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## Notifications

### Patent Cooperation Treaty (PCT)

#### Accession

#### REPUBLIC OF KOREA

The Government of the Republic of Korea deposited, on May 10, 1984, its instrument of accession to the Patent Cooperation Treaty (PCT), done at Washington on June 19, 1970.

The said instrument contains the following reservation:

"The Republic of Korea declares, pursuant to Article 64, paragraph (1), of the said Treaty, that it is not bound by the provisions of Chapter II of the Treaty concerning international preliminary examination."

The said Treaty will enter into force, with respect to the Republic of Korea, on August 10, 1984.

PCT Notification No. 44, of May 14, 1984.

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### Budapest Treaty (Microorganisms)

#### Entry Into Force of Amendment to Article 10(7)(a)

The following amendment to the Budapest Treaty on the International Recognition of the Deposit of Microorganisms for the Purposes of Patent Procedure,

done at Budapest on April 28, 1977, entered into force on May 24, 1984:

— in Article 10(7)(a), "third" is replaced by "second."

This amendment affects the periodicity of the sessions of the Assembly of the Budapest Union.

The said amendment was unanimously adopted by the Assembly of the Budapest Union on September 26, 1980. At that time, the number of the Contracting States and hence the number of the members of the Assembly was five. Those States were Bulgaria, France, Hungary, Japan and the United States of America. The entry into force of the said amendment was brought about by the receipt by the Director General of notifications of acceptance of that amendment by the required number of Contracting States members of the said Assembly at the time the Assembly adopted that amendment, that is, from three-fourths of the five said member States. The required number of notifications is four. They were received, in chronological order, from the following States, the date of receipt being indicated after each State: Hungary (January 27, 1982), Bulgaria (March 18, 1982), United States of America (November 14, 1983), France (April 24, 1984).

According to the applicable provisions of the Budapest Treaty, the said amendment binds not only "all the Contracting States which were Contracting States at the time the amendment was adopted by the Assembly" (Article 14(3)(b)) but also "all States which become Contracting States after the date on which the amendment was adopted by the Assembly" (Article 14(3)(c)).

Budapest Notification No. 38, of April 30, 1984.

## World Intellectual Property Organization

### WIPO/Cooperation Council for the Arab States of the Gulf/ Saudi Arabian National Center for Science and Technology

#### Industrial Property Seminar for the Arab States of the Gulf

(Riyadh, May 7 to 9, 1984)

#### NOTE\*

The World Intellectual Property Organization assisted the Cooperation Council for the Arab States of the Gulf and the Saudi Arabian National Center for Science and Technology in the organization of an *Industrial Property Seminar* in the capital of the Kingdom of Saudi Arabia, Riyadh, from May 7 to 9, 1984.

The Cooperation Council for the Arab States of the Gulf was created on 21 Rajab 1401, corresponding to May 25, 1981, among the Kingdom of Saudi Arabia, the State of Bahrain, the State of Kuwait, the State of Qatar, the Sultanate of Oman and the United Arab Emirates "to effect coordination, integration and interconnection between member States in all fields in order to achieve unity between them" (Charter, Article 4). Among the objectives of the Council are to "formulate similar regulations in various fields including ... legislation and administrative affairs" and "to stimulate scientific and technological progress."

The Saudi Arabian National Center for Science and Technology was created at about the same time and is in full expansion. A big scientific documentation center, among many other things, is in the process of being constituted. The Saudi Arabian Patent Office is part of the Center.

The Seminar was opened by the Minister of Industry and Electricity of the Kingdom of Saudi Arabia, Mr.

El-Zamil, the Secretary General of the Cooperation Council for the Arab States of the Gulf, Ambassador Bishara, the Chairman of the Saudi Arabian National Center for Science and Technology, Dr. El-Adhel, and the Director General of WIPO, Dr. Arpad Bogisch.

Thirty persons coming from each of the above-mentioned countries participated in the Seminar.

The Seminar consisted of lectures, followed by discussions, given by Mr. Edward Armitage, former Comptroller-General of the United Kingdom Patent Office and present President of the International Association for the Protection of Industrial Property (AIPPI), Mr. Gerald J. Mossinghoff, Assistant Secretary of Commerce and Commissioner of Patents and Trademarks of the United States of America, Dr. Arpad Bogisch, Director General of WIPO, and Mr. Marino Porzio, Deputy Director General of WIPO. The lectures dealt with industrial property in general, the role of industrial property in development and transfer of technology, the administrative (governmental or regional) structures of industrial property and the licensing of patents and trademarks. Special attention was paid by all lecturers to worldwide and regional cooperation in the field of industrial property.

One participant from each of the six countries reported on the status of industrial property legislation and administration in his country.

On the last day of the meetings, the representatives of the six countries met among themselves to discuss the desirability of setting up a common patent system and recommended that, if the competent authorities of their governments found such a system desirable, it should be set up in the framework of the Cooperation Council for the Arab States of the Gulf and with the technical advice of WIPO.

In view of the extremely rapid and successful industrial development of the six countries and their important place in international transfer of technology and international trade, the establishment of modern and forward-looking institutions in the field of industrial property would be most beneficial and desirable both for the six countries and for the rest of the world.

\* Prepared by the International Bureau.

## WIPO Meetings

### Paris Union

#### I.

#### Diplomatic Conference on the Revision of the Paris Convention for the Protection of Industrial Property

Fourth Session  
(Geneva, February 27 to March 23, 1984)

#### NOTE\*

The fourth session of the Diplomatic Conference on the Revision of the Paris Convention for the Protection of Industrial Property took place in Geneva from February 27 to March 23, 1984.<sup>1</sup>

The said session was attended by 364 persons. Altogether, 92 countries were represented.

Among the 93 countries members of the Paris Union the following 69 were represented: Algeria, Argentina, Australia, Austria, Belgium, Brazil, Bulgaria, Cameroon, Canada, Central African Republic, Congo, Cuba, Czechoslovakia, Denmark, Dominican Republic, Egypt, Finland, France, Gabon, German Democratic Republic, Germany (Federal Republic of), Ghana, Greece, Holy See, Hungary, Indonesia, Iran (Islamic Republic of), Iraq, Ireland, Israel, Italy, Ivory Coast, Japan, Lebanon, Libya, Liechtenstein, Luxembourg, Madagascar, Mexico, Monaco, Morocco, Netherlands, New Zealand, Nigeria, Norway, Philippines, Poland, Portugal, Republic of Korea, Romania, Senegal, Soviet Union, Spain, Sri Lanka, Sudan, Sweden, Switzerland, Syria, Trinidad and Tobago, Tunisia, Turkey, Uganda, United Kingdom, United Republic of Tanzania, United States of America, Uruguay, Viet Nam, Yugoslavia, Zaire.

The following countries represented are not members of the Paris Union but members of WIPO: Byelorussian SSR, Chile, China, Colombia, El Salvador, Guatemala, Honduras, India, Jamaica, Mongolia, Pakistan, Panama, Peru, Qatar, Saudi Arabia, Somalia, Ukrainian SSR, Yemen [18].

\* Prepared by the International Bureau.

<sup>1</sup> For the Notes on the first, second and third sessions, see *Industrial Property*, 1980, p. 144; 1981, p. 309; 1983, p. 100, respectively.

The following countries represented are members of the United Nations but are not members either of the Paris Union or of WIPO: Angola, Bolivia, Democratic Yemen, Ecuador, Venezuela [5].

Ten intergovernmental organizations and 10 international non-governmental organizations were represented by observers.

The list of participants appears at the end of this Note.

The following main officers of the Conference continued in their functions during the fourth session: the President of the Conference, Ambassador A. Sène (Senegal); the Chairman of Main Committee I, Ambassador F. Jiménez Dávila (Argentina); the Chairman of Main Committee II, Dr. Gy. Pusztai (Hungary); the Chairman of Main Committee III, Commissioner G.J. Mossinghoff (United States of America).

The Plenary of the Conference proceeded to the election of officers to vacant posts of officers. Among the nine posts of Vice-President of the Conference, six were vacant, and they were filled by Mr. D.S. McCracken (Canada), Ambassador K. Chiba (Japan), Mr. F.J. Cruz González (Mexico), Mr. J.J. Bos (Netherlands), Mr. C. Fernández Ballesteros (Uruguay), and Mr. D. Čemalović (Yugoslavia). Among the two posts of Vice-Chairman for Main Committee I, one was vacant and was filled by Mr. T. Kivi-Koskinen (Finland). Both posts of Vice-Chairman of Main Committee II were vacant, and they were filled by Mr. C.H. Friemann (Australia) and Mr. T.C. Choi (Republic of Korea). Among the two posts of Vice-Chairman of Main Committee III, one was vacant and was filled by Ambassador H.J. Brillantes (Philippines). A vacant post in the composition of the Credentials Committee was filled by Ghana (replacing Kenya). The Credentials Committee elected a new Chairman in the person of Mr. A. McCarthy (Ghana). The Drafting Committee elected a new Chairman in the person of Mr. J.-C. Combaldieu (France), and a new Vice-Chairman in the person of Mr. B. Saci (Algeria).

During the fourth session, the Plenary of the Conference held four meetings, Main Committee I held seven meetings, and Main Committee II held six meetings. All three Regional Groups held one or more meetings on almost every one of the working days of the fourth session. The following delegates were the Spokesmen of the three Groups: Mr. E.E.E. Mtango (United Republic of Tanzania) for the Group of Developing Countries; Mrs. E. Steup (Federal Republic of Germany) for Group B (industrialized market economy

countries); Mr. I. Nayashkov (Soviet Union) for Group D (Socialist countries).

In order to discuss Article 5A (which deals with compulsory licenses and with forfeiture of patents) of the Paris Convention and other provisions concerning patents, Main Committee I set up a Working Group on Questions Relating to Patents composed of the members of seven delegations from each Regional Group. All delegations were admitted to follow the discussions in the Working Group. The Working Group held five meetings and was chaired by the Chairman of Main Committee I, Ambassador F. Jiménez Dávila (Argentina). Following the discussions in the Working Group, Main Committee I continued its debates on Article 5A. Certain ideas were put forward by the Group of Developing Countries for consideration by the other Groups, but no new proposals for amendment were made by any of the Delegations and no agreement on Article 5A could be reached.

The meetings devoted to Article 10<sup>quater</sup> of the Paris Convention, which concerns geographical indications and trademarks, were presided over by Mr. T. Kivi-Koskinen (Finland), First Vice-Chairman of Main Committee I, in accordance with an agreement reached in the first session of the Diplomatic Conference (Geneva, 1980), according to which the questions concerning appellations of origin would be discussed under the chairmanship of that Vice-Chairman of Main Committee I who is a delegate from a Group B country. During those meetings, a proposal made by 23 delegations of Group B was intensively discussed. However, it was neither rejected nor adopted by Main Committee I.

Main Committee II discussed two new documents containing proposals concerning the definition of patents and inventors' certificates to be inserted in Article 1 of the Paris Convention. None of the proposals were rejected or adopted by Main Committee II, but they were the subject of thorough discussions.

In its meeting on March 23, 1984, and on the proposal of the Spokesmen of the three Regional Groups, the Plenary of the Conference adopted the following resolution:

"1. The Diplomatic Conference on the Revision of the Paris Convention for the Protection of Industrial Property, in its meeting held at Geneva on March 23, 1984, recommends to the Assembly of the Paris Union for the Protection of Industrial Property that it convene, in what will be its fifth session, the Diplomatic Conference, as soon as it finds prospects for positive results.

"2. The countries participating in the Diplomatic Conference ask for the convocation, in September 1984, of an extraordinary session of the Assembly of the Paris Union to consider the setting up of a machinery for consultations designed to prepare, on substance, the next session of the Diplomatic Conference."

## LIST OF PARTICIPANTS

### I. States

#### ALGERIA<sup>1</sup>

##### *Head of the Delegation*

B. Ould-Rouis, Ambassadeur, Représentant permanent, Mission permanente, Genève

##### *Alternate Heads of the Delegation*

B. Saci, Ministre plénipotentiaire, Représentant permanent adjoint, Mission permanente, Genève

H. Redouane, Directeur des relations économiques internationales, Ministère des affaires étrangères, Alger

##### *Delegate*

A.-R. Bendisari, Attaché, Mission permanente, Genève

#### ANGOLA

##### *Head of the Delegation*

A.A. Dos Santos Sousa, Directeur, Secrétariat d'Etat à la culture, Institut national de la propriété intellectuelle, Luanda

##### *Delegate*

M.L. Delgado, Expert technique, Institut national de la propriété intellectuelle, Luanda

#### ARGENTINA<sup>1</sup>

##### *Head of the Delegation*

F. Jiménez Dávila, Embajador, Representante Permanente Adjunto, Misión Permanente, Ginebra

##### *Delegate*

J. Pereira, Segundo Secretario, Misión Permanente, Ginebra

#### AUSTRALIA<sup>1</sup>

##### *Head of the Delegation*

D.M. Sadlier, Ambassador, Permanent Representative, Permanent Mission, Geneva

##### *Alternate Head of the Delegation*

C.H. Friemann, Deputy Commissioner of Patents, Deputy Registrar of Patents, Trade Marks and Designs Office, Department of Science and Technology, Canberra

##### *Delegates*

G.D. Carmichael, Assistant Commissioner (Policy), Patent, Trade Marks and Designs Office, Department of Science and Technology, Canberra

N.D. Campbell, First Secretary, Permanent Mission, Geneva

##### *Advisor*

D.W. Berryman, President, Australian Manufacturers Patents, Industrial Designs, Copyright and Trade Marks Association, Melbourne

#### AUSTRIA<sup>1</sup>

##### *Head of the Delegation*

O. Leberl, President, Austrian Patent Office, Director General, Industrial Property Department, Federal Ministry of Commerce, Trade and Industry, Vienna

##### *Deputy Head of the Delegation*

G. Mayer-Dolliner, Hofrat, Industrial Property Department, Federal Ministry of Commerce, Trade and Industry, Vienna

##### *Delegates*

E. Kubesch, First Secretary, Permanent Mission, Geneva

F. Trauttmansdorff, First Secretary, Permanent Mission, Geneva

H. Sonn, Vice-President, Austrian Chamber of Patent Attorneys, Vienna

<sup>1</sup> Member of the Paris Union.

<sup>2</sup> Member of WIPO but not of the Paris Union.

BELGIUM<sup>1</sup>*Head of the Delegation*

A. Onkelinx, Ambassadeur, Représentant permanent, Mission permanente, Genève

*Alternate Head of the Delegation*

J.M. Poswick, Conseiller, Mission permanente, Genève

*Advisors*

D.M.C. Vanderghyest, Secrétaire d'administration, Service de la propriété industrielle et commerciale, Ministère des affaires économiques, Bruxelles

F. Gevers, Président du Conseil supérieur de la propriété industrielle, Bruxelles

M. Chomé, Membre du Conseil supérieur de la propriété industrielle, Bruxelles

P. Theunis, Ingénieur, Expert auprès du Conseil supérieur de la propriété industrielle, Bruxelles

## BOLIVIA

*Delegate*

E. Rivera Claussen, Primer Secretario, Misión Permanente, Ginebra

BRAZIL<sup>1</sup>*Head of the Delegation*

A. Gurgel de Alencar, Minister Counsellor, Deputy Permanent Representative, Permanent Mission, Geneva

*Delegates*

E. Cordeiro, First Secretary, Permanent Mission, Geneva

M.F. Cruz Filho, Advisor, National Institute of Industrial Property (INPI), Ministry of Industry and Trade, Rio de Janeiro

P. Franca, Third Secretary, Permanent Mission, Geneva

BULGARIA<sup>1</sup>*Head of the Delegation*

K. Iliev, Directeur général, Institut des inventions et des rationalisations, Sofia

*Alternate Head of the Delegation*

D. Popov, Ministre plénipotentiaire, Ministère des affaires étrangères, Sofia

*Delegates*

B. Bojinov, Directeur, Chambre de commerce et de l'industrie, Sofia

O. Delev, Deuxième secrétaire, Mission permanente, Genève

S. Boyadjieva, Expert, Ministère des affaires étrangères, Sofia

BYELORUSSIAN SOVIET SOCIALIST REPUBLIC<sup>2</sup>*Head of the Delegation*

V.V. Grckov, Permanent Representative, Permanent Mission, Geneva

CAMEROON<sup>1</sup>*Head of the Delegation*

D. Yong, Représentant permanent adjoint, Mission permanente, Genève

*Delegate*

W. Eyambe, Deuxième secrétaire, Mission permanente, Genève

CANADA<sup>1</sup>*Head of the Delegation*

J.A. Beesley, Ambassador, Permanent Representative, Permanent Mission, Geneva

*Alternate Head of the Delegation*

D.S. McCracken, Director General, Policy Research, Analysis and Liaison Directorate, Department of Consumer and Corporate Affairs, Ottawa

*Delegates*

R. Thèberge, Counsellor, Policy Research, Analysis and Liaison Directorate, Department of Consumer and Corporate Affairs, Ottawa

J. Butler, Special Advisor, Policy Research, Analysis and Liaison Directorate, Department of Consumer and Corporate Affairs, Ottawa

R. Ballhorn, Desk Officer, Economic Law and Treaty Division, Department of External Affairs, Ottawa

P.A. Van Brakel, Intellectual Property Officer, International Financial and Investment Affairs Division, Department of External Affairs, Ottawa

J. Lynch, First Secretary, Permanent Mission, Geneva

*Advisors*

J. Osborne, Counsel, Gowling and Henderson, Barristers and Solicitors, Ottawa

D.A. Hill, Counsel, Smart and Biggar, Ottawa

CENTRAL AFRICAN REPUBLIC<sup>1</sup>*Head of the Delegation*

N. Kombot-Naguemon, Ambassadeur, Représentant permanent, Mission permanente, Genève

*Advisor*

L. Yagao-Ngama, Premier conseiller, Mission permanente, Genève

CHILE<sup>2</sup>*Delegate*

F. Pérez Walker, Consejero, Misión Permanente, Ginebra

*Alternate Delegate*

P. Barros, Primer Secretario, Misión Permanente, Ginebra

CHINA<sup>2</sup>*Head of the Delegation*

Tang Zongshun, Adviser to the Patent Office, Patent Office, Beijing

*Delegates*

Liu Fengyun, Deputy Director, International Cooperation Division, Patent Office, Beijing

Huang Renxun, Expert, Trade Mark Office, State Administration for Industry and Commerce, Beijing

COLOMBIA<sup>2</sup>*Head of the Delegation*

H. Charry Samper, Embajador, Representante Permanente, Misión Permanente, Ginebra

*Alternate Heads*

I. Botero, Primer Secretario, Misión Permanente, Ginebra

L.A. Luna, Primer Secretario, Misión Permanente, Ginebra

CONGO<sup>1</sup>*Head of the Delegation*

A. Gabou, Procureur général près la Cour suprême et Conseiller du Ministre de la coopération, Brazzaville

*Alternate Head of the Delegation*

E.F. Loukakou, Directeur, Affaires juridiques et consulaires, Ministère des affaires étrangères, Brazzaville

*Delegates*

D. Ngassaki, Chef de l'Antenne nationale de la propriété industrielle, Ministère de l'industrie et de la pêche, Brazzaville

J.-P. Miamona, Fonctionnaire au Ministère de la coopération, Brazzaville

S. Bayalama, Chef de la Section des questions juridiques, Ministère des affaires étrangères, Brazzaville

CUBA<sup>1</sup>*Head of the Delegation*

C. Lechuga Hevia, Embajador, Representante Permanente, Misión Permanente, Ginebra

*Delegates*

M. Jimenez Aday, Agregado (Asuntos Científicos y Técnicos), Misión Permanente, Ginebra  
 A. Roca Garcíarena, Vice-Director, Oficina Nacional de Invenções, Información Técnica y Marcas, La Habana

CZECHOSLAVAKIA<sup>1</sup>*Head of the Delegation*

M. Bělohávek, President, Office for Inventions and Discoveries, Prague

*Alternate Head of the Delegation*

J. Prošek, Head of the Trademarks Department, Office for Inventions and Discoveries, Prague

*Delegate*

V. Benisko, Head of External Relations Department, Office for Inventions and Discoveries, Prague

## DEMOCRATIC YEMEN

*Head of the Delegation*

S.A.S. Fares, Minister Plenipotentiary, Permanent Mission, Geneva

DENMARK<sup>1</sup>*Head of the Delegation*

R. Carlsen, Registrar of Trademarks, Patent and Trademark Office, Ministry of Commerce, Copenhagen

*Delegate*

L. Østerborg, Head of Division, Patent and Trademark Office, Ministry of Commerce, Copenhagen

DOMINICAN REPUBLIC<sup>1</sup>*Head of the Delegation*

T. Mejía-Ricart Guzman, Embajador, Representante Permanente, Misión Permanente, Ginebra

*Delegates*

M. Alfonseca Bursztejn-Lavigne, Ministro Consejero, Misión Permanente, Ginebra

A. Bonetti Herrera, Primera Secretaria, Misión Permanente, Ginebra

## ECUADOR

*Head of the Delegation*

M. Aleman Salvador, Embajador, Representante Permanente, Misión Permanente, Ginebra

*Alternate Head of the Delegation*

G. Ortiz, Diputado/Vocal Principal, Palacio Legislativo, Quito

EGYPT<sup>1</sup>*Head of the Delegation*

F. El Ibrashi, Ambassador, Ministry of Foreign Affairs, Cairo

*Alternate Head of the Delegation*

A.A. Omar, Under-Secretary, Academy of Scientific Research and Technology, President, Patent Office, Cairo

*Delegates*

I.F. Salem, President, Commercial Registration Organization, Cairo

M. Daghsh, Counsellor, Permanent Mission, Geneva

A.G.M. Fouad, Director, Industrial Property Affairs, Commercial Registration Organization, Cairo

EL SALVADOR<sup>2</sup>*Head of the Delegation*

J.L. Lovo Castelar, Embajador, Representante Permanente, Misión Permanente, Ginebra

*Delegate*

C.A. Barahona Rivas, Secretario, Misión Permanente, Ginebra

FINLAND<sup>1</sup>*Head of the Delegation*

E. Kekomaki, Ambassador, Director for Legal Affairs, Ministry of Foreign Affairs, Helsinki

*Deputy Head of the Delegation*

T. Kivi-Koskinen, Director General, National Board of Patents and Registration, Helsinki

*Delegate*

E. Wuori, Deputy Director General, National Board of Patents and Registration, Helsinki

*Advisors*

K. Ilander, Second Secretary, Permanent Mission, Geneva

L. Valjento, Attaché, Ministry of Foreign Affairs, Helsinki

S. Henriksson, Head of Legal Department, Confederation of Finnish Industries, Helsinki

FRANCE<sup>1</sup>*Head of the Delegation*

R. de Souza, Ambassadeur, Représentant permanent, Mission permanente, Genève

*Alternate Head of the Delegation*

J.-C. Combaldieu, Directeur du Service et de l'Institut national de la propriété industrielle, Ministère de l'Industrie et de la recherche, Paris

*Delegates*

M. Hiance, Directeur-adjoint chargé des affaires internationales, Institut national de la propriété industrielle, Paris

P. David, Magistrat, Direction des affaires civiles et du scea, Ministère de la justice, Paris

R. Tinlot, Inspecteur général, Direction de la consommation et de la répression des fraudes, Ministère de la consommation, Paris

J.-M. Mornal, Deuxième conseiller, Mission permanente, Genève

L. Nicodème, Secrétaire-adjoint principal des affaires étrangères, Direction des affaires économiques et financières, Ministère des relations extérieures, Paris

J. Chavant, Attaché, Mission Permanente, Genève

*Advisor*

A. Françon, Professeur, Université de Paris II, Membre du Conseil Supérieur de la propriété industrielle, Paris

GABON<sup>1</sup>*Head of the Delegation*

J.-R. Odzaga, Ambassadeur, Représentant permanent, Mission permanente, Genève

GERMAN DEMOCRATIC REPUBLIC<sup>1</sup>*Head of the Delegation*

J. Hemmerling, President, Office for Inventions and Patents, Berlin

*Deputy Head of the Delegation*

D. Schack, Director, Department of International Cooperation, Office for Inventions and Patents, Berlin

*Delegates*

F. Jonkisch, Director, Legal Affairs Department, Office for Inventions and Patents, Berlin

M. Förster, Interpreter, Office for Inventions and Patents, Berlin

GERMANY (FEDERAL REPUBLIC OF)<sup>1</sup>*Head of the Delegation*

H. Arnold, Ambassador, Permanent Representative, Permanent Mission, Geneva

*Alternate Head of the Delegation*

E. Steup, Head of Division, Federal Ministry of Justice, Bonn

*Delegates*

M. Aúz Castro, Judge, Federal Patent Court, Munich

F. Lambach, First Counsellor, Permanent Mission, Geneva

*Advisors*

G. Albrechtskirchinger, Lawyer, Frankfurt/Main  
 H. Bezzenberger, Chairman, Industrial Property Committee, Association of German Industry, Director, Hoechst AG, Glashütten  
 K.J. Heimbach, Director of Patents, Bayer AG, Leverkusen

GHANA<sup>1</sup>*Head of the Delegation*

A.J. McCarthy, Counsellor, Acting Permanent Representative, Permanent Mission, Geneva

GREECE<sup>1</sup>*Head of the Delegation*

P. Apostolides, First Counsellor, Permanent Mission, Geneva

*Delegates*

A. Cambitsis, Counsellor (Economic Affairs), Permanent Mission, Geneva

I. Rokas, Counsellor, Ministry of Research and Technology, Athens

*Advisor*

A. Argyriadis, Professor, University of Athens, Athens

GUATEMALA<sup>2</sup>*Head of the Delegation*

A. Fajardo-Maldonado, Embajador, Representante Permanente, Misión Permanente, Ginebra

*Delegates*

A.I. Pinillos-Schaeffer, Ministro Consejero, Misión Permanente, Ginebra

B. Deger-Battaglia, Consejero (Asuntos Económicos), Misión Permanente, Ginebra

HOLY SEE<sup>1</sup>*Head of the Delegation*

O. Rouillet, Avocat, Genève

*Delegate*

A. Marcell, Expert, Mission permanente, Genève

HONDURAS<sup>2</sup>*Head of the Delegation*

I. Romero M., Embajador, Representante Permanente, Misión Permanente, Ginebra

*Delegate*

N.W. Atala, Agregado Comercial, Misión Permanente, Ginebra

HUNGARY<sup>1</sup>*Head of the Delegation*

Gy. Pusztai, Président, Office national des inventions, Budapest

*Delegates*

J. Bobrovsky, Directeur général, Office national des inventions, Budapest

L. Mohácsy, Directeur général, Commission nationale pour le développement technique, Budapest

G. Bánrévy, Directeur général adjoint, Ministère du commerce extérieur, Budapest

J. Gehér, Rapporteur en chef, Ministère de la justice, Budapest

G. Szénási, Deuxième secrétaire, Ministère des affaires étrangères, Budapest

INDIA<sup>2</sup>*Head of the Delegation*

R.N. Chopra, Additional Secretary, Ministry of Industry, New Delhi

*Delegates*

P.R. Chandran, Director, Department of Industrial Development, Ministry of Industry, New Delhi

L. Puri, First Secretary, Permanent Mission, Geneva

INDONESIA<sup>1</sup>*Head of the Delegation*

I. Darsa, Ambassador, Permanent Representative, Permanent Mission, Geneva

*Deputy Head of the Delegation*

H.S. Suradimadja, Director, Directorate of Patents and Copyright, General Directorate of Law and Legislation, Department of Justice, Jakarta

*Delegates*

N. Wisnoemoerti, Counsellor, Permanent Mission, Geneva

R. Tanzil, Third Secretary, Permanent Mission, Geneva

A. Tambunan, Official, Department of Foreign Affairs, Jakarta

IRAN (ISLAMIC REPUBLIC OF)<sup>1</sup>*Head of the Delegation*

H. Bozorgh Khan, Directeur général, Département des relations internationales, Ministère de l'industrie, Téhéran

*Delegates*

S. Mohammad Hashemi, Conseiller, Ministère de l'industrie, Téhéran

J. Zahimia, Troisième secrétaire, Mission permanente, Genève

IRAQ<sup>1</sup>*Head of the Delegation*

I.A. Mahboub, Minister Plenipotentiary, Chargé d'affaires a.i., Permanent Mission, Geneva

*Deputy Heads of the Delegation*

N.H.S. Al-Badran, Minister Plenipotentiary, Permanent Mission, Geneva

A. Jomard, First Secretary, Permanent Mission, Geneva

*Delegate*

S. Abbas Lafta, Attaché, Permanent Mission, Geneva

IRELAND<sup>1</sup>*Head of the Delegation*

S. Fitzpatrick, Controller of Patents, Designs and Trade Marks, Patents Office, Dublin

*Deputy Heads of the Delegation*

B. O'Gorman, Assistant Principal, Patents Office, Dublin

M. Kennedy, Assistant Principal, Patents Office, Dublin

ISRAEL<sup>1</sup>*Head of the Delegation*

E.F. Haran, Ambassador, Deputy Permanent Representative, Permanent Mission, Geneva

*Delegate*

M.M. Shaton, Counsellor (Economic Affairs), Permanent Mission, Geneva

ITALY<sup>1</sup>*Head of the Delegation*

G.L. Milesi-Ferretti, Ambassadeur, Délégué pour les Accords de propriété intellectuelle, Ministère des affaires étrangères, Rome

*Alternate Head of the Delegation*

M. Scialoja, Ministre Conseiller, Représentant permanent adjoint, Mission permanente, Genève

*Delegates*

S. Samperi, Directeur, Office central des brevets, Ministère de l'industrie, du commerce et de l'artisanat, Rome

L. Vannuccini, Primo Dirigente, Office central des brevets, Ministère de l'industrie, du commerce et de l'artisanat, Rome

R. Boros, Conseiller juridique, Direction générale, Programmation et développement, Ministère des participations d'Etat, Rome

*Advisors*

- L. Sordelli, Professeur ordinaire de l'Université de Sienne, Président du Groupe italien de l'Association internationale pour la protection de la propriété industrielle (AIPPI), Milan
- L. Ferrari Bravo, Conseiller juridique, Mission permanente, Genève
- C. Fiammenghi, Avocat, Secrétaire du Collège italien des consultants en propriété industrielle et Membre du Groupe italien de l'Association internationale pour la protection de la propriété industrielle (AIPPI), Rome
- G. d'Amely Melodia, Conseil en propriété industrielle, Confédération de l'industrie, Rome
- M. Bellenghi, Expert, Conseil en propriété industrielle, Confédération de l'industrie, Rome

IVORY COAST<sup>1</sup>*Head of the Delegation*

- A. Traore, Ambassadeur, Représentant permanent, Mission permanente, Genève

*Delegates*

- M. Komenan, Chef, Division des études d'échange de technologie, Ministère de l'industrie, Abidjan
- F.K. Ekra, Conseiller, Mission permanente, Genève

JAMAICA<sup>2</sup>*Head of the Delegation*

- K.G.A. Hill, Ambassador, Permanent Representative, Permanent Mission, Geneva

JAPAN<sup>1</sup>*Head of the Delegation*

- K. Chiba, Ambassador, Permanent Representative, Permanent Mission, Geneva

*Alternate Delegates*

- Y. Hashimoto, Director General, Industrial Property Training Institute, Patent Office, Tokyo
- T. Sato, Counsellor, Permanent Mission, Geneva
- H. Sato, Counsellor, Permanent Mission, Geneva
- T. Fukuda, Counsellor for Legal Affairs, General and Administration Department, Patent Office, Tokyo
- S. Ono, First Secretary, Permanent Mission, Geneva

*Advisors*

- K. Shimizu, Staff Member, Japan Trade Center, Dusseldorf
- T. Okabe, General Manager, Patent and Licensing Department, Nippondenso Co., Ltd., Nagoya
- Z. Nakamura, Manager, Foreign Patent Affairs, Takeda Chemical Industries, Ltd., Osaka

LEBANON<sup>1</sup>*Head of the Delegation*

- I. Kharma, Ambassadeur, Représentant permanent, Mission permanente, Genève

*Deputy Head of the Delegation*

- H. Dimachkie, Premier secrétaire, Représentant permanent adjoint, Mission permanente, Genève

*Delegate*

- N. Fattal, Secrétaire, Mission permanente, Genève

LIBYA<sup>1</sup>*Head of the Delegation*

- M. Zayed, General Director, Secretariat for Economy and Light Industries, Tripoli

*Delegate*

- A. Wahed, Head, Patent Section, Secretariat for Economy and Light Industries, Tripoli

LIECHTENSTEIN<sup>1</sup>*Head of the Delegation*

- R. Marxer, Chef de l'Office pour les relations internationales, Vaduz

*Alternate Head of the Delegation*

- D. Ospelt, Chef suppléant de l'Office pour les relations internationales, Vaduz

LUXEMBOURG<sup>1</sup>*Head of the Delegation*

- J.-L. Wolzfeld, Conseiller, Représentant permanent adjoint, Mission permanente, Genève

*Delegate*

- F. Schlessler, Inspecteur principal, Service de la propriété industrielle, Ministère de l'économie et des classes moyennes, Luxembourg

MADAGASCAR<sup>1</sup>*Delegates*

- S. Rabearivelo, Premier conseiller, Mission permanente, Genève
- O. Raveloson, Premier secrétaire, Mission permanente, Genève

MEXICO<sup>1</sup>*Head of the Delegation*

- F.J. Cruz González, Consejero, Misión Permanente, Ginebra

*Delegate*

- J. de Villafranca Andrade, Director General de Invencciones y Marcas, Secretaria de Comercio y Fomento Industrial, México

MONACO<sup>1</sup>*Head of the Delegation*

- E. Franzi, Directeur général, Département des finances et de l'économie, Ministère d'Etat, Monaco

MONGOLIA<sup>2</sup>*Delegate*

- S.-O. Bold, Third Secretary, Permanent Mission, Geneva

MOROCCO<sup>1</sup>*Head of the Delegation*

- A. Skalli, Ambassadeur, Représentant permanent, Mission permanente, Genève

*Delegates*

- M. Halfaoui, Deuxième secrétaire, Mission permanente, Genève
- A. Bellouki, Deuxième secrétaire, Mission permanente, Genève

NETHERLANDS<sup>1</sup>*Head of the Delegation*

- J.J. Bos, President, Patent Office, Rijswijk

*Deputy Head of the Delegation*

- W. Neervoort, Member of the Patent Council, Patent Office, Rijswijk

*Delegates*

- H.J. Heinemann, Minister, Deputy Permanent Representative, Permanent Mission, Geneva
- H.J.G. Pieters, Advisor on Industrial Property Matters, Legislation and Other Legal Affairs Department, Ministry of Economic Affairs, The Hague

*Advisor*

- D. Hijmans, Patent Agent, Rijswijk

NEW ZEALAND<sup>1</sup>*Head of the Delegation*

D.F. Kininmonth, Director, Trade Policy, Department of Trade and Industry, Wellington

*Delegate*

B.T. Lineham, Counsellor, Deputy Permanent Representative, Permanent Mission, Geneva

NIGERIA<sup>1</sup>*Delegate*

T.O. Oseni, First Secretary (Economic Affairs), Permanent Mission, Geneva

NORWAY<sup>1</sup>*Head of the Delegation*

A.G. Gerhardsen, Director General, Norwegian Patent Office, Oslo

*Alternate Head of the Delegation*

M. Ruud, Head of Division, Ministry of Justice, Oslo

*Delegates*

K.H. Reinskou, Counsellor, Ministry of Justice, Oslo

P.F. Wille, Counsellor, Ministry of Foreign Affairs, Oslo

P.A. Martinsen, Counsellor, Norwegian Patent Office, Oslo

PAKISTAN<sup>2</sup>*Head of the Delegation*

R. Mahdi, Counsellor, Permanent Mission, Geneva

*Delegate*

S. Bashir, Second Secretary, Permanent Mission, Geneva

PANAMA<sup>2</sup>*Head of the Delegation*

J.A. Medrano Valderrama, Embajador, Representante Permanente, Misión Permanente, Ginebra

*Delegate*

R.M. Decerega, Consejero, Representante Permanente Alterno, Misión Permanente, Ginebra

PERU<sup>2</sup>*Head of the Delegation*

R. Villaran Koechlin, Embajador, Representante Permanente, Misión Permanente, Ginebra

*Delegate*

A. Thornberry, Segundo Secretario, Misión Permanente, Ginebra

PHILIPPINES<sup>1</sup>*Head of the Delegation*

H.J. Brillantes, Ambassador, Permanent Representative, Permanent Mission, Geneva

*Deputy Head of the Delegation*

T. Syquia, Ambassador, Deputy Permanent Representative, Permanent Mission, Geneva

*Delegate*

A.L. Catubig, Attaché, Permanent Mission, Geneva

POLAND<sup>1</sup>*Head of the Delegation*

J. Szomański, Président de l'Office des brevets, Varsovie

*Deputy Heads of the Delegation*

R. Farfal, Président adjoint de l'Office des brevets, Varsovie

J. Zawalonka, Conseiller, Ministre plénipotentiaire, Représentant permanent adjoint, Mission permanente, Genève

*Delegates*

D. Januszkiewicz, Directeur du Cabinet du Président de l'Office des brevets, Varsovie

P. Matuszewski, Conseiller, Département juridique et des traités, Ministère des affaires étrangères, Varsovie

PORTUGAL<sup>1</sup>*Head of the Delegation*

F. Reino, Ambassadeur, Représentant permanent, Mission permanente, Genève

*Deputy Head of the Delegation*

J. Mota Maia, Directeur général, Institut national de la propriété industrielle, Ministère de l'industrie et de l'énergie, Lisbonne

*Delegates*

R.A. Costa de Morais Serrão, Directeur, Service des marques, Institut national de la propriété industrielle, Ministère de l'industrie et de l'énergie, Lisbonne

J. Pereira da Cruz, Agent officiel de la propriété industrielle, Lisbonne

QATAR<sup>2</sup>*Head of the Delegation*

M.S.R. Al-Kuwari, Ambassadeur, Représentant permanent, Mission permanente, Genève

*Delegate*

A. Al-Gattari, Troisième secrétaire, Mission permanente, Genève

*Advisor*

M.A.A. Khalil, Economiste, Mission permanente, Genève

REPUBLIC OF KOREA<sup>1</sup>*Head of the Delegation*

H.S. Park, Deputy Administrator, Office of Patents Administration, Ministry of Commerce and Industry, Seoul

*Alternate Head of the Delegation*

J.-U. Chae, Commercial Attaché, Permanent Mission, Geneva

*Delegates*

T.-C. Choi, Director, International Cooperation Division, Office of Patents Administration, Ministry of Commerce and Industry, Seoul

S.-D. Kim, Assistant Director, Treaties Division, Ministry of Foreign Affairs, Seoul

ROMANIA<sup>1</sup>*Head of the Delegation*

I. Datcu, Ambassadeur, Représentant permanent, Mission permanente, Genève

*Alternate Head of the Delegation*

I. Marinescu, Directeur de l'Office d'Etat pour les inventions et les marques, Bucarest

*Delegate*

P. Gavrilescu, Troisième secrétaire, Ministère des affaires étrangères, Bucarest

SAUDI ARABIA<sup>2</sup>*Delegates*

S. Al-Shayea, Counsellor, National Center for Science and Technology, Riyadh

H.S.O. Sindi, Specialist in Scientific Research, National Center for Science and Technology, Riyadh

A. Omair, Attaché (Commercial Affairs), Permanent Mission, Geneva

SENEGAL<sup>1</sup>*Head of the Delegation*

A. Sène, Ambassadeur, Représentant permanent, Mission permanente, Genève

*Delegates*

S.C. Konate, Deuxième conseiller, Mission permanente, Genève

A. N'Diaye, Premier secrétaire, Mission permanente, Genève

*Alternate Delegate*

M. N'Diaye, Secrétaire, Mission permanente, Genève

SOMALIA<sup>2</sup>*Head of the Delegation*

A.S. Osman, Ambassador, Permanent Representative, Permanent Mission, Geneva

SOVIET UNION<sup>1</sup>*Head of the Delegation*

I. Nayashkov, Chairman, USSR State Committee for Inventions and Discoveries, Moscow

*Deputy Head of the Delegation*

V. Zubarev, Director, External Relations Department, USSR State Committee for Inventions and Discoveries, Moscow

*Delegates*

Y. Gyrdymov, Deputy Director, External Relations Department, USSR State Committee for Inventions and Discoveries, Moscow

V. Rochitchine, Counsellor, USSR Council of Ministers, Moscow

M. Oussov, Second Secretary, Permanent Mission, Geneva

H. Koutakova, Expert, External Relations Department, USSR State Committee for Inventions and Discoveries, Moscow

M. Bogouslavski, Professor, State and Law Institute, USSR Academy of Sciences, Moscow

*Advisors*

V. Trousov, Deputy Director, Patent Examination Department, USSR State Committee for Inventions and Discoveries, Moscow

R. Shabanov, Head of Department, USSR State Committee for Inventions and Discoveries, Moscow

B. Nefedov, Senior Advisor, USSR State Committee for Inventions and Discoveries, Moscow

SPAIN<sup>1</sup>*Head of the Delegation*

J. Delicado Montero-Rios, Director General del Registro de la Propiedad Industrial, Ministerio de Industria y Energia, Madrid

*Delegates*

S. Jessel, Directora del Departamento de Estudios y Relaciones Internacionales, Registro de la Propiedad Industrial, Ministerio de Industria y Energia, Madrid

E. Rúa Benito, Director, Departamento de Patentes y Modelos, Registro de la Propiedad Industrial, Ministerio de Industria y Energia, Madrid

A. Casado Cerviño, Jefe, Servicio de Relaciones Internacionales, Registro de la Propiedad Industrial, Ministerio de Industria y Energia, Madrid

L. Nagore San Martin, Consejero de Embajada, Misión Permanente, Ginebra

A.-C. Ortega Lechuga, Jefe, Servicio de Examen y Clasificación de Patentes y Modelos, Registro de la Propiedad Industrial, Madrid

*Alternate Delegate*

T. de las Heras Lorenzo, Jefe, Servicio de Estudios Documentales y Publicaciones, Registro de la Propiedad Industrial, Madrid

SRI LANKA<sup>1</sup>*Head of the Delegation*

D.M. Jayasekera, Minister (Economic and Commercial Affairs), Permanent Mission, Geneva

*Delegates*

H.M.G.S. Paliakkara, Second Secretary, Permanent Mission, Geneva

P. Kariyawasam, Third Secretary, Permanent Mission, Geneva

SUDAN<sup>1</sup>*Head of the Delegation*

H. Ismail, Counsellor, Permanent Mission, Geneva

*Alternate Head of the Delegation*

M.S.E.D. Abbas, Counsellor, Permanent Mission, Geneva

SWEDEN<sup>1</sup>*Head of the Delegation*

G. Borggård, Director General, Royal Patent and Registration Office, Ministry of Commerce, Stockholm

*Deputy Head of the Delegation*

M. Jacobsson, Assistant Under-Secretary, Ministry of Justice, Stockholm

*Delegates*

P. Nyqvist, Under-Secretary for Legal Affairs, Ministry of Industry, Stockholm

A. Aslund, First Secretary, Permanent Mission, Geneva

*Advisors*

L. Körner, Deputy Managing Director, Federation of Swedish Industries, Stockholm

T. Hård, Director, Federation of Swedish Industries, Stockholm

SWITZERLAND<sup>1</sup>*Head of the Delegation*

P. Braendli, Directeur, Office fédéral de la propriété intellectuelle, Berne

*Alternate Head of the Delegation*

R. Kämpf, Chef de la Division des marques, Office fédéral de la propriété intellectuelle, Berne

*Delegates*

J.-M. Souche, Collaborateur juridique, Office fédéral de la propriété intellectuelle, Berne

A.-M. Buess, Assistante de la Direction, Office fédéral de la propriété intellectuelle, Berne

J.-P. Vettovaglia, Ministre, Mission permanente, Genève

M. Kummer, Avocat, Secrétaire du Vorort de l'Union suisse du commerce et de l'industrie, Zurich

SYRIA<sup>1</sup>*Head of the Delegation*

A. Daoudy, Ambassador, Permanent Representative, Permanent Mission, Geneva

*Delegate*

A. Saker, Minister Plenipotentiary, Permanent Mission, Geneva

*Alternate Delegate*

M. Sayadi, Minister Counsellor, Permanent Mission, Geneva

TRINIDAD AND TONAGO<sup>1</sup>*Head of the Delegation*

W.S. Naimool, Ambassador, Permanent Representative, Permanent Mission, Geneva

*Delegate*

M. Lashley, First Secretary, Permanent Mission, Geneva

TUNISIA<sup>1</sup>*Head of the Delegation*

F. Mebazaa, Ambassador, Permanent Representative, Permanent Mission, Geneva

*Alternate Head of the Delegation*

K. Gueblaoui, Chargé de Mission, Cabinet du Premier Ministre, Tunis

*Deputy Heads of the Delegation*

M. Blanco, Chargé d'études et Chargé du département de la propriété industrielle et du transfert de technologie, Institut national de la normalisation et de la propriété industrielle, Tunis

A. Boudhiba, Chargé d'études principal, Département de la propriété industrielle et du transfert de technologie, Institut national de la normalisation et de la propriété industrielle, Tunis

*Advisor*

H. Boufares, Premier secrétaire, Mission permanente, Genève

TURKEY<sup>1</sup>*Head of the Delegation*

E. Apakan, Counsellor, Permanent Mission, Geneva

*Alternate Head of the Delegation*

M. Cetin, President of the Industrial Property Department, Ministry of Industry and Trade, Ankara

*Delegate*

Z. Bastürk, Chief, Patent Section, Ministry of Industry and Trade, Ankara

UGANDA<sup>1</sup>*Alternate Delegate*

J.H. Omara, Counsellor, Deputy Permanent Representative, Permanent Mission, Paris

UKRAINIAN SSR<sup>2</sup>*Head of the Delegation*

V.G. Batiouk, Représentant permanent, Mission permanente, Genève

UNITED KINGDOM<sup>1</sup>*Head of the Delegation*

I.J.G. Davis, Comptroller-General of Patents, Designs and Trade Marks, The Patent Office, London

*Alternate Head of the Delegation*

V. Tarnofsky, Assistant-Comptroller, The Patent Office, London

*Delegates*

T.W. Sage, Superintending Examiner, The Patent Office, London

J.P. Britton, Principal Examiner, The Patent Office, London

J.W.B. Richards, First Secretary, Permanent Mission, Geneva

J. Richardson, Legal Advisor, Ministry of Foreign Affairs, London

*Advisors*

J.M. Aubrey, Advisor, Courtaulds Limited, Coventry

E.R. Wenman, Advisor, Imperial Chemical Industries Limited, London

C.G. Wickham, Advisor, Confederation of British Industry, London

UNITED REPUBLIC OF TANZANIA<sup>1</sup>*Head of the Delegation*

W.K. Chagula, Ambassador, Permanent Representative, Permanent Mission, Geneva

*Alternate Head of the Delegation*

E.E.E. Mtango, Minister Counsellor, Permanent Mission, Geneva

*Delegate*

S.J. Asman, Counsellor (Scientific Affairs), Permanent Mission, Geneva

UNITED STATES OF AMERICA<sup>1</sup>*Head of the Delegation*

G.J. Mossinghoff, Assistant Secretary of Commerce and Commissioner of Patents and Trademarks, Department of Commerce, Washington, D.C.

*Alternate Heads of the Delegation*

M.K. Kirk, Assistant Commissioner for External Affairs, Patent and Trademark Office, Department of Commerce, Washington, D.C.

H.J. Winter, Director, Office of Business Practices, Bureau of Economic and Business Affairs, Department of State, Washington, D.C.

*Delegates*

H.H. Schmitt, Consultant on Intellectual Property Matters to the Secretary, Department of Commerce, Washington, D.C.

L. Schroeder, Industrial Property Specialist, Patent and Trademark Office, Department of Commerce, Washington, D.C.

G.T. Dempsey, Second Secretary, Permanent Mission, Geneva

L.H. Belgard, Second Secretary, Permanent Mission, Geneva

*Congressional Advisor*

T.N. Kindness, Member of Congress, United States House of Representatives, Washington, D.C.

*Advisors*

D.R. Dunner, Attorney, Finnegan, Henderson, Farabow, Garret and Dunner, Washington, D.C.

G.M. Frayne, Attorney, Abelman, Frayne, Rezac and Schwab, New York

A.D. Lourie, Vice-President, SmithKline Beckman Corp., Philadelphia, Pennsylvania

J.T. Lanahan, Trade Mark Counsel, UOP Inc., Des Plaines, Illinois

L.T. Pirkey, Attorney, Arnold, White and Durkee, Austin, Texas

T.F. Smegal, Jr., Attorney, Townsend and Townsend, San Francisco, California

R.C. Witte, Patent Counsel, The Procter and Gamble Company, Cincinnati, Ohio

J. Wolfe, Counsel, Committee on the Judiciary, United States House of Representatives, Washington, D.C.

URUGUAY<sup>1</sup>*Head of the Delegation*

C. Fernández Ballesteros, Ministro, Representante Permanente Adjunto, Misión Permanente, Ginebra

*Alternate Head of the Delegation*

J. Meyer-Long, Segundo Secretario, Misión Permanente, Ginebra

## VENEZUELA

*Head of the Delegation*

G. Pérez-Castillo, Ministro Consejero, Misión Permanente, Ginebra

*Alternate Head of the Delegation*

H. Suárez Mora, Primer Secretario, Misión Permanente, Ginebra

VIET NAM<sup>1</sup>*Head of the Delegation*

Nguyen Thuong, Ambassadeur, Représentant permanent, Mission permanente, Genève

*Delegate*

Vu Huy Tan, Attaché, Mission permanente, Genève

YEMEN<sup>2</sup>*Head of the Delegation*

A. Tarcici, Ambassadeur, Conseiller général, Mission permanente, Genève

YUGOSLAVIA<sup>1</sup>*Head of the Delegation*

K.H.E. Vidas, Ambassador, Permanent Representative, Permanent Mission, Geneva

*Delegates*

D. Vujičić, Minister Counsellor, Deputy Permanent Representative, Permanent Mission, Geneva

D. Čemalović, Independent Counsellor, Federal Patent Office, Belgrade

G. Fejić, First Secretary, Permanent Mission, Geneva

ZAIRE<sup>1</sup>*Head of the Delegation*

Mukamba Kadiata-Nzemba, Ambassadeur, Représentant permanent, Mission permanente, Genève

*Delegate*

Lukusa Kayembe Nkaya, Premier secrétaire, Mission permanente, Genève

## II. Intergovernmental Organizations

*United Nations: United Nations Conference on Trade and Development (UNCTAD)*

P. Roffe, Chief, Legal Policies Section, Technology Division, Geneva

R. Dhanjee, Associate Economic Affairs Officer, Technology Division, Geneva

*United Nations: United Nations Industrial Development Organization (UNIDO)*

A. Pathmarajah, Special Representative of the Executive Director, UNIDO, Geneva

R. Kloepzig, Senior Industrial Development Officer, Development and Transfer Technology Branch, Division for Industrial Studies, Vienna

*United Nations: Office of the United Nations High Commissioner for Refugees (UNHCR)*

J. Mizuno, Legal Officer, Geneva

*United Nations: General Agreement on Tariffs and Trade (GATT)*

A.T. Otten, Counsellor, Non-Tariff Measures Division, Geneva

*African Intellectual Property Organization (OAPI)*

D. Ekani, Directeur général, Yaoundé

*European Communities*

A. McClellan, Conseiller, Bruxelles

J. Delmoly, Membre, Service juridique, Commission des Communautés européennes, Bruxelles

M.B. Schwab, Administrateur principal à la Direction générale du marché intérieur et des affaires industrielles, Commission des Communautés européennes, Bruxelles

H.W. Kunhardt, Administrateur principal auprès du Conseil des Ministres des Communautés européennes, Bruxelles

*European Patent Organisation (EPO)*

J.C.A. Staehelin, Vice-President, Directorate General 5, Legal Affairs and International Relations, Munich

*European Space Agency (ESA)*

R. Oosterlinck, Chef, Service de la propriété intellectuelle, Paris

P. Kallenbach, Ingénieur en brevets, Paris

*Organization of African Unity (OAU)*

Y. Afanou, Observateur permanent adjoint (Affaires économiques), Délégation permanente, Genève

K.L.D. Ramasawmy, Conseiller (Affaires sociales), Délégation permanente, Genève

*Secretariat of the Interim Committee for the Community Patent*

V. Scordamaglia, Chef de Division, Secrétariat général, Conseil des Ministres des Communautés européennes, Bruxelles

H.W. Kunhardt, Administrateur principal auprès du Conseil des Ministres des Communautés européennes, Bruxelles

J. Huber, Administrateur, Bruxelles

## III. International Non-Governmental Organizations

*Asian Patent Attorneys Association (APAA)*

Y. Uchida, Committee Member, Patent Attorney, Tokyo

K. Kato, Committee Member, Patent Attorney, Tokyo

*Center for the International Study of Industrial Property (CEIPI)*

P. Nuss, Professeur et Chargé de mission, Strasbourg

*Council of European Industrial Federations (CEIF)*

G.F. Kunze, Vice-President, Nestlé S.A., Vevey

*Inter-American Association of Industrial Property (ASIPI)*

M. Soni, President, México

*International Association for the Protection of Industrial Property (AIPPI)*

G. Gaultier, Rapporteur général, Paris

G.M. Frayne, Trésorier général, New York

M. Chome, Vice-Président de l'AIPPI et Président du Groupe belge, Bruxelles

R. Harle, Membre d'honneur, Paris

*International Chamber of Commerce (ICC)*

G. Gansser, Directeur adjoint, Ciba-Geigy S.A., Bâle, Rapporteur, Commission de la propriété industrielle de la CCI, Paris

W.D. Roberson, Associate Patent Counsel, Patent Department, Polaroid Corporation, Cambridge, Massachusetts

B. Wurm, Director, Patent and Trade Mark Department, AB ASTRA, Södertälje

J. Buraas, Représentant de la CCI auprès des Nations Unies, Genève

D. Werbner, Attachée juridique, Secrétariat économique de la CCI, Paris

*International Federation of Inventors' Associations (IFIA)*

F. Burmester, Vice-President (Federal Republic of Germany), Reutlingen

C.P. Feldmann, Vice-President (Switzerland), Glattbrugg

S.-E. Angert, Vice-President (Sweden), Stockholm

K.-E. Sundström, Chêne-Bougeries

*Licensing Executives Society (International) (LES)*

G. Modiano, Member, LES International Activities Committee, Geneva

*Pacific Industrial Property Association (PIPA)*

K.F. Jorda, President, PIPA, Corporate Patent Counsel, Ciba-Geigy Corporation, Ardsley, New York

W.D. Roberson, Associate Patent Counsel, Patent Department, Polaroid Corporation, Cambridge, Massachusetts

*Union of Industries of the European Community (UNICE)*

G.F. Kunze, Vice-President, Nestlé S.A., Vevey

#### IV. International Bureau of the World Intellectual Property Organization (WIPO)

- A. Bogsch, Director General  
 K. Pfanner, Deputy Director General  
 M. Porzio, Deputy Director General  
 L. Baeumer, Director, Industrial Property Division  
 G. Ledakis, Legal Counsel  
 I. Thiam, Director, Development Cooperation and External Relations Bureau for Africa and Western Asia  
 F. Balleys, Head, Industrial Property Law Section, Industrial Property Division  
 B. Davoudi, Head, Building and Common Services Section  
 I. Pike-Wanigasekara, Senior Assistant, Office of the Director General  
 H. Rossier, Head, Mail and Documents Section  
 Tran-Thi T.-L., Legal Officer, Industrial Property Law Section, Industrial Property Division  
 V. Yossifov, Program Officer, Industrial Property Law Section, Industrial Property Division

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#### II.

#### Working Group on Technical Questions Relating to the Legal Protection of Computer Software

(Canberra, April 2 to 6, 1984)

#### REPORT ADOPTED BY THE WORKING GROUP

##### I. Introduction

1. Convened by the Director General of the World Intellectual Property Organization (WIPO) in accordance with a recommendation of the WIPO Committee on the Legal Protection of Computer Software at its second session (Geneva, June 1983) and following an invitation of the Government of Australia, the WIPO Working Group on Technical Questions Relating to the Legal Protection of Computer Software (hereinafter referred to as "the Working Group") met in Canberra from April 2 to 6, 1984.
2. Twenty-five experts from 15 countries participated in the meeting, which was chaired by Dr. R. Bell (Australia). Mr. L. Baeumer (WIPO) acted as Secretary. The list of participants is reproduced in Annex II to this Report.
3. The meeting was opened by the Attorney-General of Australia, Senator Gareth Evans, Q.C. He welcomed the participants and noted that the impact of modern computer technology in traditional intellectual and industrial property concepts has become an issue of remarkably lively public debate in Australia. He stressed that it was of the utmost importance that countries come together with a view to ensuring that their laws, if not necessarily uniform, are at least compatible

in basic principle. He drew attention to the fact that WIPO, which administers the Paris Convention for the Protection of Industrial Property and the Berne Convention for the Protection of Literary and Artistic Works, has been actively studying the question of legal protection of computer software since 1971. Noting that the current debate largely concerned the question whether software is or should be protected under the existing copyright conventions, or should be treated under a special legal regime, he drew attention to the need for national and international legislation to keep pace with technological developments, and emphasized the importance of the task of the meeting, to contribute, by discussing technical questions such as definitions, to creating the legal environment which will best facilitate the application of new technologies in ways of benefit to all mankind. The Attorney-General's address is reproduced in Annex III to this Report.

4. The Director General of WIPO, Dr. Arpad Bogsch, recalled the work undertaken by WIPO since 1971 regarding the drawing up of model provisions for national legislation on the protection of computer software, regarding the question of the desirability of the setting up of an international voluntary register for computer software, and regarding the protection of computer software at the international level. He emphasized that no final decisions had been made and that the work would continue. He drew attention to the need to re-examine definitions, in view of the advances in technology, including the importance of integrated circuits, affecting the creation and use of computer software. Dr. Bogsch expressed his thanks to the Government of Australia for hosting the meeting. The Director-General's address is reproduced in Annex IV to this Report.

5. The discussions were based on an outline prepared by the International Bureau of WIPO entitled "Technical Questions Relating to the Legal Protection of Computer Software" (document LPCS/WGTQ/I/2, reproduced in Annex I to this Report). This Report contains only a brief summary of those discussions and does not reflect all the observations made. Each intervention, however, has been recorded on tape and noted by the Secretariat.

##### II. Definitions and Technical Explanations

###### Definitions

6. Discussions were based on paragraphs 3 to 7 of document LCPS/WGTQ/I/2. The definitions contained in the WIPO Model Provisions on the Protection of Computer Software (hereinafter referred to as the "Model Provisions") were examined in the light of developments which had taken place since the preparation of the Model Provisions in 1977 and of developments which could reasonably be expected to take place in the foreseeable future. In general, it was

noted that important changes had taken place in respect of computer technology, in particular as regards the production of computer programs, and that further important changes could still be expected.

7. Bearing in mind that its mandate related to technical questions, the Working Group noted that the various formulations (see paragraph 10, below) proposed for the improvement of the definitions in the Model Provisions could include technical explanations not necessarily required in or appropriate to definitions to be contained in national legislation or an international treaty. It also recognized that words should be chosen which would reflect, so far as possible, not only technical senses well understood by computer experts but also legal senses on which decisions by courts would be based. The Working Group took into account the need for the drafting of definitions of legally protected subject matter to match the type of legal protection envisaged, with the result that, for example, the drafting of a definition of computer program with a view to protection by a copyright law would be different from the drafting of such a definition for the purposes of another law. It was agreed to attempt to draft definitions initially in a copyright context.

8. After an extensive discussion, it was generally agreed that it was not possible, useful or necessary to attempt definitions of such jargon terms as "computer software" or "firmware" for the purposes of legal protection. It was also noted that "supporting material" required no special protection (being generally material already capable of protection under existing copyright principles) and therefore needed no special definition.

9. It was pointed out that the definition in the Model Provisions of a "program description" would apply more appropriately to a "program specification," and that, in the light of recent and expected future developments, the definition of "computer program" could include formal program specification in some cases. It was observed that programs consisted not only of imperative instructions but also of declaratory statements in higher level languages, and that the importance of the latter element was increasing and could be expected to increase further.

10. The following alternative texts were proposed by members of the Working Group as improvements of the definition of "computer program" contained in the WIPO Model Provisions:

(a) "Computer Program is a well-formed set of instructions capable of directing automatic information-handling machines to perform some function, in some specific way."

"Program Code is any representation of a computer program, expressed in any programming language, implementable through automatic or manual translations of its set of instructions."

(b)

"A Computer Program is an expression

(organized structured related) (set sequence collection combination disposition) of (instructions statements commands orders forms symbols)

in any language or notation

(high level intermediate assembly machine micro) (language code)

on any medium

(magnetic optical electrical pencil on paper) (tape disk film chip ROM circuit)

intended to cause a computer

(directly or indirectly with or without data) (information processing machine robot logical device)

to perform a task."

(execute) (particular specific intended) (function)

(c) "An expression, in any form and on any medium, of a set of *directions* (with or without related *information*) intended to cause a machine\* having information processing capabilities to perform a particular function."

\* device?

(d) "A computer program means a set of inter-related instructions intended to cause an information processing device to perform a particular function."

"For the purpose of copyright/copyright-like protection: a computer program means an expression of a set of inter-related instructions intended to cause an information processing device to perform a particular function."

(In a side-paragraph, terms like:

- . related. instruction
  - . intended
  - . device
  - . perform. function
- can be determined.)

- (e) "A computer program is a structured set of instructions and/or expressions,

which can be described in a written form, using one or several equivalent programming or description languages:

which can be transformed to such a form that it can be stored in a computer-readable media in order to run a computer or an information-processing system."

- (f) "For the purposes of copyright protection, a computer program work is an expression of a set of instructions or statements fixed in any form or medium intended to cause\* a computer directly or indirectly to indicate, perform or achieve a particular function, task or result."

\* capable of causing

### Stages in Program Preparation

11. In respect of paragraph 5(b) of document LPCS/WGTQ/1/2, it was pointed out that new methodologies were emerging to automatically generate programs from program specifications. Nevertheless, each specification could be implemented by several algorithms and numerous programs.

### Transformation from Program Specification into Source Code and from Source Code into Object Code

12. The question was raised how to define the act of transformation of a program from source code into object code: was this to be considered as a mere reproduction or as an adaptation, resulting in a new work? According to one opinion, such transformation could be compared with the transformation of a written text into binary symbols for the purposes of printing and thus constituted a mere reproduction. On the other hand, the opinion was expressed that additions and deletions could be made, together with changes in the order of the instructions so that several possibilities might exist as regards the result of such transformation. If the compiler program could be considered as an independent intellectual input, the consequence would be that the act of transformation could be an adaptation and not merely a reproduction.

13. It was pointed out that similar considerations might apply to the transformation from program specification into source code, and that there could be an even stronger argument in favor of an adaptation (going

beyond mere reproduction) where the said transformation required a more complex intellectual input.

### Integrated Circuits

14. With respect to paragraph 5(d) of document LPCS/WGTQ/1/2, attention was drawn to plans for establishing a special form of protection for the design of integrated circuits.

### III. Factual Questions

15. Discussions were based on paragraph 8 of document LPCS/WGTQ/1/2.

### Use of a Computer Program in the Control of the Operations of a Computer

16. As regards the first question contained in paragraph 8(a) of document LPCS/WGTQ/1/2, namely, whether use of a computer program in the control of the operations of a computer in all cases entailed a reproduction of the program, there was unanimity that this question had to be replied to in the negative, in particular since it contained the proviso "in all cases." Reference was made to re-entrant programs, and to computer programs stored in integrated circuits, which could be directly used without the requirement of establishing a copy in the Central Processing Unit (CPU) of the computer. A precondition of such direct use was the complete technical compatibility of the program as stored and the computer for which it was to be used. That precondition was fulfilled in the case of computer programs, such as those packaged in ROM cartridges, which were sold in relatively large quantities as consumer goods, in particular computer programs for home computers and personal computers and computer programs relating to videogames. In this connection, reference was also made to the storage of computer programs on so-called "smart cards" and "chip cards," i.e., devices which contained the program plus the electronic machine executing the program.

17. The question was raised whether one could speak of reproduction where, in its operation according to the program, the computer would repeat—one after the other—all or some of the instructions that make up the program but would never incorporate the program as a whole nor record such instruction in tangible form. The view was expressed that, in such a case, no reproduction took place because a single instruction could not be considered as a sufficiently characteristic part of a program and, under any definition, a computer program consisted of a structured "set"—and not only of unrelated individual instructions.

18. Attention was drawn to the fact that the device storing the program and the device controlled by the program could be in completely different locations and/or jurisdictions, the instructions of the program

being communicated between the devices by long-distance transmission.

19. It was agreed that the loading of a computer with a program was to be considered as a reproduction, but such loading, and therefore reproduction, might occur only once, regardless of the number of uses (and, in the case of multiuser systems, the number of users).

20. As regards the second question contained in paragraph 8(a) of document LPQS/WGTQ/I/2, it was agreed that, in the case of loading referred to in paragraph 19, above, the medium on which the program was reproduced could be a primary memory or any other tangible medium.

#### **Preventing or Hampering Unauthorized Use of a Computer Program by Technical Protection Devices**

21. As regards paragraph 8(b) of document LPCS/WGTQ/I/2, explanations were given on the various existing technical possibilities in order to prevent or hamper unauthorized use (and/or unauthorized copying) of a computer program, such as:

- (i) encryption (i.e., making the program unusable or unfit for unauthorized copying);
- (ii) deliberate incorporation of defects ("bugs");
- (iii) incorporation of passwords or other means of identifying authorized users (e.g., voice or finger print identification);
- (iv) restriction of the servicing of programs to registered authorized users;
- (v) other electronic devices, such as "smart cards," etc.;
- (vi) sealed cartridge packaging.

22. It was pointed out that the efficiency of those means depended on the investment made in them and that so far no technical means existed which could completely exclude unauthorized use or copying of programs; for each technical obstacle there would be some technical solution to overcome it; all depended on the investment in time, money and effort which the party interested in overcoming the obstacle was ready to make. Moreover, attention was drawn to the inconvenience caused by technical protection devices to authorized users. In any case, it was agreed that technical protection could never render legal protection superfluous.

#### **IV. Classification of Computer Programs**

23. With respect to paragraphs 9 to 12 of document LPCS/WGTQ/I/2, the Secretariat stated that the International Patent Classification was merely referred to as an example but that a classification of computer programs appeared to be useful, if not necessary, inde-

pendently of the form of protection to be considered, for the purposes of organizing the existing material.

24. It was underlined that a classification of computer programs would be particularly important for users of programs, in order to permit selective access through identification of programs. The view was also expressed that such a classification system would involve considerable difficulty in establishing the necessary multiple classifications, and that the usefulness of such a system for potential users is, at best, speculative.

25. Reference was made to the guidelines on patentability of computer programs issued by the Japanese Patent Office and the fact that in that Office about 20,000 patent applications concerning computer programs were pending.

26. It was pointed out that the United States Copyright Office registered computer programs without applying a classification.

27. Attention was drawn to existing schemes of classifying computer programs, established either by important users of computer programs, in particular governments and intergovernmental organizations, or by producers of programs or other interested entities, such as associations of users or producers or independent organizations, i.e., publishers of computer program directories. The said schemes had not yet reached the level of sophistication justifying the expression "classification," and they were far from being uniform. However, certain criteria for distinguishing programs appeared in all of them, in particular the purpose of the program. Criteria frequently used included the function of the program, the language in which the program was expressed, the type (including size) of computer for which it could be used, the author and/or enterprise of origin and the date of creation or publication. It was agreed that examples of such classification systems should be forwarded to the International Bureau.

28. It was noted that a traditional type of classification system may be inadequate for the purposes of users. It was suggested that a computerized information retrieval system based on a range of program attributes might be the only satisfactory way of implementing a classified system of computer programs.

#### **V. Closing of the Meeting**

29. In his closing address, the Secretary of the Attorney-General's Department, Mr. Pat Brazil, underlined the progress which had been made in refining technical questions, which will prove important in WIPO's future work on this subject.

30. This Report was adopted by the Working Group in its meeting on April 6, 1984.

## ANNEX I

TECHNICAL QUESTIONS RELATING TO  
THE LEGAL PROTECTION OF COMPUTER SOFTWARE

(WIPO document LPCS/WGTQ/1/2, of February 24, 1984)

## Outline Prepared by the International Bureau

## I. Introduction

1. The Committee of Experts on the Legal Protection of Computer Software (hereinafter referred to as "the Committee") recommended at its second session (Geneva, June 1983) that a working group for examining certain technical issues, in particular the definition of computer software, should be convened (see document LPCS/II/6, Annex I, paragraph 7). This recommendation was one of the results of the Committee's deliberations on a draft treaty for the protection of computer software (hereinafter referred to as the "draft treaty") (document LPCS/II/3). In particular, the said draft treaty contains definitions of the terms "computer program," "program description," "supporting material" and "computer software," which reproduce the definitions contained in the Model Provisions on the Protection of Computer Software (hereinafter referred to as the "Model Provisions"). The said Model Provisions had been published by WIPO in 1978 after preparatory work undertaken, with the assistance of an advisory group, during the years 1974 to 1977. Thus, the question arose in the Committee of whether, in view of the rapid development of computer hardware and software technology, the said definitions require being brought up to date (see document LPCS/II/6, paragraphs 37 to 45). Moreover, it was suggested that related technical issues (in addition to the definition of computer software) should also be examined (see document LPCS/II/6, paragraph 44).

2. The present paper refers to three kinds of technical questions, namely, definitions (in particular the definition of computer program), factual questions (in particular the question of whether use of the program implies reproduction) and the possibility of establishing a classification of computer programs. The selection of those questions is not to be understood as an expression of an opinion on the legal or other issues to be settled in an international treaty for the protection of computer software. It can, however, be assumed that those questions may be relevant for such a treaty, and there may be additional questions which also require examination. In any case, the present paper has, in respect of its coverage and contents, only a tentative character. The participants in the Working Group are invited to reply to the questions raised and to suggest, and reply to, further questions relevant to the subject.

## II. Definitions

3. The definitions of "computer program," "program description," "supporting material" and "computer software" contained in the Model Provisions (Section 1) and the draft treaty (Article 1) read as follows:

- (i) "computer program" means a set of instructions capable, when incorporated in a machine-readable medium, of causing a machine having information-processing capabilities to indicate, perform or achieve a particular function, task or result;
- (ii) "program description" means a complete procedural presentation in verbal, schematic or other form, in sufficient detail to determine a set of instructions constituting a corresponding computer program;
- (iii) "supporting material" means any material, other than a computer program or a program description, created for aiding the understanding or application of a computer program, for example problem descriptions and user instructions;
- (iv) "computer software" means any or several of the items referred to in (i) to (iii).

## Computer Program

4. In respect of the definition of "computer program," the following observations were made in the Committee (see document LPCS/II/6, paragraphs 37 to 40):

(a) the necessity of a definition was questioned, since it might have the effect of excluding certain matters from protection;

(b) the definition appeared to be too limited; it should cover "source program," "object program," other types of programs and the different stages of development of programs;

(c) the terminology established by the International Organization for Standardization (ISO) should be taken into account;

(d) instead of "... means a set of instructions..." the definition should say "... means an expression, in any form, of a set of instructions ...."

5. In the light of those observations, but also of considerations raised in court decisions and scientific articles dealing with the legal protection of computer software, the following issues are to be distinguished:

(a) Does "program" mean both the machine-readable set of instructions, stored on a medium such as an integrated circuit or a magnetic tape and providing for electrical functions (e.g., a sequence of steps permitting or not permitting the flow of electrical current), and the expression of the said instructions in writing? The machine-readable expression of the program is generally called "object code," whereas the expression of the program in writing (which is the basis for the object code) is generally called "source code." The source code is usually expressed in a programming

language, i.e., an artificial language established for expressing computer programs (*sic* the ISO Standards Handbook 10 "Data Processing—Vocabulary," 1982 (hereinafter referred to as the "ISO Vocabulary"), 07.02.13), whereas the object code is usually expressed in a set of computer instructions, i.e., instructions that can be recognized by the central processing unit of the computer for which they are designed (ISO Vocabulary, 07.16.01). As regards the source code, a distinction seems to be made between a high level computer language, such as BASIC or FORTRAN, and an assembly language which consists of alphanumeric labels and which can automatically be translated by a compiler program into object code. Thus, a computer program may be created in three consecutively prepared expressions: first in high-level computer language, then in assembly language and finally in machine language, the first two expressions being called "source code" and the final expression being called "object code." Therefore, the question arises to what extent various expressions in assembly language and machine language may be established on the basis of a particular expression in high-level computer language.

(b) What are the stages in the preparation of a computer program that precede the establishment of the source code? What is the meaning of "algorithm?" (The ISO Vocabulary (01.04.10) defines "algorithm" as "a finite set of well-defined rules for the solution of a problem in a finite number of steps.")

(c) Do any parts of a computer program describe a particular definition and, if so, what should be those definitions? For example, what does "subroutine" mean? (The ISO Vocabulary 07.08.01 defines "subroutine" as "a sequenced set of statements that may be used in one or more computer programs and at one or more points in a computer program.") What is a "mnemonic symbol?" (The ISO Vocabulary 04.01.06 defines this as a "symbol chosen to assist the human memory" and gives as an example the abbreviation "mpy" for "multiply.") What is a "notation?" (The ISO Vocabulary defines "binary-coded notation" as a "binary notation in which each character is represented by a binary numeral" (05.05.04) and a "binary-coded decimal notation" as a "binary-coded notation in which each of the decimal digits is represented by a binary numeral" (05.06.01).)

(d) What does "firmware" mean? Is this expression being used to designate integrated circuits (or "chips") which incorporate computer programs in machine language? Could a precise definition of "firmware" be given? (The ISO Vocabulary is silent on this matter.)

#### Program Description and Supporting Material

6. In the discussions of the Committee, doubts were expressed concerning the usefulness of defining "program description" and "supporting material" (see document LPCS/II/6, paragraph 41). The question here

is whether those definitions may be affected by any technological developments.

#### Computer Software

7. The three elements of which computer software may consist in accordance with the definition of the Model Provisions and the draft treaty have been examined in the preceding paragraphs. The only question which seems to arise in this connection is the question of whether computer software may consist of elements other than the three aforementioned.

### III. Factual Questions

8. There seem to be two factual questions of a technical nature relevant for the legal protection of computer software:

(a) Does use of a computer program in the control of the operations of a computer in all cases entail a reproduction of the program? If so, what is the kind of such reproduction and does it result in a tangible copy (e.g., on a magnetic tape)?

(b) To what extent can the unauthorized use of a computer program be prevented or hampered by technical protection devices?

### IV. Classification of Computer Programs

9. A technical question of growing importance is the question of whether it is possible to establish criteria (which could be expressed in short symbols) in order to classify computer programs. Those criteria should be internationally accepted, following the example of the International Patent Classification; the international classification of computer programs could even become a part of, or an annex to, the International Patent Classification.

10. A classification of computer programs could enable the storage of computer programs in a manner permitting their easy retrieval. Thus, program data banks could be established, which would facilitate a more wide-spread use of computer programs and avoid duplication of efforts in the preparation of computer programs.

11. Several criteria appear to be conceivable in order to distinguish computer programs, for example, the kind of programming language used, the purpose of the program, etc.

12. While it is realized that the establishment of a classification not only raises technical questions but also administrative questions, a preliminary opinion—based on technical considerations only—on this question nevertheless appears to be useful.

## ANNEX II

## LIST OF PARTICIPANTS\*

## I. Experts

R. Bell (*Australia*); P. Crisp (*Australia*); J.A. Faria Correa (*Brazil*); J.E.M. Galama (*Netherlands*); B.R. Gibson (*New Zealand*); A. Grisonnanche (*France*); R.J. Hart (*United Kingdom*); T.N. Heming (*Australia*); C.K. Kim (*Republic of Korea*); J.E.A. Kingston (*Canada*); G.M. Kretzschmar (*Federal Republic of Germany*); R. Magnus (*Singapore*); M. Mitsugi (*Japan*); R.O. Nimitz (*United States of America*); S.H. Nycum (*United States of America*); S.S. Oberoi (*India*); C. R. Pellegrini (*Switzerland*); F.E.R. Ramalho (*Brazil*); G.A. Rose (*Australia*); A.K. Sarmanto (*Finland*); K.H. Shin (*Republic of Korea*); V. Siber (*United States of America*); P.A. Smith (*Australia*); P.-Y. Thong (*Singapore*); A. van Wiersl (*Australia*).

## II. Officers

*Chairman*: R. Bell (*Australia*). *Secretary*: L. Baeumer (*WIPO*).

## III. International Bureau of WIPO

A. Bogsch (*Director General*); L. Baeumer (*Director, Industrial Property Division*); R. Harben (*Director, Public Information Division*). *Special Consultant*: M. Najim (*Professeur, Université Mohamed V, Rabat, Morocco*).

## ANNEX III

## OPENING ADDRESS BY THE ATTORNEY-GENERAL OF AUSTRALIA, SENATOR GARETH EVANS, Q.C.

Director-General, Distinguished Experts and Consultants,  
Ladies and Gentlemen,

It is my pleasure to welcome you to this meeting of a Committee of Experts on the Legal Protection of Computer Software, convened by the World Intellectual Property Organization. For those of you who are from overseas, welcome also to Australia and, in particular, to our national capital. I hope you find your stay both enjoyable and productive.

You are present in Australia at a time when the community, the computer industry and various parts of government are wrestling with the impact of modern computer technology on traditional intellectual and industrial property concepts.

This once somewhat academic issue has become the subject of remarkably lively public debate following a

decision of our Federal Court in December 1983 to the effect that certain categories of computer software were not legally protected as "literary works" under our Copyright Act 1968.

The debate came to a head at a symposium which my Department co-sponsored, held in Canberra a fortnight ago on 15-16 March. Nearly 300 representatives of the computer software industry and user groups came together, united only in one thing, their condemnation of me and the Government (either for talking about protective legislation at all; or for not enacting it the day before yesterday).

In opening that symposium I stated that in approaching the question of whether computer software should be protected by legislation against copying, the Government regarded the onus as lying heavily on those arguing against legislative protection.

At the same time, I made clear that, since an appeal to the Full Federal Court from the earlier decision has been heard but not yet decided, the Government would not contemplate taking legislative action, whatever form legislative change might take, before the outcome of the Full Federal Court appeal was known (although we will reconsider that position in the event that it becomes apparent that there will be any really significant delay).

As your presence in Australia today testifies, the recent Australian experience with computer software and other expanding technology is in no way unique. Faced with an international situation of this kind and the vast improvements in information transmission technology, it is of the utmost importance that countries come together through the auspices of a forum such as WIPO with a view to ensuring that their laws, if not necessarily uniform, are at least compatible in basic principle.

In such a climate, international cooperation and consistency are of the greatest importance and one naturally hopes that those two great multilateral intellectual and industrial property Conventions—the Berne Convention of 1886 and the Paris Convention of 1883—will prove equal to the task: if not in detail, at least in principle.

Against that background, it is pleasing to note that the World Intellectual Property Organization, which administers both those Conventions, has been actively studying the question of legal protection of computer software—and has in fact been doing so since 1971—with a view to developing effective national and international measures.

I am informed, Director-General, that the process began in 1971 with an advisory group of governmental experts, and that the study was continued with the help of non-governmental experts who met four times between 1974 and 1977: with model provisions on the protection of computer software being first published by WIPO in 1978.

Further expert groups met in 1979 and 1983 to consider the desirability and feasibility of an interna-

\* A list containing the titles and functions of the participants may be obtained from the International Bureau.

tional treaty for the protection of computer software. I understand that the debate is now largely one of whether software is or should be protected under the existing copyright conventions or should be treated, because of its distinctive characteristics, under a special legal regime, borrowing aspects of both copyright and patent law.

Whilst such careful analysis, debate and consultation is most valuable in developing acceptable legal responses, it does run into one substantial difficulty. Technological development does not wait for legislators and just as the technology may change almost beyond recognition in a decade or less, so the necessary legal apparatus for dealing with such technology must change or risk becoming redundant.

We of course find the same phenomenon with our domestic laws and it is always difficult to balance the time needed for detailed analysis and wide consultation against the risk that solutions will be obsolete, or at least obsolescent, unless adopted reasonably quickly.

I understand that it is largely the function of this meeting to bring the international discussions up to date by considering whether definitions used in the WIPO Model Provisions and Draft Treaty now represent adequately the state of current technology.

It will be a difficult task, since you will be racing against a very difficult opponent. In one respect the situation is like the old paradox of the tortoise and the hare: each time the hare reaches the point where the tortoise was a moment ago, the tortoise has moved on a step. But the big difference here is that the "state of current technology" is no tortoise, but itself goes ahead in leaps and bounds.

Your task is obviously a most important one. I firmly believe that it is only by keeping our national and international laws truly up to date that we can create the legal environment which will best facilitate the application of new technologies in ways of benefit to all mankind.

I appreciate that this meeting will not be directly concerned with national or international policies concerning legal protection of computer software. Nevertheless, this work will be of fundamental importance to the development and expression of those policies and for that reason I am delighted to see such a wide range of countries represented here today. Your recommendations will have a truly international imprint and, as such, should command world-wide respect.

Further to my earlier comments about the current debate in Australia, we are particularly grateful to the experts from the United States, Germany, Britain and Japan who have kindly agreed to lead discussions at the Public Seminar next Thursday. This will offer Australians an unparalleled opportunity to learn about developments in those four countries which are recognized leaders in technology.

Lest I be accused of contributing to that delay which causes legal obsolescence I shall conclude here by

offering you my best wishes and those of the Government for successful discussions. I look forward to seeing the report on the deliberations of this Meeting of Experts, which I now have great pleasure in declaring open.

#### ANNEX IV

##### OPENING ADDRESS BY THE DIRECTOR GENERAL OF WIPO, DR. ARPAD BOGSCH:

Mr. Attorney-General, the Honorable Senator Gareth Evans,  
Ladies and Gentlemen,

The protection of computer software is a question that has occupied for the last 10 years the World Intellectual Property Organization, which I have the honor to represent here today.

The first thing we did was the drawing up of model provisions on the protection of computer software. Model provisions, that is, for the legislator for legislating on the matter. The provisions, published in 1977, were the outcome of the work of an advisory group of non-governmental experts which met, once a year, in the four years between 1974 and 1977 in Geneva, where the World Organization has its headquarters.

A few years later, we received a new mandate from our Governing Bodies. It was to look into two questions. One was the desirability of the setting up of an international *voluntary* register for computer software. Not having received a favorable reaction, the pursuit of this question was suspended for the time being.

The other question was that of the protection of computer software on the international level. In other words, to try to find a reply to the question whether the existing treaties in the field of intellectual property oblige the States to protect computer software of foreign origin and, if so, whether the foreign creators and owners of computer software can safely rely on such treaties. Furthermore, if the answer to these questions is negative, or not completely positive, to look into the feasibility of a new multilateral treaty, specially designed to oblige the contracting States to grant protection to computer software of foreign origin.

Two international meetings, organized by WIPO, have taken place so far on these questions. These meetings were meetings of representatives of governments and interested non-governmental organizations and were convened under the name "Committee of Experts on the Legal Protection of Computer Software." The second and, thus, the most recent of those meetings took place last June. The work is not completed, no final decisions have been made, and the work will continue.

During that second session of the Committee of Experts, it became evident that it was no longer sure whether the definition of computer software, as made in

1977 by the above-mentioned Advisory Group, was still valid and whether the uses to which computer software can be put, and the abuses it can suffer, were the same now as seven or 10 years ago. Many new inventions were made, integrated circuits became of prime importance, and many other things have happened, in the past decade, that affect the creation and the use of computer software.

This is why last year's Committee of Experts recommended, as an intermediate step, before continuing its work, the convening of a working group "for examining certain technical issues, in particular the definition of computer software."

That working group is this working group. The strongest support of the proposal for such a working group was made during last year's meeting by our distinguished chairman, Dr. Robin Bell, who is a high official of the Department headed by the Attorney-General, Senator Evans. This is one of the reasons for which I convened the working group in Canberra.

But there is another reason as well. It is that I thought it to be particularly appropriate to have a meeting on such a modern topic as computer questions in a country as modern as Australia. Australia is the country of the most staggering rapid development in the intellectual and industrial field, and it is a country whose future is particularly bright. Is computer technology not a field of intellectual and industrial endeavor in the process of a most staggering rapid development with the brightest future?

The idea of having this meeting in Canberra was confirmed during a visit that the Secretary of the Attorney-General's Department, Mr. Pat Brazil, paid to WIPO a few months ago, and was authorized by the Attorney-General himself, in the name of the Australian Government.

WIPO is—and I shall conclude my remarks with these observations—very grateful to the Australian Government, and in particular to Senator Evans, for hosting this meeting. It underlines the interest that they have in international cooperation in the field of intellectual property. This interest, by the way, extends not only to purely legal matters, but also to the program of development cooperation of WIPO. That program is carried out, in respect of the developing countries of Asia and the Pacific, with the particular help of Australia, and I wish to use this occasion, if I may, to pay tribute to the Australian Government's generous participation, and indispensable advice, in our contacts with the developing countries of South East Asia and the Pacific.

I also wish to thank and welcome the participants. They all came at their own expense, using their most valuable professional time. The sacrifice is much appreciated. I hope that you will find the meeting worthwhile.

Finally, I should like to thank, in the name of all of us, our Australian hosts for the organization—whose superb quality is already evident—and for their well-known, friendly hospitality.

## General Studies

### **Recent U.S. Legislation on Patents and Trademarks**

G.J. MOSSINGHOFF\*

















## News from Industrial Property Offices

### National and Regional Industrial Property Offices

The following list of national and regional industrial property offices was established in April 1984 and is based on the *Directory of National and Regional Industrial Property Offices* published by WIPO. It includes all the countries in which, according to information in WIPO's possession, there is an industrial property office, as well as four regional industrial property organizations.

The list is presented in alphabetical order according to country; the regional industrial property organizations appear at the end of the list. For each entry, the following information is included: the name of the competent administration; the address of the administration; the title and name (where available) of the head of the administration. In countries where patent and trademark matters are dealt with in separate administrations, two entries are provided.

#### ALGERIA

Algerian Institute for Standardization and Industrial Property (INAPI)

5, rue Abou Hamou Moussa  
Boite postale 1021  
Algiers

Directeur général: Dine Hadj-Sadok

#### ANGOLA

National Institute of Intellectual Property  
Secretariat of State for Culture

18, Conselheiro Júlio de Vilhena  
Caixa Postal No. 1252  
Luanda

Director: António Afonso dos Santos

#### ANTIGUA AND BARBUDA

The Registrar's Office

St. John's  
Registrar

#### ARGENTINA

National Directorate of Industrial Property  
Secretariat of Industry and Mines  
Ministry of Economic Affairs

Diagonal Julio A. Roca 651 - 2° s.s.  
1322 Buenos Aires

Director Nacional de la Propiedad Industrial: Dr. Miguel Roque Solanet

#### AUSTRALIA

Patent, Trade Marks and Designs Office  
Department of Science and Technology

Scarborough House  
Phillip, A.C.T.  
P.O. Box 200  
Woden, A.C.T. 2606

Acting Commissioner of Patents,  
Registrar of Trade Marks and Designs: Pat Smith

#### AUSTRIA

Austrian Patent Office  
Federal Ministry of Commerce, Trade and Industry

Kohlmarkt 8-10  
Postfach 95  
A-1014 Vienna

President of the Austrian Patent Office,  
Director General of the Industrial Property Department:  
Professor Dr. Otto Leberl

#### BAHAMAS

Registrar General's Office  
Ministry of Economic Affairs

6th Floor, General Post Office Bldg.  
East Hill Street  
P.O. Box N 532  
Nassau

Registrar General: S.A. Bonaby (Mrs.)

#### BAHRAIN

Registry of Industrial Property  
Directorate of Commerce and Companies Affairs  
Ministry of Commerce and Agriculture

P.O. Box 5479  
Manama

Registrar: Hassan Al Mukharaq

#### BANGLADESH (Patents)

The Patent Office  
Commerce Division  
Ministry of Industries and Commerce

Moon Mansion, 5th Floor  
12/K Dilkusha Commercial Area  
Dhaka 2

Controller of Patents and Designs: Mahfuzur Rahman Khan

#### BANGLADESH (Marks)

Trade Marks Registry  
Ministry of Commerce

21/2, Khiljee Road  
Mohammadpur  
Dhaka 7  
Registrar of Trade Marks: Md. Moazzam M. Hussain

## BARBADOS

Registrar of the Supreme Court  
Ministry of Legal Affairs  
Coleridge Street  
Bridgetown

## BELGIUM

Industrial and Commercial Property Service  
Administration of Commerce  
Ministry of Economic Affairs  
24-26, rue J.A. De Mot  
B-1040 Brussels  
Directeur du Service de la propriété industrielle et commerciale: Léopold Wuyts

## BENIN

Industrial Property Service  
Directorate of Industry  
Ministry of Industry, Mining and Energy  
Boîte postale 363  
Cotonou  
Chef du Service de la propriété industrielle: Noua Akambi

## BOLIVIA

Industrial Property Department  
General Directorate of Standards and Technology  
Ministry of Industry, Commerce and Tourism  
Avenida Eliodoro Camacho 1488  
Casilla 4430  
La Paz  
Jefe del Departamento de Propiedad Industrial: Dra. Rosario Jordan Aguilera

## BOTSWANA

Department of the Registrar of Companies, Trade Marks, Patents and Designs  
Ministry of Commerce and Industry  
P.O. Box 102  
Gaborone  
Registrar of Companies

## BRAZIL

National Institute of Industrial Property  
Ministry of Industry and Trade  
Praça Mauá 7 - 11º Andar  
20.081 Rio de Janeiro - R.J.  
President: Arthur Carlos Bandeira

## BULGARIA

Institute of Inventions and Rationalizations  
State Committee for Science and Technical Progress  
Boul. G.A. Nasser 52b  
1156 Sofia  
Director General: Dr. Ing. Kristo Iliev

## BURUNDI

Industrial Property and Transfer of Technology Service  
Department of Industry  
Ministry of Trade and Industry

Boîte postale 492  
Bujumbura  
Service de la propriété industrielle et transfert de technologie: Valérie Siniremera (Mme)

## CAMEROON

Industrial Property Service  
Department of Industry  
Ministry of Commerce and Industry  
Boîte postale 1604  
Yaoundé  
Chef du Service de la propriété industrielle: Jean O. Tigbo

## CANADA

Intellectual Property Directorate  
Bureau of Corporate Affairs  
Department of Consumer and Corporate Affairs  
Place du Portage I - 5th Floor, Zone 1  
50 Victoria Street  
Hull, Québec K1A 0E1  
Director General, Intellectual Property; Commissioner of Patents, Registrar of Trademarks: J.H.A. Gariépy

## CENTRAL AFRICAN REPUBLIC

National Industrial Property Service  
Directorate of Industrial Development and Handicraft  
Ministry of Commerce and Industry  
B.P. 1086  
Bangui  
Responsable du Service national de la propriété industrielle: Amon Lougo-Dino

## CHAD

National Service of Industrial Property  
Directorate of Industry  
Ministry of Economic Affairs and Trade  
B.P. 424  
Njamena  
Responsable national de la propriété industrielle: Madlongar Mbaitougaro

## CHILE

Industrial Property Department  
Under-Secretariat for Economic Affairs  
Ministry of Economic Affairs, Development and Reconstruction  
Teatinos No 120, 11º piso, Oficina 22  
Santiago  
Jefe del Departamento de Propiedad Industrial: Dr. Juan Enrique Ortúzar Latapiat

## CHINA (Patents)

Patent Office of the People's Republic of China  
State Economic Commission  
Fucheng Road  
P.O. Box 168  
Beijing  
Director General: Huang Kunyi

## CHINA (Marks)

Trademark Office  
State Administration for Industry and Commerce of the People's Republic of China

10 Sanlihe Donglu  
Xichengqu  
Beijing  
Director of Trademark Office: Li Jizhong

## COLOMBIA

Industrial Property Division  
Directorate General of Industry and Commerce  
Ministry of Economic Development

Edificio Lara  
Carrera 13 No 13-24, Oficina 810  
Bogotá

Jefe de la División de Propiedad Industrial: Dra. Luz C. Suárez de Paz

## CONGO

National Industrial Property Unit  
Directorate General of Industry  
Ministry of Industry and Fisheries

Boîte postale 211  
Brazzaville

Chef, Antenne nationale de la propriété industrielle: Daniel Ngassaki

## COSTA RICA

Industrial Property Registry  
National Registry  
Ministry of Justice

Apartado postal 60  
2010 Zapote  
San José

Directora de Propiedad Industrial: Lic. Anabelle Castro Granados (Sra.)

## CUBA

National Office of Inventions, Technical Information and Marks  
Academy of Science

Calle 13 No 409 - Esq. a F  
Vedado  
Havana

Director. ONIITEM: Ing. Mario Fernández Finalé

## CYPRUS

Department of the Official Receiver and Registrar  
Ministry of Commerce and Industry

9, Byron Avenue  
P.O. Box 1720  
Nicosia

Official Receiver and Registrar: Takis L. Christodoulides

## CZECHOSLOVAKIA (Patents)

Office for Inventions and Discoveries

19. Václavské nám.  
113 46 Prague 1 - Nové Město

President: Ing. Miroslav Bělohávek

## CZECHOSLOVAKIA (Marks)

Trademarks and Industrial Designs Division  
Office for Inventions and Discoveries

10. U půjčovny  
110 00 Prague 1 - Nové Město

President: Ing. Miroslav Bělohávek

## DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA

Invention Committee of the Democratic People's Republic of Korea

Sosong guyok Zangsan Street Ryonmod Dong  
Pyongyang

Secretary General: Pyon Jong Ryob

## DEMOCRATIC YEMEN

Registrar General's Office  
Ministry of Justice

P.O. Box 5030  
El Maalla  
Aden

Registrar of Trade Marks, Patents and Designs: Hussein N.M. Momin

## DENMARK

Patent and Trademark Office  
Ministry of Industry

45. Nyropsgade  
1602 Copenhagen V

Director of the Patent Office: Karl Skjødt

## DOMINICAN REPUBLIC

Industrial Property Registry Department  
State Secretariat for Industry and Commerce

Edificio de Oficinas Gubernamentales, 7° Piso  
Av. Francia, esquina Leopoldo Navarro  
Santo Domingo

Directora: Dra. Georgina Portes Zarzuela

## ECUADOR

Directorate General of Industrial Property  
Subsecretariat for Integration  
Ministry of Industry, Trade and Integration

Calles Roca No 533 y Juan León Mera  
Apartado postal No 194-A  
Quito

Director General de la Propiedad Industrial: Dr. Hernán Calisto Ruiz

## EGYPT (Patents)

Patent Office  
Academy of Scientific Research and Technology

101 Kasr El-Eini Street  
11516 Cairo

Under Secretary and President of the Patent Office: Eng. Ahmed Aly Omar

## EGYPT (Marks)

Administration of Commercial Registration  
Ministry of Supply and Internal Trade

El Tamwin Post Office  
99 Kasr El-Eini Street  
Cairo

Chairman, Administration of Commercial Registration: Ibrahim Fahmi Salem

## EL SALVADOR

Department of Trademark, Patent, Copyright, Name and Commercial Sign Registration

Ministry of Justice—Commercial Registry

3ª Av. Norte y 1ª Calle Poniente  
San Salvador

Registrador de la Propiedad Intelectual: Dr. Miguel Angel Gómez

**FIJI**

Administrator-General's Department  
Crown Law Office

Government Buildings  
Box 2226  
Suva

Administrator-General: Devendra Pathik

**FINLAND**

National Board of Patents and Registration

Albertinkatu 25  
P.O. Box 18154  
SF-00180 Helsinki 18

Director General: Timo Kivi-Koskinen

**FRANCE**

National Institute of Industrial Property

26bis, rue de Léningrad  
F-75800 Paris Cédex 08

Directeur: Jean-Claude Combaldieu

**GABON**

Directorate of Industry  
Ministry of Trade and Industry

B.P. 237  
Libreville

Chargé de la propriété industrielle: Jean Paulin Mve Ntème

**GAMBIA**

Attorney General's Chambers  
Registrar General's Office  
Ministry of Justice

Marina Parade  
Banjul

Registrar General: Raymond C. Sock

**GERMAN DEMOCRATIC REPUBLIC**

Office for Inventions and Patents of the German Democratic Republic

Mohrenstrasse 37b  
P.O. Box 1285  
1086 Berlin

President: Prof. Dr. Joachim Hemmerling

**GERMANY (FEDERAL REPUBLIC OF)**

German Patent Office

Zweibrückenstrasse 12  
8000 Munich 2

President: Dr. Erich Häusser

**GHANA**

Registrar-General's Department  
Ministry of Justice

P.O. Box 118  
Accra

Registrar-General: Dominic M. Mills

**GREECE (Patents)**

Section of Patents  
Ministry of Research and Technology

Ermou 2  
Athens

Dr. P.N. Koroyannakis

**GREECE (Marks)**

Directorate of Commercial and Industrial Property  
Ministry of Commerce

Canning Square  
Athens

Director: Emile Tiranias

**GRENADA**

Office of the Registrar  
Attorney-General's Chambers

St. George's

Registrar: Ernest Wilkinson

**GUATEMALA**

Registry of Industrial Property  
Ministry of Economic Affairs

6a. Avenida 11-43, Zona 1  
Edificio Pan Am, 3er Nivel  
Guatemala

Registrador de la Propiedad Industrial: Victor Lubeck Rivas Fajardo

**GUINEA**

Ministry of Industry

B.P. 468  
Conakry

Ministre de l'industrie: Capitaine Mohamed Lamine Sakho

**GUYANA**

Solicitor-General's Office  
Ministry of Justice

Deeds Registry  
Law Court Buildings  
Georgetown

Head of Industrial Property Office: John Wesley Ramao

**HAITI**

Industrial Property Office  
Department of Commerce and Industry  
State Secretariat for Trade and Industry

Rue Légitime 5  
Port-au-Prince

Directeur général du commerce et de l'industrie: Carl Férailleur

**HONDURAS**

Industrial Property Registry  
Directorate General of Industries  
Secretariat for Economic Affairs

Edificio Faraj, 4 Piso  
Tegucigalpa D.C.

Registrador de la Propiedad Industrial: Lic. Camilo Z. Bendeck Pérez

**HUNGARY**

National Office of Inventions

Garibaldi u. 2  
P.B. 552  
H-1370 Budapest 5  
President: Dr. Gyula Pusztai

## ICELAND

Patent and Trademark Office  
Ministry for Industry  
Amarhvoli  
101 Reykjavik  
Secretary General: Páll Flygenring

## INDIA (Patents)

Patent Office  
Government of India  
214, Acharya Jagadish Bose Road  
Calcutta 700-017  
Controller-General of Patents, Designs and Trade Marks

## INDIA (Marks)

Controller-General of Patents, Designs and Trade Marks  
Government of India  
Central Government Building  
Maharshi Karve Road  
Bombay 400 020  
Controller-General of Patents, Designs and Trade Marks

## INDONESIA

Directorate of Patent and Copyright  
General Directorate of Law and Legislation  
Department of Justice  
Jl. Veteran III/8-A  
Jakarta I/4  
Director: Supjan Suradimadja

## IRAN (ISLAMIC REPUBLIC OF)

Registration Department for Companies and Industrial Property  
Khiabane Khaiyam—Khiabane Varzesh  
Sazemane Sabte Asnad va Amlake Keshwar  
Teheran  
Director General: Parviz Ahadi

## IRAQ

Industrial Property Division  
Central Organization for Standardization and Quality Control  
Ministry of Planning  
P.O. Box 13032  
Al Jadria  
Baghdad  
Director of the Industrial Property Division: Hasson Abdul Rahman  
Abdul Razak

## IRELAND

Patents Office  
Department of Industry, Trade, Commerce and Tourism  
45, Merrion Square  
Dublin 2  
Controller of Patents, Designs and Trade Marks: Sean Fitzpatrick

## ISRAEL

Patent Office  
Ministry of Justice

Clal Centre  
Jaffa Road 97  
P.O. Box 767  
Jerusalem 91007

Commissioner of Patents, Designs and Trade Marks: Yoel Arnon  
Tsur

## ITALY

Central Patent Office  
Ministry of Industry, Commerce and Handicraft  
19, via Molise  
00187 Rome  
Director: Prof. Sebastiano Samperi

## IVORY COAST

Directorate of Standards and Technology  
Ministry of Industry  
B.P. V 65  
Abidjan  
Directeur de la normalisation et de la technologie

## JAMAICA

Office of the Registrar of Companies  
Ministry of Industry and Commerce  
11 King Street  
P.O. Box 877  
Kingston  
Registrar of Companies: Gloria Elaine Edwards (Mrs.)

## JAPAN

Japanese Patent Office  
4-3 Kasumigaseki 3-chome  
Chiyoda-ku  
Tokyo  
Director General: Kazuo Wakasugi

## JORDAN

Section for the Protection of Industrial and Commercial Property  
Ministry of Industry and Trade  
El-Difrah El Madani Street  
P.O. Box 2019  
Amman  
Registrar of Patents, Designs and Trade Marks: Khair Baido

## KENYA

Department of the Registrar-General  
P.O. Box 30031  
Nairobi  
Registrar of Trade Marks and Patents: Joseph Nguthiru King'arui

## KUWAIT

Commercial Registration Authority  
Ministry of Commerce and Industry  
P.O. Box 2944  
Kuwait  
Commercial Registrar: Hussein Abul Malh

## LEBANON

Office for the Protection of Commercial, Industrial, Artistic, Literary  
and Musical Property  
Rue Artois  
El-Hamra

- Beirut**  
 Chef a.i. de l'Office: Mouhyeddine Tabbara
- LESOTHO**  
 Registrar General's Office  
 Law Office  
 P.O. Box 33  
 Maseru 100  
 Registrar-General: Keorapetse Ray Hlalele (Mrs.)
- LIBERIA**  
 Bureau of Patents, Trade Marks and Copyright  
 National Central Archives  
 Ministry of Foreign Affairs  
 Monrovia  
 Director of Archives, Patents, Trade Marks and Copyright: Robert M. Gray
- LIBYA (Patents)**  
 Patent Office  
 Secretariat for Industry and Mineral Wealth  
 Al-Jamahiriya Street  
 Tripoli  
 Head of Patent Office: Ghalia Chaabane (Mrs.)
- LIBYA (Marks)**  
 Directorate of Company Registration  
 Secretariat for Commerce  
 Al-Jamahiriya Street  
 Tripoli  
 Head of Company Registration: Salem Mohammed Rabt
- LIECHTENSTEIN**  
 Intellectual Property Office  
 FL-9490 Vaduz  
 Directeur: Benno Beck
- LUXEMBOURG**  
 Intellectual Property Office  
 Ministry of the Economy and Middle Classes  
 19-21, Boulevard Royal  
 Case postale 97  
 Luxembourg Ville  
 Inspecteur principal, Directeur du Service de la propriété intellectuelle: Fernand Schlessler
- MADAGASCAR**  
 Directorate of Industry  
 Ministry of Economy and Trade  
 B.P. 527  
 Antananarivo  
 Directeur de l'industrie: Gérard Reajaonary
- MALAWI**  
 Department of the Registrar General  
 Ministry of Justice  
 P.O. Box 100  
 Blantyre  
 Registrar of Patents, Trade Marks and Designs: Pondomo Arnold Msiska
- MALAYSIA**  
 Registry of Trade Marks and Patents  
 Ministry of Trade and Industry  
 Block 10  
 Jalan Duta  
 Kuala Lumpur  
 Registrar of Trade Marks and Patents: Noriah Abidin (Mrs.)
- MALI**  
 National Directorate of Industries  
 Ministry of State for Equipment  
 Boîte postale 278  
 Bamako  
 Directeur général des industries: Kadari Bamba
- MALTA**  
 Department of Trade  
 Ministry of Economic Development  
 Lascaris  
 Valletta  
 Comptroller of Industrial Property: Joseph Zammit
- MAURITANIA**  
 Directorate of Industry  
 Ministry of Commerce and Industry  
 B.P. 387  
 Nouakchott  
 Chef de la structure nationale de la propriété industrielle: Tarou Soudani
- MAURITIUS (Patents)**  
 Ministry of Trade and Shipping  
 4th Level, New Government Centre  
 Port-Louis  
 Permanent Secretary, Ministry of Trade and Shipping: Jacques Ruben Rosalie
- MAURITIUS (Marks)**  
 The Comptroller of Customs  
 Customs & Excise Department  
 Port-Louis  
 Comptroller of Customs: G. Stanley
- MEXICO**  
 Directorate General of Inventions, Marks and Technological Development  
 Under-Secretary for Industrial Development  
 Secretariat for Trade and Industrial Development  
 Salvador Alvarado 56, 6° piso  
 Col. Escandón  
 11800 Mexico, D.F.  
 Director General: Lic. Jaime Alvarez Soberanis
- MONACO**  
 Directorate of Commerce, Industry and Industrial Property  
 Department of Finance and the Economy  
 8, rue Louis Notari  
 98 000 Monaco (Principauté)  
 Directeur: Etienne Franzi
- MONGOLIA**  
 Industrial Property Department

State Committee for Science and Technology  
Council of Ministers of the Mongolian People's Republic  
49, Kolarov Street  
Ulan Bator  
Head, Industrial Property Department: Tzerendolgar Hasbator

## MOROCCO

Moroccan Industrial Property Office  
Ministry of Trade, Industry and Tourism  
8, rue Saint-Dié  
Casablanca  
Directeur de l'Office marocain de la propriété industrielle: Saïd Abderrazik

## NETHERLANDS

Patent Office—Octrooiraad  
Ministry of Economic Affairs  
Patentlaan 2—Plaspolder  
Postbus 5820  
2280 HV Rijswijk (ZH)  
President of the Patent Office (Octrooiraad): Jacob Jan Bos

## NEW ZEALAND

The Patent Office  
Department of Justice  
Levin House - 330 High Street  
Private Bag  
Lower Hutt  
Commissioner of Patents, Trade Marks and Designs: Kenneth Sidney Dalefield

## NICARAGUA

Industrial Property Registry  
Ministry of Justice  
Apartado postal 2361  
Managua  
Registrador de la Propiedad Industrial: Dra. María Soledad Pérez González

## NIGER

Directorate of Industry and Handicraft  
Ministry of Mining and Industries  
B.P. 720  
Niamey  
Directeur: Ibrahim Tamponé

## NIGERIA

Trade Marks, Patents and Designs Section  
Commercial Law Division  
Federal Ministry of Commerce  
New Secretariat  
Ikoyi  
Lagos  
Registrar: O. Adeniji

## NORWAY

Norwegian Patent Office  
Ministry of Justice  
Postboks 8160 Dep.  
N-0033 Oslo 1  
Director General: Arne Georg Gerhardsen

## OMAN

Directorate of Commercial Registration  
Ministry of Commerce and Industry  
P.O. Box 550  
Muscat  
Director of Commercial Registration: Zahir Taisseer

## PAKISTAN (Patents)

Patent Office  
Ministry of Industries  
Maqbool Chambers  
Shaheed-i-Millat Road  
Karachi 8  
Controller of Patents and Designs: Mohammad Zafar

## PAKISTAN (Marks)

Trade Marks Registry  
Ministry of Commerce  
67, Muslimabad  
Dadabhai Naoroji Road  
Karachi 5  
Registrar of Trade Marks: Riaz Ahmed Malik

## PANAMA

Directorate General of the Industrial Property Registry  
National Directorate of Commerce  
Ministry of Commerce and Industries  
Edificio Lotería Nacional de Beneficencia, Piso 17  
Apartado 9658 - Zona 4  
Panama 4  
Director General: Juan José Ferrán

## PAPUA NEW GUINEA

Office of the Registrar-General  
P.O. Box 1281  
Port Moresby  
Registrar General: Kere Moi

## PARAGUAY

Directorate General of Industrial Property  
Ministry of Industry and Commerce  
Coronel Bogado 871  
Asunción  
Director: Dr. Ramón Alberto Bogado Vásquez

## PERU

Industrial Property Directorate  
Institute for Industrial Technological Research and Technical Standards (ITINTEC)  
Jirón Morelli, 2ª cuadra  
Apartado 145 - San Borja, Surquillo  
Lima 34  
Director de Propiedad Industrial: Dr. Guillermo Valdivia Manchego

## PHILIPPINES

Philippine Patent Office  
Ministry of Trade and Industry  
Midland Buendia Bldg.  
403 Gil Puyat Ave.  
Makati  
Metro Manila  
Director of Patents: Cesar C. Sandiego

## POLAND

Patent Office of the Polish People's Republic  
Aleja Niepodleglosci 188/192  
P.O. Box 203  
00-950 Warsaw  
President: Dr. Jacek Szomański

## PORTUGAL

National Institute of Industrial Property  
State Secretariat for Industry  
Ministry of Industry and Energy  
Campo das Cebolas  
1100 Lisbon  
Director General: Eng. José Mota Maia

## QATAR

Trade Marks Office  
Department of Commercial Registration  
Directorate of Commercial Affairs  
Ministry of Economy and Commerce  
P.O. Box 1968  
Doha  
Director of Commercial Affairs and Controller General of  
Commercial Registration: Ali H. Khalaf

## REPUBLIC OF KOREA

Office of Patents Administration  
Ministry of Commerce and Industry  
58-3 Seocho-Dong  
Kangnam-Ku  
Seoul 135  
Administrator: Sung Jua Hong

## ROMANIA

State Office for Inventions and Trademarks  
5, rue Ion Ghica - Sect. 4  
B.P. 52  
70418 Bucharest 3  
Directeur: Ion Marinescu

## RWANDA

Industrial Property Service  
Ministry of Economic Affairs and Commerce  
B.P. 73  
Kigali  
Chef du Service de la propriété industrielle: T. Uzabakiliho

## SAINT CHRISTOPHER AND NEVIS

Attorney-General's Chambers  
Ministry of Justice  
Government Headquarters  
P.O. Box 164  
Basseterre  
St. Kitts, W.I.  
Attorney-General: S.W. Tapley Seaton

## SAINT VINCENT AND THE GRENADINES

Attorney-General's Department  
Ministry of Legal Affairs  
Kingston  
Attorney-General and Minister of Legal Affairs: Grafton C. Isaacs

## SAMOA

Patents, Trade Marks and Companies Section  
Justice Department  
P.O. Box 49  
Apia  
Acting Secretary, Department of Justice, Registrar of Patents, Trade  
Marks and Industrial Designs: P.M. Asera

## SAN MARINO

Economic and Social Affairs Office  
State Secretariat for External and Political Affairs  
Palazzo Begni-Belluzzi  
San Marino  
Dirigente Ufficio Affari Economico-sociali: Dott. Pietro Giacomini

## SAUDI ARABIA (Patents)

Patent Office  
Saudi Arabian National Center for Science and Technology  
P.O. Box 6086  
Riyadh 11442  
Acting Director of the Patent Office: Dr. Mohammed Ahmed  
Tarabzouni

## SAUDI ARABIA (Marks)

Industrial Property Protection Section  
Department of Internal Trade  
Ministry of Commerce  
Riyadh  
Head of Section: Nawar Al Atibi

## SENEGAL

Directorate of Industry  
Ministry of Industrial Development and Handicraft  
B.P. 3179  
Dakar  
Directeur de l'Industrie: Simon Diop

## SEYCHELLES

Registrar of Patents and Trade Marks  
Registration Division  
Department of Legal Affairs  
P.O. Box 142  
Mahé  
Registrar General and Registrar of Patents and Trade Marks:  
F. Chang-Sam

## SIERRA LEONE

Administrator and Registrar-General's Department  
Roxy Building  
Walpole Street  
Freetown  
Acting Administrator and Registrar-General: Salimatu Koroma  
(Miss)

## SINGAPORE

Registry of Trade Marks and Patents  
305 Tanglin Road  
Singapore 1024  
Registrar of Trade Marks and Patents: Ang Koon Hian (Mrs.)

## SOLOMON ISLANDS

Registrar-General's Office  
Ministry of Police and Justice

P.O. Box G 15  
Honiara — Guadalcanal  
Registrar-General: H.J. Broughton

## SOMALIA

Patents and Trade Marks Office  
Ministry of Industry  
P.O. Box 928  
Mogadishu  
Registrar of Patents and Trade Marks: Halima Kulmie Warsame  
(Mrs.)

## SOUTH AFRICA

Office of the Registrar of Patents, Trade Marks, Designs and Copyright  
Department of Industries and Commerce  
Zanza Buildings, 116 Proes Street  
Private Bag X400  
0001 Pretoria  
Registrar of Patents, Trade Marks, Designs and Copyright:  
H.J. Coetzee

## SOVIET UNION

USSR State Committee for Inventions and Discoveries  
M. Cherkassky per. 2/6  
Moscow (Centre), GSP, 103621  
Chairman: Ivan S. Nayashkov

## SPAIN

Industrial Property Registry  
Ministry of Industry and Energy  
Calle de Panamá 1  
Madrid 16  
Director General del Registro de la Propiedad Industrial: Julio  
Delicado Montero-Rios

## SRI LANKA

Registry of Patents and Trade Marks  
5th Floor  
267 Union Place  
Colombo 2  
Registrar of Patents and Trade Marks: Kirthisiri Jayasinghe

## SUDAN

Commercial Registrar General's Office  
Attorney General's Chambers  
P.O. Box 744  
Khartoum  
Commercial Registrar General: Ali Mohamed Osman Yassin

## SURINAME

Bureau for Industrial Property in Suriname  
Ministry of Justice  
Mr. F.L. Lim A Postraat No. 4 boven  
P.O. Box 3014  
Paramaribo  
Attorney-General, Director of the Bureau for Industrial Property:  
Dr. R.M. Reeder

## SWAZILAND

Registrar General's Office  
Ministry of Justice

Mbabane House  
P.O. Box 460  
Mbabane  
Registrar General: Edgar S. Kumalo

## SWEDEN

Royal Patent and Registration Office  
Ministry of Industry  
Valhallavägen 136  
P.O. Box 5055  
S-102 42 Stockholm 5  
Director General: Göran Borggård

## SWITZERLAND

Swiss Intellectual Property Office  
Einsteinstrasse 2  
3003 Berne  
Directeur: Paul Braendli

## SYRIA

Directorate of Commercial and Industrial Property  
Ministry of Supply and Internal Trade  
Rue Salhia  
Damascus  
Directeur de la propriété commerciale et industrielle: Motih Husni

## TANZANIA

Department of Registration(s) and Commercial Laws  
Ministry of Trade  
10th Floor Co-operative Building  
Lumumba Street  
P.O. Box 9393  
Dar es Salaam  
Registrar: Richard Benjamin Mngulwi

## THAILAND

Patent and Trademark Division  
Department of Commercial Registration  
Ministry of Commerce  
Thanon Maharaj  
Bangkok 10200  
Director-General, Department of Commercial Registration: Chare  
Chutharatkul

## TOGO

Directorate of Industry  
Ministry of Plan, Industry and of Administrative Reform  
B.P. 831  
Lomé  
Chef de la Division de la propriété industrielle: Kato Koakou

## TRINIDAD AND TOBAGO

Registrar General's Department  
Red House  
P.O. Box 390  
Port of Spain  
Registrar General: Errol D.S. Braithwaite

## TUNISIA

National Institute for Standardization and Industrial Property  
Ministry of National Economy

B.P. 23  
1012 Tunis Belvédère

Président Directeur général: Ali Ben Gääd

## TURKEY

Department of Industrial Property  
Ministry of Industry and Technology

Tandogân  
Ankara

President of the Industrial Property Department: Metin Çetin

## UGANDA

Registrar General's Department  
Ministry of Justice

Parliamentary Buildings  
P.O. Box 7151  
Kampala

Acting Registrar General: G.A.M. Ndagije

## UNITED KINGDOM

The Patent Office  
Department of Trade and Industry

25, Southampton Buildings  
London WC2A 1AY

The Comptroller-General of Patents, Designs and Trade Marks:  
Ivor J.G. Davis, C.B.

## UNITED STATES OF AMERICA

Patent and Trademark Office  
United States Department of Commerce

Washington, D.C. 20231

Assistant Secretary of Commerce and Commissioner of Patents and  
Trademarks: Gerald J. Mossinghoff

## UPPER VOLTA

Directorate General of Industry and Handicraft  
Ministry of Commerce, Industrial Development and Mining

B.P. 258  
Ouagadougou

Chef de la structure de la propriété industrielle: Marie Blanche Bado  
(Mme)

## URUGUAY

Industrial Property Directorate  
Ministry of Industry and Energy

Rincón 719  
Montevideo

Interventor, Dirección de la Propiedad Industrial: Dr. Julio E.  
Marmolejo

## VANUATU

Office of the Registrar - Receiver General

P.O. Box 92  
Port Vila

Registrar - Receiver General: Stanley Uren

## VENEZUELA

Industrial Property Registry  
Ministry of Development

Centro Simón Bolívar  
7° piso de la Torre Sur  
Caracas 1010

Registrador de la Propiedad Industrial: Dra. Haydée Maradei de  
García

## VIET NAM

National Office on Inventions  
State Committee for Science and Technology

39 Tran Hung Dao  
Hanoi

Director: Dr. An Khang

## YEMEN

Department of the Registry and Trademarks  
Directorate of Companies and Commercial Registration  
Ministry of Economic Affairs

Sanaa

Director of the Department of the Registry and Trademarks:  
Aly Mohamed Thabet

## YUGOSLAVIA

Federal Patent Office

Uzun Mirkova 1  
11001 Belgrade

Director

## ZAIRE

Industrial Property Office  
Directorate of Industry  
Department of the National Economy, Industry and External Trade

Boulevard Colonel Tshatshi No 60  
Kinshasa/Gombe

Chef du Service de la propriété industrielle: Mukuna Kakolela

## ZAMBIA

Registrar of Patents, Trade Marks and Designs  
Ministry of Commerce and Industry

Kwacha Annex House  
Cairo Road  
P.O. Box 32075  
Lusaka

Registrar: Anderson Ray Zikonda

## ZIMBABWE

Office of the Controller of Patents, Trade Marks and Industrial  
Designs

Ministry of Justice, Legal and Parliamentary Affairs

Electra House  
Samora Machel Avenue  
P.O. Box 8033, Causeway  
Harare

Controller of Patents, Trade Marks and Industrial Designs:  
Ronald Pearson Moul

\* \* \*

AFRICAN INTELLECTUAL PROPERTY ORGANIZATION  
(OAPI)

Place de la Préfecture  
B.P. 887  
Yaoundé  
Cameroon

Directeur général: Denis Ekani

BENELUX TRADEMARK OFFICE  
BENELUX DESIGNS OFFICE  
(BBM-BBDM)

Bankastraal 151  
2585 EM The Hague  
Netherlands

Directeur: Dr. L.J.M. van Bauwel

EUROPEAN PATENT OFFICE  
(EPO)

Erhardtstrasse 27

D-8000 Munich 2  
Federal Republic of Germany

President: Dr. h.c. J.B. van Benthem

INDUSTRIAL PROPERTY ORGANIZATION FOR ENGLISH-SPEAKING  
AFRICA  
(ESARIPO)

P.O. Box 4228

Harare  
Zimbabwe

Director: J.H. Ntabgoba

# Calendar of Meetings

## WIPO Meetings

(Not all WIPO meetings are listed. Dates are subject to possible change.)

### 1984

- September 17 and 19 (Geneva) — Permanent Committee on Patent Information (PCPI) — Working Group on Developing Countries  
 September 18 to 21 (Geneva) — Permanent Committee for Development Cooperation Related to Industrial Property  
 September 18 to 21 (Geneva) — Permanent Committee on Patent Information (PCPI)  
 September 24 to 28 (Geneva) — Ordinary Sessions of the Coordination Committee of WIPO and the Executive Committees of the Paris and Berne Unions; Paris Union Assembly (Extraordinary Session); PCT Union Assembly (Extraordinary Session)  
 October 8 to 10 (Doha) — Regional Committee of Experts on Means of Implementation in Arab States of Model Provisions on Intellectual Property Aspects of Protection of Expressions of Folklore (convened jointly with Unesco)  
 October 15 to 19 (Geneva) — Nice Union — Preparatory Working Group  
 October 22 to 26 (Geneva) — Committee of Experts on the Question of Copyright Ownership and its Consequences for the Relations between Employers and Employed or Salaried Authors (convened jointly with Unesco)  
 November 5 to 9 (Geneva) — Committee of Experts on Biotechnological Inventions  
 November 19 to 23 (Geneva) — Permanent Committee on Patent Information (PCPI) — Working Groups on Special Questions and on Planning  
 November 26 to 30 (Paris) — Committee of Experts on Copyright Problems Related to the Rental of Material Supports of Works (convened jointly with Unesco)  
 November 26 to 30 (Geneva) — International Patent Classification (IPC) Union — Committee of Experts  
 December 3 to 7(?) (Geneva) — Permanent Committee on Patent Information (PCPI) — Working Group on General Information  
 December 10 to 14 (Paris) — Group of Experts on the Intellectual Property Aspects of the Protection of Folklore at the International Level (convened jointly with Unesco)

### 1985

- September 23 to October 1 (Geneva) — Governing Bodies (WIPO General Assembly, Conference and Coordination Committee; Assemblies of the Paris, Madrid, Hague, Nice, Lisbon, Locarno, IPC, PCT, Budapest, TRI and Berne Unions; Conferences of Representatives of the Paris, Hague, Nice and Berne Unions; Executive Committees of the Paris and Berne Unions; Committee of Directors of the Madrid Union; Council of the Lisbon Union)

## UPOV Meetings

### 1984

- August 6 to 10 (Hanover) — Technical Working Party for Ornamental Plants and Forest Trees, and Subgroups  
 October 8 to 11 (Valencia) — Technical Working Party for Fruit Crops, and Subgroups  
 October 16 (Geneva) — Consultative Committee  
 October 17 to 19 (Geneva) — Council  
 November 6 and 7 (Geneva) — Technical Committee  
 November 8 and 9 (Geneva) — Administrative and Legal Committee

## Other Meetings Concerned with Industrial Property

### 1984

- Center for the International Study of Industrial Property: October 3 (Strasbourg) — "Demi-journée d'études sur la propriété industrielle et vingtième anniversaire du CEIPI"  
 European Patent Organisation: December 4 to 7 (Munich) — Administrative Council  
 International Federation for European Law: September 19 to 22 (The Hague) — 11th Congress  
 International League Against Unfair Competition: September 27 to 30 (Milan) — Congress  
 Pharmaceutical Trade Marks Group: October 18 and 19 (Toulouse) — 29th Conference

**1985**

**International Association for the Protection of Industrial Property:** May 13 to 19 (Rio de Janeiro) – Executive Committee

**International Federation of Industrial Property Attorneys:** June 3 to 7 (Augsburg) – World Congress

**Japanese Government:** April 18 and 19 (Tokyo) – Celebration and Symposium Commemorating the Centenary of the Japanese Industrial Property System

**1986**

**International Association for the Protection of Industrial Property:** June 8 to 13 (London) – XXXIII Congress