Elektronik) (ex-Internationale
Elektronische Rundschau)
E - 0341-4035
H - Deleted from the list from December 31, 1988
- A - 088
B - Iron and Steel International
E - 0308-9142
H - Discontinued from vol.58 (1985), No.1
- A - 089
B - Journal of the Iron and Steel Institute of Japan,
(Tetsu-To-Hagané)
E - 0021-1575
H - Deleted from the list from January 1, 1994
- A - 093
B - Journal of Analytical Chemistry of the USSR or
Zhurnal Analiticheskoi Khimii
E - 0021-8766/ 0044-4502
H - Deleted from the list from January 1, 1993
- A - 094
B - Journal of Chemical Technology and Biotechnology
(ex-Journal of Chemical Technology and Biotechnology)
E - 0268-2575
H - Deleted from the list from January 1, 1993

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A - 099
B - Journal of Electron Microscopy
E - 0022-0744
H - Deleted from the list from January 1, 1993

A - 101
B - Polyhedron (ex-Journal of Inorganic and Nuclear Chemistry)
E - 0022-1902
H - Deleted from the list from January 1, 1985

A - 105
B - Journal of Physics: Part B - Atomic and Molecular Physics
E - 0022-3700
H - Deleted from the list from January 1, 1985

A - 109
B - Kautschuk & Gummi Kunststoffe
E - 0022-9520
H - Deleted from the list from January 1, 1993

A - 111
B - Linde Reports of Science & Technology
E - 0024-3728
H - Deleted from the list from January 1, 1985

A - 113
B - Machinery and Production Engineering
E - 0024-919X
H - Deleted from the list from December 31, 1988

A - 114(143)
B - Soviet Engineering Research (formerly Machines and Tooling,
and Russian Engineering Journal) or
Stanki i Instrumenty and Vestnik Mashinostroenia, Mashinostroenie
E - 0144-6622/ 0042-4633/ 0038-9811
H - Deleted from the list from January 1, 1993

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- A - 115
B - Measurement Techniques or Izmeritelnaya Tekhnika
E - 0543-1972/ 0368-1025
H - Deleted from the list from January 1, 1993
- A - 116
B - Melliande Textilberichte, International Textile Reports
(ex-Melliande Textilberichte International)
E - 0341-0781
H - Deleted from the list from January 1, 1993
- A - 118
B - Metal Science and Heat Treatment or
Metallovedenie i Termicheskaya Obrabotka Metallov
E - 0026-0673/ 0026-0819
H - Deleted from the list from January 1, 1993
- A - 119
B - Metallurgist (Metallurg)
E - 0026-0894/ 0026-0827
H - Deleted from the list from January 1, 1985
- A - 120
B - Metalworking Production
E - 0026-1033
H - Deleted from the list from December 31, 1988
- A - 121
B - Packaging (ex-Package Engineering) (ex-Modern Packaging)
E - 0746-3820
H - Deleted from the list from December 31, 1988
- A - 123
B - Nickel Topics (ex-Inco Nickel)
E - 0028-9736
H - Discontinued from vol.35 (1982)

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- A - 124
B - NTZ (Nachrichtentechnische Zeitschrift)
E - 0027-707X
H - Deleted from the list from January 1, 1993
- A - 125
B - Nuclear Engineering International
E - 0029-5507
H - Deleted from the list from January 1, 1993
- A - 128
B - Oyo Butsuri
E - 0369-8009
H - Deleted from the list from January 1, 1993
- A - 130
B - Philips Technical Review
E - 0031-7926
H - Discontinued as of January 1990
- A - 136
B - Power Farming
E - 0032-5988
H - Deleted from the list from December 31, 1988
- A - 137
B - Radio Engineering and Electronic Physics or
Radiotekhnika i Elektronika
E - 0033-7889/ 0033-8494
H - Deleted from the list from January 1, 1985
- A - 138
B - RCA Review
E - 0033-6831
H - Deleted from the list from January 1, 1993

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page 10

A - 140
B - Automatisierungstechnik (ex-Regelungstechnik)
E - 0340-434X
H - Deleted from the list from January 1, 1993

A - 142
B - Russian Chemical Reviews or Uspekhi Khimii
E - 0036-021X/ 0042-1308
H - Deleted from the list from January 1, 1985

A - 143
B - Russian Engineering Journal
H - Deleted from the list from January 1, 1993 (see also periodical PCT identification number 114)

A - 146
B - Siemens Review (Siemens Zeitschrift)
E - 0037-4709
H - Deleted from the list from January 1, 1985

A - 151
B - Soviet Atomic Energy or Atomnaya Energiya
E - 0038-531X/ 0004-7163
H - Deleted from the list from January 1, 1993

A - 152
B - Soviet Physics - Acoustics or Akusticheskii Zhurnal
E - 0038-562X/ 0320-7919
H - Deleted from the list from January 1, 1985

A - 153
B - Soviet Physics - Doklady
E - 0038-5689
H - Deleted from the list from January 1, 1985

A - 154
B - Soviet Physics - Solid State or Fizika Tverdogo Tela
E - 0038-5654/ 0367-3294
H - Deleted from the list from January 1, 1993

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- A - 155
B - Soviet Physics - Technical Physics
E - 0038-5662/ 0367-3294
H - Deleted from the list from January 1, 1985
- A - 161
B - Textil Praxis International
E - 0340-5028
H - Deleted from the list from January 1, 1993
- A - 162
B - Textile Manufacturer and Knitting World (ex-Textile Manufacturer)
E - 0040-5108
H - Deleted from the list from January 1, 1985
- A - 166
B - Westinghouse Engineer
E - 0043-4361
H - Discontinued as of January 1975
- A - 167
B - Wiggins Nickel Alloys
E - 0143-2737
H - Discontinued as of 1978
- A - 172
B - Automatic Control and Computer Science
E - 0146-4116
H - Deleted from the list from December 31, 1988
- A - 173
B - Coke and Chemistry - USSR or Koks i Khimia
E - 0010-0501/ 0023-2815
H - Deleted from the list from January 1, 1993.
- A - 174
B - Farbe und Lack
E - 0014-7699
H - Deleted from the list from January 1, 1993

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- A - 175
B - Fibre Chemistry or Khimicheskie Volokna
E - 0015-0541/ 0023-1118
H - Deleted from the list from January 1, 1993
- A - 176
B - Instruments and Experimental Techniques or
Pribory i Tekhnika Eksperimenta
E - 0020-4412/ 0032-8162
H - Deleted from the list from January 1, 1993
- A - 179
B - Oil and Gas Journal
E - 0030-1388
H - Deleted from the list from December 31, 1988
- A - 182
B - Solar Energy
E - 0038-092X
H - Deleted from the list from January 1, 1993
- A - 184
B - Soviet Physics - Uspekhi or Uspekhi Fizicheskikh Nauk
E - 0038-5670/ 0042-1294
H - Deleted from the list from January 1, 1993
- A - 186
B - Steel in the USSR or Stal and Izv.
E - 0038-9218/ 0038-920X
H - Deleted from the list from January 1, 1993
- A - 187
B - Telecommunications and Radio Engineering or
Radiotekhnika, Radio i Svyaz and
Elektrosvyaz, Radio i Svyaz
E - 0040-2508/ 0033-8486/ 0013-5771
H - Deleted from the list from January 1, 1993

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- A - 188
B - Welding Production or Svarochnoe Proizvodstvo
E - 0043-230X/ 0491-6441
H - Deleted from the list from January 1, 1989
- A - 190
B - IEEE - Transactions on Energy Conversion
(ex-periodical PCT Number 80, IEEE Transactions on
Power Apparatus and Systems)
E - 0885-8969
H - Deleted from the list from January 1, 1993
- A - 191
B - IEEE - Transactions on Power Delivery
(ex-periodical PCT Number 80, IEEE Transactions on
Power Apparatus and Systems)
E - 0885-8877
H - Deleted from the list from January 1, 1993
- A - 192
B - IEEE - Transactions on Power Systems
(ex-periodical PCT Number 80, IEEE Transactions on
Power Apparatus and Systems)
E - 0885-8950
H - Deleted from the list from January 1, 1993
- A - 193
B - AT&T Technology (ex-AT&T Bell Laboratories Record)
E - 0889-8979
H - Deleted from the list from December 31, 1988
- A - 194
B - Steel Times - Incorporating Iron & Steel
E - 0039-095X
H - Deleted from the list from January 1, 1993
- A - 200
B - Welding International
E - 0950-7116
H - Deleted from the list from January 1, 1993

- A - 201
- B - ABB Review (ABB Tidning)/ ex-ASEA Journal
- E - 1013-3119
- H - Deleted from the list from January 1, 1994

[Annex IV follows/
L'annexe IV suit]

PCT/CTC/XV/4
ANNEX IV/ANNEXE IV

JOPAL "distribution-of-work" list in numerical order of PCT periodicals/
Liste de répartition du JOPAL par ordre numérique
des périodiques du PCT

<u>PCT No./</u> <u>No.PCT</u>	<u>Title/Titre</u>	<u>Cooperating Office/</u> <u>Office participant</u>
001	Journal of the Acoustical Society of America	US
003	Acta Chemica Scandinavica	DE
005	Bioscience, Biotechnology and Biochemistry	EP
007	Journal of the American Ceramic Society	EP
008	Journal of the American Chemical Society	DE
010	Analytical Chemistry	DE
011	Angewandte Chemie	DE
013	Applied Optics	DE
014	Applied Physics Letters	DE
017	Automobiltechnische Zeitschrift (ATZ)	DE
020	Aviation Week and Space Technology	SE
022	A.T. & T. Technical Journal	RU
027	Chemical & Engineering News	AU
028	Chemical and Pharmaceutical Bulletin	JP
029	Chemical Engineering	EP
031	Chemical Reviews	DE
032	Journal of the Chemical Society (six sections)	EP
033	Bulletin of the Chemical Society of Japan	JP
035	Chemie-Ingenieur-Technik	DE
037	Chemische Berichte	DE
038	Chemistry and Industry	BR
041	Collection of Czechoslovak Chemical Communications	CZ
045	Control Engineering	AU
047	Electrical Communication	FR
048	Journal of the Electrochemical Society	DE
049	Electronic Design	RU
050	Electronic Engineering	DE
051	Electronics	RU
057	Funkschau	AT
062	IBM Journal of Research and Development	DE
063	IBM Technical Disclosure Bulletin	DE
064	IEEE Journal of Quantum Electronics	DE
065	IEEE Journal of Solid State Circuits	DE
066	Proceedings of the IEEE	DE
067	IEEE Spectrum	DE
	IEEE - Transactions on:	
068	-Aerospace and Electronic Systems	DE
069	-Signal Processing	DE
071	-Biomedical Engineering	DE
072	-Consumer Electronics	DE
073	-Communications	DE
074	-Computers	DE
075	-Electron Devices	DE
077	-Instrumentation and Measurement	DE
078	-Microwave Theory and Techniques	DE
079	-Components, Hybrids and Manufacturing Technology	DE
081	-Ultrasonics, Ferroelectrics and Frequency Control	DE
083	Industrial and Engineering Chemistry Research	EP
085	Transactions of the Institute of Electronics, Information and Communication Engineers	JP
090	Japanese Journal of Applied Physics	JP
091	Kobunshi Ronbunshu	JP
092	Journal of Agricultural and Food Chemistry	EP
095	Journal of Applied Chemistry of Russia	RU
096	Journal of Applied Physics	DE
097	Journal of Applied Polymer Science	DE
098	Journal of Chromatography	DE
100	Journal of General Chemistry of Russia	RU

JOPAL "distribution-of-work" list in numerical order of PCT periodicals/
Liste de répartition du JOPAL par ordre numérique
des périodiques du PCT

<u>PCT No./ No.PCT</u>	<u>Title/Titre</u>	<u>Cooperating Office/ Office participant</u>
102	JOM - Journal of Metals	AU
103	The Journal of Organic Chemistry	DE
104	Journal of Organometallic Chemistry	DE
106	Measurement Science & Technology	DE
107	Journal of Polymer Science	RU
108	Journal of the Royal Netherlands Chemical Society	DE
110	Kunststoffe	DE
112	Machine Design	AU
117	Metal Finishing	EP
122	Modern Plastics International	DE
126	Journal of the Optical Society of America	AU
127	Optics & Spectroscopy	RU
129	Philips Journal of Research	DE
131	Physical Review (A-B-C-D)	DE
132	Plastverarbeiter	DE
133	Playthings	EP
134	Polymer Science	RU
135	Power	US
139	Review of Scientific Instruments	RU
141	Rubber Chemistry and Technology	BR
144	Automotive Engineering	AU
145	Scientific American	AU
147	SMPTE Journal	US
148	SDC - Journal of the Society of Dyers and Colourists	AU
149	Solid State Electronics	AU
150	Solid State Technology	DE
156	Stahl und Eisen	DE
157	Steroids: Structure, Function and Regulation	DE
158	TAPPI Journal (ex-TAPPI)	EP
159	Tetrahedron	AU
160	Tetrahedron Letters	DE
163	Textile Research Journal	EP
164	VDI-Z / Zeitschrift für Integrierte Produktionstechnik	DE
165	Water Environment Research	DE
168	Electronics World	GB
169	Chemical Abstracts	--
170	Bulletin de la Société chimique de France	FR
171	L'Onde électrique	FR
177	Journal of Crystal Growth	BG
178	Journal of Organic Chemistry of Russia	RU
180	Optics Communications	BR
181	Radio Fernsehen Elektronik	DE
183	Semiconductors	RU
185	Soviet Technical Physics Letters	RU
189	Xerox Disclosure Journal	US
195	Nature	EP
196	Proceedings of the National Academy of Science of the United States of America	US
197	Gene	DE
198	Nucleic Acids Research	EP
199	Science	US
202	Electronic Letters	EP
203	Computer Design	EP
204	Elektronik	DE
205	IEEE Electron Device Letters	CA
206	Thin Solid Films	EP
207	Wescon Technical Papers	EP

JOPAL "distribution-of-work" list in numerical order of PCT periodicals/
Liste de répartition du JOPAL par ordre numérique
des périodiques du PCT

<u>PCT No./</u> <u>No.PCT</u>	<u>Title/Titre</u>	<u>Cooperating Office/</u> <u>Office participant</u>
208	IEEE - Transactions on Nuclear Science	CA
209	Journal of Biological Chemistry	EP
210	BBA Biochemica et Biophysica ACTA	RU
211	Biochemistry	CA
212	Cancer Research	EP
213	Methods in Enzymology	US
214	BBRC Biochemistry Biophysiology Research Community	US
215	Clinical Chemistry	EP
216	Journal of Immunology	EP
217	Embo Journal	EP
218	Cell	EP
219	Popular Science	CA
220	Popular Mechanics	US
221	Byte	GB
222	Biotechnology	CA
223	Plant Physiology	EP
224	Technische Rundschau	EP
225	Messen, Prüfen, Automatisieren	DE
226	VDI-Nachrichten	DE
227	Konstruktion	DE
228	Elektor	DE
229	Biotechnology Abstracts	US
230	EDN (Electronic Technology for Engineers and Engineering Managers)	EP

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