

ស្ត្រីអ្នកប្រែប្រួល

UITVINDSTERS

女性発明家

ERFINDERINNEN

المخترعات

여류 발명가들

女发明者

DONNE INVENTRICI

นักประดิษฐ์หญิง

Phu-nũ Sáng-Chê

FEMEI INVENTATOR

מאיצרות נשים

MUJERES INVENTORAS

ŽENĚ PRONALAZAČI

ŽENY VYNÁLEZKYŇE

महिला आविष्कारक

KVINDELIGE OPFINDERE

FELTALÁLO' NŐK

KVINNELIGE OPPFINNERE

မိန်းမများ၏ ဖန်တီးမှုများ

ЖЕНИ ИЗОБРЕТАТЕЛКИ

MULHERES INVENTORAS

KVINNLIGA UPPFINNARE

ΓΥΝΑΙΚΕΣ ΕΦΕΥΡΕΤΕΣ

Женщины изобретатели

**WOMEN INVENTORS
AWARDED A WIPO
GOLD MEDAL OR
OTHER DISTINCTION**

WOMEN INVENT

**WORLD INTELLECTUAL
PROPERTY ORGANIZATION**



“WOMEN INVENT”

WOMEN INVENTORS AWARDED A WIPO GOLD MEDAL OR OTHER DISTINCTION

Publication issued on the occasion of the opening of the
exhibition on women inventors, entitled
“Women Invent,”
organized by the World Intellectual Property Organization (WIPO)
Geneva (Switzerland), September 8, 1998, to March 31, 1999



WORLD INTELLECTUAL PROPERTY ORGANIZATION
Geneva 1998

WIPO PUBLICATION No. 864(E)
ISBN 92-805-0774-5

WIPO 1998

Cover illustration by Ms. Sophie Pfund-Jordi

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FOREWORD

This publication, which consists of a compilation of information about women inventors who have been awarded a WIPO Gold Medal or other distinction, is being issued on the occasion of the opening of the exhibition on women inventors, which is entitled "Women Invent" and is being organized by the World Intellectual Property Organization (WIPO) at its headquarters, in Geneva, Switzerland, from September 8, 1998 to March 31, 1999.

In 1979, WIPO introduced the WIPO Gold Medal award scheme for inventors, in recognition of their talents and contributions and to promote inventive activities, in particular, in developing countries.

The WIPO Gold Medal awards for inventors are made available, in most cases, on request by national, regional or international institutions, either on a regular or on an *ad hoc* basis. WIPO does not itself organize contests, neither does it select the persons to whom the WIPO Gold Medals are awarded. It leaves the selection of the winners to the organizers of the exhibition or competition, or to the institution that has requested the medal.

Since 1979, WIPO Gold Medals and other distinctions have been awarded to more than 475 inventors, from 73 countries. About twenty per cent of those inventors are women.

This publication compiles information about these women inventors (82 from 33 countries), in the alphabetical order of the countries of which they are nationals, indicating briefly such particulars as their date of birth, the category, title and occasion of the award, as well as the date and place of the award, the title and a short description of the invention, and any other pertinent data.

The compilation has been prepared by the Secretariat, on the basis of information available to date at WIPO, and cannot be considered exhaustive.

Most important to note, however, is that this publication does not consist merely of a compilation of information about women inventors who have been awarded a WIPO Gold Medal or other distinction. It is foremost a tribute to these women: to their creativity and commitment and to their contributions to the betterment of mankind. May they serve as a role model for future generations.



Kamil Idris
Director General
World Intellectual Property Organization

Geneva, July 1998

**WOMEN INVENTORS AWARDED A WIPO GOLD MEDAL
OR OTHER DISTINCTION, BY COUNTRY**

ALGERIA

Name: **Yamina Hamini Djeridane**
Date of birth: (information not available)

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: National Innovations Day
Place: Algiers, Algeria
Date: December 7, 1997

Invention: **Culture medium for isolating and identifying
corynebacterium diphtheriae**

Organizer: Organizing Committee of the National Innovations Day,
Algiers, Algeria

Other information:

ARGENTINA

Name:

Mirta Fasci

Date of birth: (information not available)

Category:

Technical/Social Invention/
Women Inventors

Title of award:

WIPO Gold Medal and Diploma (First Prize)

Occasion of award:

First National Women Inventors Contest

Place: Buenos Aires, Argentina

Date: April 1997

Invention:

Multi-purpose interconnectable modular container.

Organizer:

National Institute of Industrial Property (INPI)/Argentine
Association of Inventors (AAI)/IFIA

Other information:

ARGENTINA

Name: **Olga Gienini**
Date of birth: (information not available)

Category: Technical/Social Invention/
Women Inventors

Title of award: WIPO Diploma (Third Prize)

Occasion of award: First National Women Inventors Contest
Place: Buenos Aires, Argentina
Date: April 1997

Invention: **Oxygen generator for medical use.**

Organizer: National Institute of Industrial Property (INPI)/Argentine
Association of Inventors (AAI)/IFIA

Other information:

ARGENTINA

Name: **Silvia Schuster**
Date of birth: (information not available)

Category: Technical/Social Invention/
Women Inventors

Title of award: WIPO Diploma (Second Prize)

Occasion of award: First National Women Inventors Contest
Place: Buenos Aires, Argentina
Date: April 1997

Invention: **New rapid-filing system.**

Organizer: National Institute of Industrial Property (INPI)/Argentine
Association of Inventors (AAI)/IFIA

Other information:

AUSTRALIA

Name: **Joan Stuckey**
Date of birth: 1924

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 14th International Exhibition of Inventions and New Techniques
Place: Geneva, Switzerland
Date: April 1986

Invention: **“Push Cush” - Pressure distributing mattress overlay to reduce pain.**

Organizer: Organizing Committee of the International Exhibition of Inventions, Geneva, Switzerland

Other information: The pressure distributing mattress overlay is designed for use in hospitals as well as in homes by disabled persons who will have to be immobilized over a long period. Long immobilization (due to illness, burns, accidents, etc.) can result in destruction of flesh caused by compression damage to peripheral blood vessels (increased skin pressure) in the contact area. The design of the new mattress overlay is based on a principle of physics to control air flow and distribute body weight to minimize pressure. The new mattress overlay is relatively inexpensive, compared with water beds and electrically operated ripple mattresses, used currently for the same purpose. In addition, it is non-allergic, waterproof, light in weight and simple to install.

BULGARIA

Name:

Husnik Boyadjian

Date of birth: 19.02.1934

Category:

Best Woman Inventor

Title of award::

WIPO Gold Medal

Occasion of award:

3rd World Invention and Innovation Fair

Place: Casablanca, Morocco

Date: July 7, 1997

Invention:

Method of diagnosis and prognosis of liver diseases.

Organizer:

Morocco Invention, Casablanca, Morocco

Other information:

Bulgarian patent

N° 25537 (1997)

BULGARIA

Name: **Sia Mednikarova**
Date of birth: (information not available)

Category: Outstanding Women Inventors

Title of award: WIPO Gold Medal

Occasion of award: Exhibition of invention, research and
innovation:
EAST-WEST EURO INTELLECT
Place: Sofia, Bulgaria
Date: September 12 to 16, 1997

Invention: **Method and know-how for producing large-dimension
polymer elements.**

Organizer: EAST-WEST EURO INTELLECT
Organizers, Sofia, Bulgaria

Other information:

BULGARIA

Name: **Ana P. Pavlova**
Date of birth: 1949

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: Annual Exhibition "Invented in Sofia"
Place: Sofia, Bulgaria
Date: April 1987

Invention: **"Lactofol" - a suspension fertilizer for leaf nutrition of plants.**

Organizer: Sofia Municipal Council and Institute for Inventions and Rationalizations, Sofia, Bulgaria

Other information: The suspension fertilizer "Lactofol" was developed for leaf nutrition of agricultural plants. Its use results in an average 8 to 10% increase in the yields of wheat, and in an increase in protein content of the grains of 0.5 to 1%. The suspension fertilizer consists of a biotechnological product (liquid phase) and a solid phase comprising nutrient macro- and micro-elements. The presence of protein hydrolyzate (amino acids) in the fertilizer is yet another major advantage: assimilated by the plant, it joins its metabolism and accumulates in grains in the form of protein. Lactofol contains no filler chlorine ions and can be used in large doses without any harmful effect on plants. This constitutes a major advantage for small-scale application. The good consistency of the fertilizers makes possible its spraying by means of fine ejection equipment. The production of Lactofol is environmentally safe as the raw materials used for its production consist of waste material from the dairy industry. The fertilizer is absorbed by agricultural plants together with pesticides.

(The following inventors are part of the invention team:
Mr. **Kostadin K. Kostadinov**, Mr. **Plamen I. Trifonov**,
Mr. **Pavel Z. Bachvarov** and Mr. **Evgeni S. Ivanichkov**.)

BULGARIA

Name: **Iliana Ivanova Vasharova**
Date of birth: (information not available)

Category: Best Inventor

Title of award: WIPO Gold Medal

Occasion of award: “Invented in Sofia 89”
Place: Sofia, Bulgaria
Date: 1989

Invention: **Range of planetary wire-feeding devices from the IZAPLAN family.**

Organizer: Institute of Inventions and Rationalizations
Sofia, Bulgaria

Other information: The above devices consist of a wire-feeding unit, control, a hose with a torch, a mechanism for unwinding the electrode wire and a set of joining parts for the different models.

BULGARIA

Name: **Blagina K. Vassileva-Lukanova**
Date of birth: October 23, 1930

Category: Outstanding Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: Special WIPO award on the occasion of the conclusion of the United Nations Decade for Women (1976 - 1985)
Place: Sofia, Bulgaria
Date: May 1985

Invention: **Twenty-five inventions relating to antibiotics for humans, animals and plants and methods for their manufacture.**

Organizer: Central Council of the Bulgarian Trade Unions and Institute for Inventions and Rationalizations, Sofia, Bulgaria

Other information: The research and development work of Ms. Vassileva-Lukanova is chiefly in the field of pharmaceuticals and antibiotics and relates to the following: fermentation products, isolation and chemical purification of antibiotics for human and veterinary medicine and antibiotics for plant protection, research into chemical and enzyme transformation of antibiotic structures.

She participated in the development of significant inventions in the field of betalactame antibiotics related to the methods of preparation of a number of semi-synthetic penicillins and cephalosporins, methods of preparation of the macrolide antibiotic Tylosin, applied in prevention and treatment, in poultry, pigs, cattle, etc., of diseases caused by Mycoplasma, and the antibiotic Lavendotricin used for plant protection.

BURKINA FASO

Name: **Christine Nare**
Date of birth: (information not available)

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: Second National Invention and Innovation Fair of Burkina Faso
Place: Ouagadougou, Burkina Faso
Date: January 1997

Invention: **Process for producing wines from local cereals and fruit.**

Organizer: Ministry of Trade, Industry and Handicraft, Ouagadougou, Burkina Faso

Other information:

CANADA

Name: **Shelly Beauchamp**
Date of birth: (information not available)

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: Transtech International
Place: Montreal, Canada
Date: November 25, 1987

Invention: Women Inventor Project, a pilot project to encourage women to engage in scientific and technical research.

Organizer: WIPO, Geneva, Switzerland

Other information: Mrs. Shelly Beauchamp is a Senior Analyst at the Canadian Industrial Innovation Center.

CANADA

Name: **Anita Luszzak**
Date of birth: 1972

Category: Best project presented by a young scientist

Title of award: WIPO Gold Medal

Occasion of award: 26th Annual 1987 Canada-Wide Science Fair
Place: Mississauga, Ontario, Canada
Date: May 1987

Invention: **Pulsating generator.**

Organizer: Youth Science Foundation, Ottawa, Canada

Other information: Based on the study of the efficiency of an electrical generator governed by a pulsing exciter, Ms. Luszzak concluded that, by using pulse mode for generators, approximately 20% less energy is used to produce the same or a slightly increased output power for the same motor currents. These findings may prove to be highly beneficial to electric power companies, as they could reduce production costs while generating the same power output.

CHINA

Name: **Su Su Li**
Date of birth: (information not available)

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: '96 BEIJING INTERNATIONAL EXHIBITION OF INVENTIONS'

Place: Beijing, China

Date: September 18, 1996

Invention: **New device for testing stationary waves.**

Organizer: China Association of Inventions (CAI),
Beijing, China

Other information:

CHINA

Name: **Hua Zhen Liu**
Date of birth: 1936

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 19th International Exhibition of Inventions, New
Techniques and Products
Place: Geneva, Switzerland
Date: April 18, 1991

Invention: **Process for fermenting and extracting, and method of
identifying, the Fu Gu Tai fungus.**

Organizer: Organizing Committee of the International Exhibition of
Inventions, Geneva, Switzerland

Other information: The Fu Gu Tai produced with this method is a peptide
containing five amino acid residues. It is a very active,
non-toxic biological product that promotes nutrient
absorption and thereby increases the quantity of fungi
produced. The process is very simple.

CHINA

Name:

Hongyan Liu

Date of birth: 1973

Category:

Outstanding Young Inventor

Title of award:

WIPO Gold Medal

Occasion of award:

Third National Contest of Inventions of Children and Youth

Place: Lanzhou, China

Date: August 1986

Invention:

Instrument for dividing an angle into any number of equal parts.

Organizer:

China Association for Science and Technology (CAST),
Department of Children and Youth Affairs,
Sanlihe, Beijing, China

Other information:

For dividing an angle into equal parts, the bases of the vertices of a set of coinciding isosceles triangles are connected sequentially and every height of the triangles is cut into a thin slit. The instrument is based on the following mathematical principles:

- (a) if all heights of the triangles intersect at a point, then the angles between successive heights are equal;
- (b) by moving the intersecting point of two heights of adjacent triangles, these two heights can be adjusted to coincide with the two sides of the given angle.

CHINA

Name: **Lizhen Shen**
Date of birth: January 6, 1950

Category: Outstanding Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: Tenth National Exhibition of Inventions
Place: Guangzhou, China
Date: September 1997

Invention: **Non-asbestos, noise-free disc brake pad.**

Organizer: China Association of Inventions (CAI),
Beijing, China

Other information:

CHINA

Name: **Heng Wang**
Date of birth: (information not available)

Category: Outstanding Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: Ninth National Exhibition of Inventions and Ten-year
Excellent Achievements
Place: Beijing, China
Date: October 1995

Invention: **B Hepatitis Gene Vaccine - Rv - HBrac.**

Organizer: China Association of Inventions (CAI),
Beijing, China

Other information:

CHINA

Name: **Juzhen Wang**
Date of birth: 1930

Category: Outstanding Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: Beijing International Exhibition of Inventions
Place: Beijing, China
Date: October 1988

Invention: **Tungsten Cerium Electrode.**

Organizer: China Association of Inventions (CAI),
Beijing, China

Other information:

CHINA

Name: **Yuan Wang**
Date of birth: (information not available)

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: Beijing International Exhibition of Inventions
Place: Beijing, China
Date: 1992

Invention: **Hepatitis vaccine (genetically engineered).**

Organizer: China Association of Inventions (CAI),
Beijing, China

Other information:

CHINA

Name: **Jinhang Xu**
Date of birth: 1935

Category: Outstanding Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: On the occasion of the establishment of the China Association of Inventions,
First National Exhibitions of Inventions
Place: Beijing, China
Date: October 1985

Invention: **All-purpose monolithic catalyst for exhaust gas purification.**

Organizer: China Association of Inventions (CAI),
Beijing, China

Other information: The new all-purpose catalyst may be used in the production of varnished wires or in equipment for purification of industrial and exhaust gases. The monolithic catalyst consists of a honeycomb made of an alloy of rare earth petrovskite type metal and recycled metal, and its manufacturing costs are considerably lower when compared with those of common catalysts. As the new type catalysts may be heated directly by electric current, no exhaust preheater is needed, which allows for a reduction in the size and weight of catalysts, as well as a reduction in operating costs. It can also be used to increase the sensitivity of mass spectrometers.

COLOMBIA

Name: **Anne Dix**
Date of birth: 1969

Category: Best Young Inventor

Title of award: WIPO Silver Medal

Occasion of award: First Meeting of National Inventors
Contest for Young Inventors
Place: Guatemala City, Guatemala
Date: November 1986

Invention: **Use of Azolla, a tropical water alga as a means of biological control of the *Anopheles Albimanus* mosquito.**

Organizer: Ministry of Economy of Guatemala,
Guatemala City, Guatemala

Other information: Mr. **Hector Pedraza** (born 1968) is the second inventor. The work of the two young inventors gave practical evidence of the fact that in water pits containing the *Azolla* water fern, no larvae of the *Anopheles Albimanus* mosquito can be observed. The *Anopheles Albimanus* mosquito is the carrier of malaria in Guatemala. Thus the *Azolla* fern could be an effective means of biological control of the *Anopheles Albimanus* mosquito.

CUBA

Name: **Concepción Campa Huergo**
Date of birth: 1951

Category: Best Invention

Title of award: WIPO Gold Medal

Occasion of award: Recommendation by ONIITEM)
Place: Havana, Cuba
Date: December 1989

Invention: **Method of obtaining a broad-spectrum vaccine against Group B *Neisserio meningitidis*, and the resulting vaccine.**

Organizer: ONIITEM, Havana, Cuba

Other information: Mr. **Gustavo Sierra González**, joint inventor of the vaccine, was also awarded a WIPO Gold Medal. Diplomas were presented to each of the four men and three women who had also participated in the research work on the vaccine.

CUBA

Name: **Rosa María Más Ferreiro (main inventor)**
Date of birth: (information not available)

Category: Best Invention - (Team)

Title of award: WIPO Gold Medal

Occasion of award: (Recommendation by ONIITEM)
Place: Havana, Cuba
Date: January 31, 1996

Invention: **Pharmaceutical compound containing a mixture of higher primary aliphatic alcohols for the treatment of hypercholesterolemia and type ii hyperlipoproteinemia, and as a stimulant of sexual behavior in animals or humans.**

Organizer: ONIITEM, La Habana, Cuba

Other information: Mrs. **R.M. Más Ferreiro** is the main inventor, titular researcher and Deputy Director of the National Center of Scientific Research of the Ministry of Higher Education of the Republic of Cuba. **Abilio Melquiades Laguna Granja, Juan Magraner Hernández, María de Lourdes Arruzazabala Valmaña and Daisy María Carbajal Quintana** received diplomas.

DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA

Name: **Sen Yun Yong**
Date of birth: September 10, 1964

Category: Outstanding Girl Inventor

Title of award: WIPO Gold Medal

Occasion of award: First Pyongyang International Exhibition of Youth
Inventions and New Techniques
Place: Pyongyang, Democratic People's
Republic of Korea
Date: July, 1989

Invention: **Laser replaces needles.**

Organizer: (information not available)

Other information: After graduating from the Pyongyang Faculty of Medicine in 1987, Sen learned of the development of lasers for surgery, and also for medical treatment. She devised a laser apparatus that could treat diseases by focusing its beam on the points of acupuncture, using them instead of the traditional needles.

DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA

Name: **Bok Sil Yun**
Date of birth: 1966

Category: Best Invention

Title of award: WIPO Gold Medal

Occasion of award: Second Pyongyang International Exhibition of Youth
Inventions and Techniques
Place: Pyongyang, Democratic People's
Republic of Korea
Date: April 19, 1991

Invention: **Microcomputer Control Expansion Unit.**

Organizer: (information not available)

Other information: Yun Bok Sil is an engineer in a computer factory.

EGYPT

Name: **Ferial Tera**
Date of birth: January 14, 1939

Category: Outstanding Egyptian Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: Conference organized by UNDP on Arab Woman Development
Place: Cairo, Egypt
Date: May 20 to 23, 1990

Invention: **“Test-Fast Tera”: machine to test colors.**

Organizer: IFIA and Regional Bureau for Arab States and Europe, WIPO, Geneva, Switzerland

Other information: “Test-Fast Tera” is a machine that tests the effect of the sun’s rays on the colors of cloth, paper, leather and other materials.

Dr. Ferial Tera became, in 1986, the first woman in her country to receive the State Prize in the Field of Inventions and Innovations.

FINLAND

Name: **Aino Heikkinen**
Date of birth: 1947

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: Outstanding Finnish Inventor
Place: Geneva, Switzerland
Date: 1990

Invention: **New method of making concrete.**

Organizer: WIPO, Geneva, Switzerland

Other information: The method consists in replacing 10 to 30% of the cement with peat ash, thereby reducing the cost of the concrete by almost 20%. The conversion by refining of the peat ash, which is considered waste matter, permits the recovery of the material for the making of concrete.

FRANCE

Name: **Luce Pince My**
Date of birth: (information not available)

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 16th International Exhibition of Inventions and New Techniques
Place: Geneva, Switzerland
Date: 1988

Invention: **Meridian watch.**

Organizer: Organizing Committee of the International Exhibition of Inventions, Geneva, Switzerland

Other information: Easy-to-read double-disc timepiece allowing forenoon times (a.m.) to be distinguished from afternoon times (p.m.).

FRANCE

Name: **Monique Teinturier**
Date of birth: 21.07.1947

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 18th International Exhibition of Inventions and New
Techniques
Place: Geneva, Switzerland
Date: 1990

Invention: **Safety profile system for doors.**

Organizer: Organizing Committee of the International Exhibition of
Inventions, Geneva, Switzerland

Other information: Safety system to prevent the crushing of children's fingers
in doorways, protected under the ALN'OR trademark.

GERMANY

Name: **Karin Luck-Fehlau**
Date of birth: (information not available)

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 20th International Exhibition of Inventions, New
Techniques and Products
Place: Geneva, Switzerland
Date: April 9, 1992

Invention: “**Weltweit DosenEx-Pressé.**”

Organizer: Organizing Committee of the International Exhibition of
Inventions, Geneva, Switzerland

Other information:

ITALY

Name: **Mariarosa Abbate**
Date of birth: 1930

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 17th International Exhibition of Inventions and New
Techniques
Place: Geneva, Switzerland
Date: 1989

Invention: **Suction-pad appliance for variable-vacuum
trichological treatment of the scalp.**

Organizer: Organizing Committee of the International Exhibition of
Inventions, Geneva, Switzerland

Other information:

JAPAN

Name: **Shoko Abukawa**
Date of birth: (information not available)

Category: Young Inventor

Title of award: WIPO Prize

Occasion of award: Exhibition of the 52nd Competition of School Children's Inventions
Place: Tokyo, Japan
Date: March 1994

Invention: **A rotary board representing constellations and related legends.**

Organizer: Japan Institute of Invention and Innovation (JIII),
Tokyo, Japan

Other information:

JAPAN

Name: **Michiko Araki**
Date of birth: (information not available)

Category: Young Inventor

Title of award: WIPO Prize

Occasion of award: Exhibition of the 54th Competition of School Children's
Inventions
Place: Tokyo, Japan
Date: 1996

Invention: **"Hand Harmonica," a musical instrument utilizing
used PET bottles in an application of the principle of
making a sound.**

Organizer: Japan Institute of Invention and Innovation (JIII),
Tokyo, Japan

Other information:

JAPAN

Name: **Michiko Ikeda**
Date of birth: 1974

Category: Young Inventor

Title of award: WIPO Gold Medal

Occasion of award: Exhibition of the 41st Competition of School Children's Inventions
Place: Tokyo, Japan
Date: March 1983

Invention: **Music box.**

Organizer: Japan Institute of Invention and Innovation (JIII),
Tokyo, Japan

Other information: The music box is a kind of percussion instrument made of wood with eight bells based on the design of the KOTO (Japanese harp). Frets arranged in eight lanes on a sliding panel are aligned with small split bamboo sticks projecting vertically downward from the center bridge, and the frets connect with the sticks when the panel is pulled. When the sticks are thus plucked by the frets, beads attached to them strike eight corresponding bells hanging from the bridge. If each fret is set in an appropriate position to make the desired sound, a melody can be played by pulling the sliding panel.

JAPAN

Name: **Etsuko Izumisawa**
Date of birth: 1968

Category: Young Inventor

Title of award: WIPO Gold Medal

Occasion of award: Exhibition of the 40th Competition of School Children's Inventions

Place: Tokyo, Japan

Date: March 1982

Invention: **Memo-box.**

Organizer: Japan Institute of Invention and Innovation (JIII),
Tokyo, Japan

Other information: This is a scrap paper case so designed that pieces of paper can be taken out immediately when needed using the weight of a rubber coated marble. When a string connected to a ball-point pen is pulled, a piece of scrap paper is pulled out by the weight of the glass marble attached to the end of the string. A rubber thread is wound around the rubber coated marble to increase its surface friction. It is possible to take out the scrap paper immediately without having to look for a pen and, to jot a memo on the case. The memo-box can be used, for example, in telephone booths.

JAPAN

Name:

Kanako Kikuchi

Date of birth: 1975

Category:

Young Inventor

Title of award:

WIPO Prize

Occasion of award:

Exhibition of the 42nd Competition of School Children's Inventions

Place: Tokyo, Japan

Date: March 17, 1984

Invention

Movable multiplication (kuku) learning device.

Organizer:

Japan Institute of Invention and Innovation (JIII),
Tokyo, Japan

Other information:

This is a learning device for practising the multiplication tables (Kuku) which can be used wherever and whenever a child wishes, by setting up a number-indicating board and a mini barrel. A card is prepared for each combination of multiplication and multiplier from one to nine. A calculation problem (for example: 2×4) is presented on the upper part of each card, while the lower part is darkened in such a way that it will show the correct answer to the problem when the card is inserted into a slot of the number-indicating board. The child picks one of the cards from the side of the barrel, and then inserts that card into the slot of the number-indicating board after solving the problem. In this way, it is possible to learn the multiplication tables while checking whether or not the answers are correct.

MALAYSIA

Name: **Yuen-May Choo**
Date of birth: December 1955

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 22nd International Exhibition of Inventions, New
Techniques and Products
Place: Geneva, Switzerland
Date: 15-24 April 1994

Invention: **A novel process for the production of carotene
enriched red palm oil.**

Organizer: Organizing Committee of the International Exhibition of
Inventions, Geneva, Switzerland

Other information: Palm oil and its products, which are marketed, are light
gold in color and devoid of carotenes, as the current
physical refining process destroys all carotenes (pro-
vitamin A) present in crude palm oil. Thus a novel
process for the production of carotene enriched red palm
oil has been developed. Red palm oil is a new nutritious
product enriched in carotenes and vitamin E - the only
commercially available oil with these two micronutrients.

MONGOLIA

Name:

Yadamsurengiin Sodnombaljir

Date of birth: December 1955

Category:

Best Woman Inventor

Title of award:

WIPO Gold Medal

Occasion of award:

VIII National Inventors Exhibition

Place: Ulaanbaatar, Mongolia

Date: May 1988

Invention:

Technology for producing soft leather from Mongolian sheepskin.

Organizer:

Government of the Mongolian People's Republic

Other information:

MOROCCO

Name:

Assia Bakali

Date of birth:

26.1.1968

Category:

Best Woman Inventor

Title of award:

WIPO Gold Medal

Occasion of award:

4th World Invention and Innovation Fair

Place:

Casablanca, Morocco

Date:

July 1 to 7, 1998

Invention:

Electronic system for charging telephone calls by generating a charging impulse according to current rates, and management of the telephone line by means of a set of telephone services, available without subscription.

Organizer:

Morocco Invention, Casablanca, Morocco

Other information:

MOROCCO

Name:

Leïla Inani

Date of birth:

15.1.1962

Category:

Best Woman Inventor

Title of award:

WIPO Gold Medal

Occasion of award:

2nd World Invention and Innovation Fair

Place:

Casablanca, Morocco

Date:

June 13 to 18, 1996

Inventions:

- (1) Washable, hard-wearing sanitary pad for infants and the elderly.
- (2) Pressure system for rechargeable toothbrush.
- (3) Time and labor-saving system of kitchen utensils with removable and refillable compartments for cooking two or more foods at a time.

Organizer:

Morocco Invention, Casablanca, Morocco

Other information:

NETHERLANDS

Name: **Henriette Könnecker**
Date of birth: 1940

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: Special WIPO prize on the occasion of the conclusion of the United Nations Decade for Women (1976 - 1985)
Place: Geneva, Switzerland
Date: April 25, 1985

Invention: **“HeiDIA”- Ultrathin slides.**

Organizer: Organizing Committee of the International Exhibition of Inventions, Geneva, Switzerland

Other information: While a normal color slide has a thickness of 150 to 180 microns, the slides produced with the new process are only 35 microns thick. In addition, this process permits the production of large-sized slides (120 x 176 cm) at relatively low cost. The first application of the ultrathin slides was in advertising panels with changing images. Instead of the usual 5 to 6 different images, the panels fitted with the new type slides can show up to 25 different images.

NORWAY

Name: **Halldis Aalvik Thune**
Date of birth: 1937

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 15th International Exhibition of Inventions and New Techniques

Place: Geneva, Switzerland

Date: April 1987

Invention: **Neck-Aid.**

Organizer: Organizing Committee of the International Exhibition of Inventions, Geneva, Switzerland

Other information: Special device used for supporting the neck and immobilizing the vertebral column of victims of accidents in order to transport them with minimum discomfort and insecurity.

PHILIPPINES

Name:

Violeta P. Arida

Date of birth: 1930

Category:

TUKLAS Award
(most promising invention)

Title of award:

WIPO Gold Medal

Occasion of award:

1994 National Invention Contest,
5th DOST Annual Technology Fair
Place: Metro Manila, Philippines
Date: July 11 to 16, 1994

Invention:

**Process for the production of slow-release type
Potassium Silicate Fertilizer from rice husk and
dolomitic limestone and the product thereof.**

Organizer:

Technology Application and Promotion Institute,
Department of Science and Technology (TAPI/DOST),
Manila, Philippines

Other information:

The invention relates to a process for the production of a slow-release type fertilizer which utilizes rice husks or its ash, dolomitic limestone and potassium salts as raw materials and the product thereof. The fertilizer product is in granular form. Its unique characteristic enables single fertilizer application without fertilizer burns. The controlled nutrient release rate corresponds to the needs of the plant. Actual field application tests are in progress.

PHILIPPINES

Name:

Erlinda Castro-Sanqui

Date of birth: 1927

Category:

Outstanding Woman Inventor

Title of award:

WIPO Gold Medal

Occasion of award:

First DOST Annual Technology Fair and National
Inventors Week

Place: Metro Manila, Philippines

Date: July 8 to 13, 1989

Invention:

- (1) **Fruitcake Filipina.**
- (2) **Pito-Pito Herbal tea (no caffeine, no
preservatives, all natural).**

Organizer:

Technology Application and Promotion Institute,
Department of Science and Technology (TAPI/DOST),
Manila, Philippines

Other information:

PHILIPPINES

Name : **Jaymi Therese E. Cheng**
Date of birth: 1980
Penelope L. Martin
Date of birth: 1980
Mildred T. Reongco
Date of birth: 1979

Category: SIBOL Award (High School Level)
(most promising student creative research)

Title of award: WIPO Gold Medal

Occasion of award: 1996 National Invention Contest
7th DOST Annual Science and Technology Fair
Place: Manila, Philippines
Date: July 8 to 13, 1996

Invention: **Biosorption of lead ions from aqueous solutions by immobilized rhizobium BJVR-12 cells.**

Organizer: Technology Application and Promotion Institute,
Department of Science and Technology (TAPI/DOST),
Manila, Philippines

Other information: The isolate from root modules was immobilized in 10% agar and packed in between scouring pads placed in a plastic column to prepare an effective but inexpensive biotrap for lead ions.

PHILIPPINES

Name: **Charlene T. Dalmacio**
Date of birth: (information not available)
Karen V. Evangelista
Date of birth: (information not available)

Category: SIBOL Award
(most promising student creative research)

Title of award: WIPO Gold Medal

Occasion of award: 1993 National Invention Contest
4th DOST Annual Technology Fair
Place: Metro Manila, Philippines
Date: July 19 to 23, 1993

Invention: **Use of pseudomonas as degrader of xylene.**

Organizer: Technology Application and Promotion Institute,
Department of Science and Technology (TAPI/DOST),
Manila, Philippines

Other information: The creative research involved the isolation of a microorganism, specifically pseudomonas. The isolate is then used to degrade pollutants, particularly xylene. The research results may find useful application in pollution management of a body of water such as a lake. The third inventor of this invention is **Jaymee Romero**.

PHILIPPINES

Name: **Barbara Anne G. Estrella**
Date of birth: (information not available)
Leah C. Mesina
Date of birth: (information not available)

Category: SIBOL Award
(most promising student creative research)

Title of award: WIPO Gold Medal

Occasion of award: 1995 National Invention Contest
6th DOST Annual Science and Technology Fair
Place: Cebu City, Philippines
Date: July 22, 1995

Invention: **A feasibility study on starch from sweet potato as filler for the production of biodegradable plastic.**

Organizer: Technology Application and Promotion Institute,
Department of Science and Technology (TAPI/DOST),
Manila, Philippines

Other information: The creative research involved the use of starch from the widely available local rootcrop as filler for biodegradable plastics. Different proportions of starch to polyethylene resins were used in forming plastic sheets. Testing for biodegradability was done by a soil burial test. Samples before and after this test were subjected to scanning electron microscopy.

PHILIPPINES

Name: **Katherine Fe E. Flores**
Date of birth: 1980

Category: SIBOL Award (High School Level)

Title of award: WIPO Gold Medal

Occasion of award: National Inventors Week '96
Place: Quezon City Hall, Manila,
Philippines
Date: 25 - 30 November 1996

Invention: **Evaluation of *Derris philippinensis*, *Manihot esculenta*, *Dieffenbachia amoena*, *Chrysanthemum morifolium* and *capsicum frutescens* extract and powder as molluscicide for *Oncomelania quadrasi*.**

Organizer: Technology Application and Promotion
Institute/Department of Science and Technology
(TAPI/DOST), in collaboration with the Filipino
Inventors' Association (FIS),
Metro Manila, Philippines

Other information: Pesticide decoctions from above plants are effective
against snails.

Robert Mark O. Lauzon and Janelle M. Lim were also
part of the team that made the invention mentioned above.

PHILIPPINES

Name: **Olympia N. Gonzales**
Date of birth: December 16, 1926

Category: Outstanding Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: Special WIPO award on the occasion of the conclusion of the United Nations Decade for Women (1976 - 1985)
19th Philippine Annual Inventors' Week
Place: Metro Manila, Philippines
Date: February 1985

Inventions: (1) **Baby foods from local fruit.**
(2) **Process for preparing coconut milk and product thereof.**

Organizer: Philippine Invention Development Institute (PIDI),
Metro Manila, Philippines

Other information: (1) Foods for babies and for weaning infants are prepared from local fruit and fortified with vitamins. These prepared baby foods, available in ready-to-use forms, can be used as supplements for breast-fed and artificially-fed babies.
(2) This is a process for making coconut milk extracted from the white flesh of ripe coconuts into a stabilized diluted coconut cream in a ready-to-use form suitable for culinary purposes and for use in food preparation and processed food products that are made more acceptable with the coconut flavor.

PHILIPPINES

Name: **Janelle M. Lim**
Date of birth: 1980

Category: SIBOL Award (High School Level)

Title of award: WIPO Gold Medal

Occasion of award: National Inventors Week '96
Place: Quezon City Hall, Manila,
Philippines
Date: 25 - 30 November 1996

Invention: **Evaluation of *Derris philippinensis*, *Manihot esculenta*, *Dieffenbachia amoena*, *Chrysanthemum morifolium* and *capsicum frutescens* extract and powder as molluscicide for *Oncomelania quadrasi*.**

Organizer: Technology Application and Promotion
Institute/Department of Science and Technology
(TAPI/DOST), in collaboration with the Filipino
Inventors' Association (FIS), Metro Manila, Philippines

Other information: Pesticide decoctions from above plants are effective
against snails.

Katherine E. Flores and Robert Mark O. Lauzon were
also part of the team that made the invention mentioned
above.

PHILIPPINES

Name: **Juanita C. Mamaril**
Date of birth: 1932

Category: TUKLAS Award
(most promising invention)

Title of award: WIPO Gold Medal

Occasion of award: 1996 National Invention Contest
7th DOST Annual Science and Technology Fair
Place: Manila, Philippines
Date: July 8 to 13, 1996

Invention: **Process for producing concentrated plant growth hormones and regulators from coconut water.**

Organizer: Technology Application and Promotion Institute,
Department of Science and Technology (TAPI/DOST),
Manila, Philippines

Other information: This process involves adsorption on a non-ionic polymeric resin and then extraction of the adsorbed hormones/regulators by alcohol followed by water. Resulting solutions contain 250-300 mg of plant growth hormones/regulator per liter of the solution. The concentrated plant growth hormones/regulators are being sold under the brand name "Cocogroe."

PHILIPPINES

Name: **Alia Pura**
Date of birth: (information not available)

Name: **Ma. Kristina Ramos**
Date of birth: (information not available)

Category: SIBOL Award (College Level)
(most promising student creative research)

Title of award: WIPO Gold Medal

Occasion of award: 1996 National Invention Contest
7th DOST Annual Science and Technology Fair
Place: Manila, Philippines
Date: July 8 to 13, 1996

Invention: **Mini-ASRS (Automated Storage and Retrieval System).**

Organizer: Technology Application and Promotion Institute,
Department of Science and Technology (TAPI/DOST),
Manila, Philippines

Other information: This is a robotic system designed to demonstrate storage, retrieval and inventory functions. It comprises three parts: shelves, transporter and a rail mechanism.

This invention was made by a team of five inventors:
G. Ancheta, Alia Pura, Ma. Kristina Ramos, Vincent Liwanag and Robert Ong.

PHILIPPINES

Name: **Carlita Rex Doran**
Date of birth: 1942

Category: Outstanding Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: Filipino Woman Inventor for 1989
Place: Metro Manila, Philippines
Date: February 1989

Invention: **Alternative fuel for cooking.**

Organizer: Filipino Inventors Society, Manila, Philippines

Other information:

PHILIPPINES

Name: **Magdalena Villaruz**
Date of birth: 1934

Category: Best Inventor

Title of award: WIPO Gold Medal

Occasion of award: 20th Philippine Annual Inventors' Week
Place: Metro Manila, Philippines
Date: February 1986

Inventions:

- (1) **Turtle hand tractor (Power cultivator).**
- (2) **Leveler device.**
- (3) **Floating operator's seat.**
- (4) **Two-speed transmission assembly for power cultivator.**
- (5) **Improved windmill.**
- (6) **Diaphragm pump.**
- (7) **Dual diaphragm pump.**
- (8) **Improved power cultivator.**
- (9) **Rotavator wheel.**
- (10) **Adjustable engine mount.**
- (11) **Improved power cultivator assembly.**
- (12) **Blower for threshing drum discharge ejector.**
- (13) **Multi-purpose household rice huller.**
- (14) **Three-wheeled passenger vehicle.**
- (15) **Combination harrow-leveler.**

Organizer: Philippine Invention Development Institute (PIDI),
Metro Manila, Philippines

Other information: Ms. Villaruz was awarded a second WIPO Gold Medal, in 1995, for five other new inventions (see next page).

PHILIPPINES

Name: **Magdalena Villaruz**
Date of birth: 1934

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 1995 National Invention Contest
6th DOST Annual Science and Technology Fair
Place: Cebu City, Philippines
Date: July 22, 1995

Inventions:

- (1) **Turtle hand tractor.**
- (2) **Screen-type palay thresher.**
- (3) **Blower for threshing drum discharge thrower.**
- (4) **Improved corn sheller.**
- (5) **Simplified hand tractor.**

Organizer: Technology Application and Promotion Institute,
Department of Science and Technology (TAPI/DOST),
Manila, Philippines

Other information: All the above five inventions are being commercialized.
Magdalena is a business entrepreneur/inventor. She was
awarded a first WIPO Gold Medal in 1986
(see preceding page).

PHILIPPINES

Name: **Carolyn Yu**
Date of birth: 1962

Category: SIBOL Award (College Level)

Title of award: WIPO Gold Medal

Occasion of award: National Inventors Week '96
Place: Quezon City Hall, Manila,
Philippines
Date: 25 - 30 November 1996

Invention: **Product research design of collapsible stairs and hand truck lift.**

Organizer: Technology Application and Promotion
Institute/Department of Science and Technology
(TAPI/DOST), in collaboration with the Filipino
Inventors' Association (FIS),
Metro Manila, Philippines

Other information: This invention consists of a new design of a hand truck
provided with collapsible stairs and lift which may be used
for handling material.

Alvin Jonathan Abella and Kenneth Ng were also part of
the team that made the invention mentioned above.

POLAND

Name: **Alfreda Graczyk**
Date of birth: January 6, 1936

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 43rd World Invention, Research and Industrial Innovation Fair
"Brussels Eureka '94"
Place: Brussels, Belgium
Date: November 14, 1994

Invention: **Photodynamic therapy for the treatment of tumors.**

Organizer: Belgium Chamber of Inventors and Chamber of Inventors of Spain

Other information:

REPUBLIC OF KOREA

Name: **Ok-Soon Cho**
Date of birth: 1938

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: Fourth National Excellent Inventions Exhibition
Place: Seoul, Republic of Korea
Date: 1985

Invention: **Gadget Pen (miracle pen).**

Organizer: Office of Patents Administration, Seoul, Republic of Korea

Other information: This gadget pen consists of two felt pens, each impregnated with a particular chemical substance. The first pen writes in invisible ink. The second acts as a revealer: it is rubbed over the invisible writing, which then appears for a few moments on the paper.

REPUBLIC OF KOREA

Name: **Soon Chae Lee**
Date of birth: (information not available)

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 24th International Exhibition of Inventions, New
Techniques and Products
Place: Geneva, Switzerland
Date: April 24, 1996

Invention: **Construction and method of using resinous materials
for civil engineering applications.**

Organizer: Organizing Committee of the International Exhibition of
Inventions, Geneva, Switzerland

Other information:

REPUBLIC OF KOREA

Name: **In-Soon Park**
Date of birth: November 11, 1967

Category: Best Young Inventor

Title of award: WIPO Gold Medal

Occasion of award: Fourth National Excellent Inventions Exhibition of Korea
"NIEX"
Place: Seoul, Republic of Korea
Date: September 10, 1985

Invention: **Improved short-handled hoe.**

Organizer: Office of Patents Administration, Seoul, Republic of
Korea

Other information:

ROMANIA

Name:

Maria Caloianu

Date of birth: (information not available)

Category:

Best Woman Inventor

Title of award:

WIPO Gold Medal

Occasion of award:

23rd International Exhibition of Inventions, New
Techniques and Products

Place: Geneva, Switzerland

Date: April 5, 1995

Invention:

**Technology for producing a chemical biosensor
consisting of soluble collagen and synthetic polymers,
with very high sensitivity in the detection of chemical
and oxydation factors.**

Organizer:

Organizing Committee of the International Exhibition of
Inventions, Geneva, Switzerland

Other information:

ROMANIA

Name: **Marioara Godeanu**
Date of birth: 25.04.1938

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 41st World Invention, Research and Industrial Innovation Fair, "Brussels Eureka '92"
Place: Brussels, Belgium
Date: November 9, 1992

Invention: **Integrated ecological system.**

Organizer: Eureka organizing committee,
Brussels, Belgium

Other information: The invention has been put into practice by the Government authorities in the cities of Pitesti and Bucharest.

RUSSIAN FEDERATION

Name: **Tatiana Leontievna Vorobieva**
Date of birth: (information not available)

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 26th International Exhibition of Inventions, New
Techniques and Products
Place: Geneva, Switzerland
Date: April 2, 1998

Invention: **Direction-finding spectacles for the blind. The
microelectronic infrared direction finder for the blind
is intended to detect empty spaces and obstacles in
their path.**

Organizer: Organizing Committee of the International Exhibition of
Inventions, Geneva, Switzerland

Other information:

RUSSIAN FEDERATION

Name: **N. Zubova**
Date of birth: 12.01.1934

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 41st World Invention, Research and Industrial Innovation Fair, "Brussels Eureka '92"
Place: Brussels, Belgium
Date: November 9, 1992

Invention: **Medicine by biodata: method and technology**

Organizer: Belgium Chamber of Inventors and Chamber of Inventors of Spain, Brussels, Belgium

Other information: Mrs. Zubova is a physicist and doctor of natural medicine. Her invention is being used in Russia, the United Kingdom and Costa Rica.

SOUTH AFRICA

Name: **Annique Theron**
Date of birth: (information not available)

Category: Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 25th International Exhibition of Inventions, New
Techniques and Products
Place: Geneva, Switzerland
Date: April 16, 1997

Invention: **Invention of a tea, extracted exclusively from the plant
Aspalathus Linearis, having anti-allergic properties.**

Organizer: Organizing Committee of the International Exhibition of
Inventions, Geneva, Switzerland

Other information:

SOVIET UNION

Name: **E.V. Egorova**
Date of birth: 1938

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: Special WIPO award on the occasion of the conclusion of the United Nations Decade for Women (1976 - 1985)
Inventor's and Rationalizer's Day
Place: Moscow, Soviet Union
Date: June 1985

Invention: **Development and application of new techniques in eye surgery.**

Organizer: USSR State Committee for Inventions and Discoveries,
Moscow, Soviet Union

Other information: The inventions on which the new techniques in eye surgery are based relate to the prevention and reduction of complications that might occur during the surgical treatment as well as in the post-operative period. This results in a very high percentage of successful operations and in many cases a 100% recovery of visual activity.

Prof. S.N. Fedorov, Dr. I.M. Benenson, Mr. E.I. Degtev, Mr. V.G. Kiselev, Dr. T.E. Marchenkova (Ms.), Dr. V.N. Troubilin, Mr. B.I. Rouzankov and Mr. A.A. Karavaev were also part of the team that made the invention mentioned above.

SOVIET UNION

Name: **Victoria Ionovna Kovalevskaya**
Date of birth: 1925

Category: Best invention of practical use to developing countries

Title of award: WIPO Gold Medal

Occasion of award: Inventor's and Rationalizer's Day
Place: Moscow, Soviet Union
Date: 1987

Invention: **Inventions relating to the design of centrifugal ventilators for the aeration of deep pits and mines.**

Organizer: USSR State Committee for Inventions and Discoveries,
Moscow, Soviet Union

Other information: The team of inventors of the Institute "Dongiprouglemash" Donezk, USSR, includes the following four inventors:
Mr. V. V. Pak, Mr. V. P. Peredry, Mr. V. A. Spivak,
Mr. M.G. Zhebelenko.

SOVIET UNION

Name: **L.M. Yablochnik**
Date of birth: 1929

Category: Best invention of practical use to developing countries

Title of award: WIPO Gold Medal

Occasion of award: Inventor's and Rationalizator's Day
Place: Moscow, Soviet Union
Date: June 1983

Invention: **Method for production and use of the vaccine LTF-130, intended for prevention and treatment of cattle skin diseases (Trichophytia).**

Organizer: USSR State Committee for Inventions and Discoveries,
Moscow, Soviet Union

Other information: As a result of immunization of cattle in the Soviet Union with the new vaccine LTF-130 for the period 1968 - 1978, the disease Trichophytia was reduced more than 100-fold and practically disappeared.

Prof. **A.Kh. Sarkisov**, Mr. **S.V. Petrovich** and Mr. **L.I. Nikiforov** were also part of the team that made this invention.

SPAIN

Name: **Maria de Sol D. Garcia Havano**
Date of birth: 26.5.1945

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 44th World Invention, Research and Industrial Innovation
Fair
"Brussels Eureka '95"
Place: Brussels, Belgium
Date: November 8-15, 1995

Invention: **Invention for assisting the physiological functions of
the intestines.**

Organizer: Belgian Chamber of Inventors and Chamber of Inventors
of Spain, Brussels, Belgium

Other information: The lady is a writer by trade.

SPAIN

Name: **Teresa Piñero Gómez**
Date of birth: 18.03.1942

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 21st International Exhibition of Inventions, New
Techniques and Products
Place: Geneva, Switzerland
Date: April 1, 1993

Invention: **System for hanging out washing with extendable cover.**

Organizer: Organizing Committee of the International Exhibition of
Inventions, Geneva, Switzerland

Other information:

SPAIN

Name: **Lourdes Sanchez Puyeo**
Date of birth: 1943

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 42nd World Invention, Research and Industrial Innovation Fair,
"Brussels Eureka '93"
Place: Brussels, Belgium
Date: November 5-12, 1993

Invention: **Codefon - Pearl of Lourdes.**

Organizer: Belgian Chamber of Inventors and Chamber of Inventors of Spain, Brussels, Belgium

Other information:

SWEDEN

Name: **Annette Astrom**
Date of birth: 03.07.1963

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 46th World Invention, Research and Industrial Innovation Fair, "Brussels Eureka '97"
Place: Brussels, Belgium
Date: November 11, 1997

Invention: **A 3-combined chair: children's chair.**

Organizer: Belgian Chamber of Inventors, Brussels, Belgium

Other information: The invention was placed on the market in November 1997 (PCT application No: 9502838-7).

UNITED STATES OF AMERICA

Name: **Suzanna Goodin**
Date of birth: 04.04.1980

Category: Best Young Inventor

Title of award: WIPO Gold Medal

Occasion of award: Weekly Reader National Invention Contest
Place: Washington, D.C., U.S.A.
Date: February 1987

Invention: **Edible Pet Food Server.**

Organizer: The Weekly Reader
Field Publication Inc.
245, Long Hill Road, Middletown, CO., U.S.A, and
United States Patent and Trademark Office (USPTO),
Washington, D.C. 20231, U.S.A

Other information:

YUGOSLAVIA

Name: **Danica Gajic**
Date of birth: 1918

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: Competition of Best Woman Inventor of Yugoslavia
Place: Geneva, Switzerland
Date: 1987

Invention: **“Agrostemin,” extracted from *Agrostemma Githago*, is a 100% natural bioregulator that respects the microflora of the soil.**

Organizer: WIPO, Geneva, Switzerland

Other information: “Agrostemin” is a substance whose main ingredient is derived from the herb called *Agrostemma Githago*. The new substance has a bioregulatory property and is used instead of fertilizer in agriculture.

YUGOSLAVIA

Name: **Dusanka Mandic**
Date of birth: (information not available)

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: 45th Invention, Research and Industrial Innovation Fair,
"Brussels Eureka '96"
Place: Brussels, Belgium
Date: November 6-13, 1996

Invention: **Magnetic traps for the removal of ferrous metal particles.**

Organizer: Belgian Chamber of Inventors, Brussels, Belgium

Other information:

YUGOSLAVIA

Name: **Vida Popovic**
Date of birth: (information not available)

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: Best Woman Inventor of Yugoslavia
Place: Geneva, Switzerland
Date: 1987

Invention: **“Vidasil,” process for the production of a non-flammable heat insulation material capable of resisting temperatures up to 1,500 degrees.**

Organizer: WIPO, Geneva, Switzerland

Other information: Produced from lime, quartz, chrysotile, asbestos, flax or cellulose and water, *Vidasil* has a composition suggestive of a stone. Its applications are many: building, heat insulation, ovens, moldings, molds, furnace linings, packaging material, refrigeration systems, space technology.

ZAIRE

Name: **Kapinga Mikalu**
Date of birth: 27.07.1940

Category: Best Woman Inventor

Title of award: WIPO Gold Medal

Occasion of award: Best Woman Inventor of Zaire
Place: Geneva, Switzerland
Date: 1990

Invention: **Mirror-microscope system for saliva test.**

Organizer: WIPO, Geneva, Switzerland

Other information: A technique jointly invented by a medical practitioner whose name is **Maweja Dina Tshitshia**. The microscope with its two small mirrors serves to detect signs of microbes present in saliva.

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