

TERMIN- KALENDER

I. TAGUNGEN IM RAHMEN DER EUROPÄISCHEN PATENT- ORGANISATION

Arbeitsgruppe "Technische
Information"

DATIMTEX

SACEPO

DATIMTEX

EPA
Verwaltungsrat

EPI
Rat des Europäischen
Patentinstituts

EPA
Verwaltungsrat

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II. SONSTIGE TAGUNGEN UND VERANSTALTUNGEN

WIPO
Sachverständigenausschuß
für biotechnische
Erfindungen

VPP
Fachtagung

CEIPI
Das europäische
Patent

VPP
Fachtagung

CALENDAR OF EVENTS

I. EUROPEAN PATENT ORGANISATION MEETINGS

Working Party on
Technical Information

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EPO
Administrative Council

EPI
Council of the
European Patent
Institute

EPO
Administrative Council

EPO
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II. OTHER MEETINGS AND EVENTS

WIPO
Committee of experts
on biotechnological
inventions

CEIPI
The European Patent

CALENDRIER

I. REUNIONS DANS LE CADRE DE L'ORGANISATION EUROPEENNE DES BREVETS

Groupe de travail
"Information Technique"

DATIMTEX

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DATIMTEX

OEB
Conseil d'administration

EPI
Conseil de
l'Institut des
mandataires agréés

OEB
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II. AUTRES REUNIONS ET MANIFESTATIONS DIVERSES

OMPI
Comité d'experts sur les
inventions bio-
technologiques

CEIPI
Le brevet européen

29-31.10.1984
EPA/EPO/OEB
den Haag/The Hague/
la Haye

8.-9.11.84
EPA/EPO/OEB
München/Munich

8.-9.11.1984
EPA/EPO/OEB

15.-16.11.84
EPA/EPO/OEB
Berlin

4.-7.12.1984
EPA/EPO/OEB
München/Munich

22.-23.4.1985
Cannes

11.-14.6.1985
EPA/EPO/OEB
München/Munich

3-6.12.1985
EPA/EPO/OEB
München/Munich

5.-9.11.1984
WIPO/OMPI
Genf/Geneva/Genève

15.-16.11.1984
Wiesbaden

3.-7.12.1984
Straßburg/Strasbourg

25.-26.4.1985
Bad Homburg v.d.H.

Internationale Patentklassifikation

4., revidierte Ausgabe 1984

In die deutsche Sprache übertragen vom deutschen Patentamt unter Beteiligung des Eidgenössischen Amtes für Geistiges Eigentum und des Österreichischen Patentamtes.

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International Patent Classification

1984 (Fourth) Edition

Published by the World Intellectual Property Organization (WIPO), Geneva

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Classification internationale des brevets

Edition de 1984 (quatrième)

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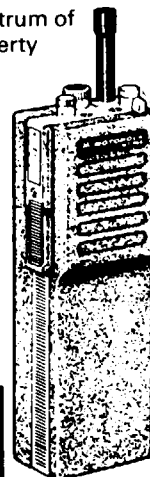
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European Patent Office

EUROPEAN PATENT APPLICATIONS

Questions and Answers*

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Adresser candidature et CV à l'attention de

M. F. MOINAT, S.N.E.C.M.A.
B.P. 81, 91003 EVRY Cedex
France



EUROPEAN PATENT OFFICE DIRECTORATE GENERAL 1 (SEARCH)

PROSTAGLANDINS obtained from the Gorgonian *Plexaura homomalla*

M. Berte, *European Patent Office, The Hague, The Netherlands*

This monograph concerns prostaglandins, which are active substances found in the human body and in other living organisms. They can be extracted and synthesized from a soft coral which grows in the warm, shallow seas of the tropical and sub-tropical part of the western Atlantic ocean.

The history of the research efforts and the present state of the art in the technological process of extracting prostaglandins from the coral (*Gorgonian*) called *Plexaura Homomalla* (Esper 1792) are described. The medical significance of prostaglandins is the subject of intensive research. Their wide spectrum of physiological activity raises a prospect that they may have therapeutic value in several conditions including bronchial asthma, gastric ulcer and cardiovascular disease. It is not yet known what applications may be tested and recommended, but the investment in research suggests that there is a real possibility of economic rewards from the development of efficient and economical means of obtaining prostaglandins.

SFR 45

NICKEL & COBALT EXTRACTION USING ORGANIC COMPOUNDS

J J JACOBS, M ALLARD, S BEHMO and
J MOREAU, *European Patent Office, The Hague, The Netherlands*

Provides a unique survey of the information contained in the patent literature concerning solvent extraction of nickel and cobalt. Presented in three parts, the first deals with leaching of nickeliferous or cobaltiferous sources using organic reagents; the second reviews the solvent extraction of nickel or cobalt, or both from solutions; the third covers solvent extraction methods used to remove impurities from solutions containing nickel or cobalt.

Contents: Leaching of Nickeliferous or Cobaltiferous Sources using Organic Reagents: Using amines alone. Using ketones alone. Using organic acids alone. Using organophosphorous compounds alone. Using mixtures of organic reagents. **Solvent Extraction of Nickel and/or Cobalt from Solutions:** Using one non-heterocyclic organic compound — Using amines. Using oximes. Ketones or aldehydes. Using organic acids. Using cynic acids or derivatives. Using organic agents containing sulfur. Using alcohols. Using phenols or naphthols. Using Mixtures of Acyclic or Carbocyclic Compounds with Organic Extractants of Different Types — Using an amine and an organic acid. Using an amine and an anion of an organic acid. Using a quaternary ammonium extractant and an oxime or a ketone or a heterocyclic compound. Using an oxime and an organic acid. Using an oxime and a sulphonic acid. Using an oxime and a phenol. Using a naphthenic acid and a phenol. Using a phenol and a metal ion collector. **Heterocyclic Derivatives** — Using quinoline derivatives. Using other heterocyclic derivatives. Organophosphorous or Organoboron Compounds — Using alkyl phosphoric acid in combination with another extraction agent.

Using phosphines and/or phosphine-oxides. Miscellaneous organophosphorous compounds. Using organoboron compounds. **Solvent Extraction Methods used for Removal of Impurities from Nickel and/or Cobalt Containing Solutions.** List of cited patent documents. List of patentees. Subject index.

400 pp approx
0 08 030576 8 Hardcover

July 1984
US\$100.00

MICROPROCESSORS

O CORNILLIE and H DAVIES, *European Patent Office, The Hague, The Netherlands*

An in-depth survey of the very latest developments in this rapidly progressing field. Technological innovations which will have sustained and far reaching socio-economic effects on the world's structure will be revealed.

Contents (partial): Introduction: What is a microprocessor? What is a microcomputer? Software. Microcomputer system. Program Control: Program recording and retrieval. Use of specific microprocessors. Programmable logic controllers (PLC). Use of microcomputers to load additional functions. Numerical Control: Positional control. Data input. Machine-interface. Adaptation or optimisation of servo- characteristics. Electric Motor Control: Stepper motors. DC and AC motors. Speed control. Medical Applications: Radiological examination, tomography and other methods of obtaining visual representations of internal organs.

400 pp approx
0 08 030575 X Hardcover

August 1984
US\$100.00

INDUSTRIAL ROBOTS

P LAMMINEUR and O CORNILLIE, *European Patent Office, The Hague, The Netherlands*

The most up-to-date survey of presently available knowledge worldwide in this rapidly growing field. Commences with a concise definition of the different types of robots and proceeds with a detailed description of their construction, programming and their potential uses. Covers the major areas of industrial applications with particular emphasis on flexible manufacturing systems. Contains detailed descriptions of over 170 patents and is clearly illustrated with approximately 200 illustrations.

Contents: Introduction. Construction: The Manipulator Arm — Cartesian type. Cylindrical type (comprising one rotary R- and two longitudinal L-movements). Polar type (comprising two rotary R and one longitudinal L-movements). Anthropomorphic type. Other constructions Modular construction. Drive systems for the manipulating arm. Programmed Control Systems for Robots: Programmable sequence robots. Positioning control. Robots controlled in conjunction with conveyors. Robots controlled in conjunction with other robots or NC-machines. Sensor Systems — Video and visual sensing means. Other sensors. Miscellaneous: Balancing. Security. Mobility. Applications of Robots: Robots with gripper means for transferring objects. Robots equipped with tools for painting/welding/assembly/machining. Other applications. List of cited patent documents. List of patentees. Subject index.

160 pp. 200 illus approx
0 08 031143 1 Hardcover

April 1984
US\$50.00

INORGANIC FIBRES & COMPOSITE MATERIALS A Survey of Recent Developments

P BRACKE, H SCHURMANS and J VERHOEST,
European Patent Office, The Hague, The Netherlands

A compendium of the current state-of-the-art in the technology of inorganic fibre manufacture and its use in the development of new high grade composite materials. Provides comprehensive information that is well in advance of industrial realization with invaluable insight relating to development and expected future trends. Specific entries are provided for the most important types of fibres known to date, each type discussed under manufacture, post-treatments, properties and uses. Also includes high quality photomicrographs, diagrams of the process techniques and molecular structures, bibliographical data, and helpful summaries in tabular form to permit, at a glance, comparative detail of such aspects as metal fibre/metal matrix systems, fibre-matrix combination, ceramic-matrix composites incorporating as appropriate microstructure fabrication method, matrix solidification technique, properties or application field. Lists over 870 patent references.

Contents: Inorganic Fibres, Their Manufacture and Properties: Metal Fibres — Wire drawing techniques. Melt forming techniques. Carbon Fibres — Manufacture processes. Post-treatments of carbon fibres. Boron Fibres — Use of other core materials. Improvements in the CVD process and related apparatus. Polycrystalline Refractory Oxide Fibres — Manufacture processes. Composition, properties and applications. Polycrystalline Refractory Carbide, Nitride and Boride Fibres — Chemical vapor deposition. Other Fibres — Review. New types of fibres developed since 1970. Monocrystalline Fibres; growth techniques — Growth from the vapor phase. Growth from solutions. Growth from gels. Other techniques. Inorganic Fibres Composite Materials: Metal Matrix Composites — The metal fibre-metal matrix systems. The carbon-, boron-, carbide-, boride-fibre-metal matrix system. Ceramic or Glass Matrix Composites — Metal-ceramic systems. Ceramic-ceramic systems. General Methods for the Manufacture of Composite Materials — Methods based on the combination of preformed fibres with matrix material. Methods involving the in situ generation of fibres. List of cited patents. List of patentees. Subject index.

188 pp. 50 illus approx
0 08 031145 8 Hardcover

April 1984
US\$50.00

REVERSE OSMOSIS

P HOORNAERT, *European Patent Office, The Hague, The Netherlands*

A comprehensive survey of the advances and recent developments in the field as revealed from the international patent literature. Over 1300 patent documents have been systematically examined in depth and condensed to provide the most valuable data relating to the important areas comprising: membrane, modules, process and plant design, applications and accessories. Specific attention has been devoted to the Japanese industry where progress has been particularly significant.

Contents: Membranes: Membrane form; technical fabrication. Membrane manufacturing methods and membrane materials. Membrane after treatments. Reverse Osmosis Devices:



EUROPEAN PATENT OFFICE DIRECTORATE GENERAL 1 (SEARCH)

Hollow fibre modules; fabrication. Tubular modules. Flat membrane modules. Spiral-wound modules. Other membrane modules such as the pleat-type module. Rotary and reciprocated modules. Reverse Osmosis Process and Plant Design: Pretreatment. Plant design; flow sheets. Energy considerations. Reverse Osmosis Applications: Production of potable and industrial water. Advanced waste water treatment by reverse osmosis. Mass separations in the industry. Accessories and Auxiliary Operations: Membrane cleaning. Other auxiliary operations; accessories. List of cited patent documents. List of patentees. Subject index.

220 pp
0 08 031144 X Hardcover

April 1984
US\$55.00

OPTICAL FIBRES

G L BEAVEN, J P BOUTRUCHE, J GEISLER, and R PFÄHLER, *European Patent Office, The Hague, The Netherlands*

Optical fibres have been the object of much research and patent activity since they have many potential applications, particularly in signal communications. Compiled from the latest information disclosed in patents from all over the world, this survey provides an up-to-date and comprehensive view of this rapidly expanding technology. Written from a practical viewpoint it explains fibre fabrication, cable design, connectors, optoelectronic building blocks, such as transmitters, receivers, transceivers and repeaters and complete networks.

Contents: Making of Optical Fibres: Processes for making optical fibres. Chemical compositions of optical fibres. Optical Cables: Cables with one single optical waveguide. Cables with multicore structure. Strengthening and protecting features. Cables for special applications. Optical Fibre Connectors, Terminals and Branches. Fibre Optic Telecommunication: Optical fibre transmission. Transmitters for optical fibres. Optical fibre receivers. Optical repeaters. Optical transceivers. Optical networks.

400 pp approx
0 08 030577 6 Hardcover

August 1984
US\$100.00

DYNAMIC SEMICONDUCTOR RAM STRUCTURES

A CARDON and L FRANSEN, *European Patent Office, The Hague, The Netherlands*

This patent survey (the first of its kind) traces the evolution of dynamic semi-conductor RAM structures. All the basic one-transistor cell structures are discussed in chronological order. These include not only the classical cells, eg the CC RAM, Hi-C RAM, the VMOS, the merged charge, the stocked capacitor cells, but also modern dynamic gain cells like the taper-isolated and the stratified memory cells. The survey gives a complete review of all the proposed modifications and fabrication processes; RAMs in which the data are frozen after power interruption and RAMs with inherent ROM characteristics are reviewed. Improvements proposed for reducing leakage and for preventing soft errors induced by alpha-rays are also discussed. The survey ends with the description of the other dynamic cell types, eg. bipolar or junction FET memory cells.

Contents: Glossary of common MOS RAM terms and acronyms. The Basic Cells: Introduction. One-transistor cell with diffusion storage. One-transistor cell with surface-charge storage. Single-electrode charge coupled RAM cell (CC RAM). The buried bit line cell (BBL cell). The random access charge coupled device. Proposed improvements to the T-T cell: Introduction. The storage node. The upper structure. The bit access. The transfer region. The construction of the dummy cell. Proposed Improvements to the Other Basic Cells: Improvements of the CC RAM cell. Improvements of the complementary cell. Improvements of the STC cell. Improvements to the vertical channel cells. improved junction FET sensing. Soft Error Prevention: Leakage reduction. Prevention of alpha particles induced soft errors. Non-volatile Backup and RAM-ROM Operation: Non-volatile storage of RAM data. RAM-ROM structures. The Other Dynamic Cells: The bipolar cells. The junction FET cells. The MESFET cells. The SIT cells. The multiple-electrode MOS cells. Appendix A: Patent number index. Appendix B: Inventor index. Appendix C: Company index. Keyword index.

488 pp 400 illus approx
0 08 030578 4 Hardcover

April 1984
US\$95.00

SOLID STATE VIDEO CAMERAS

A CRISTOL, *European Patent Office, The Hague, The Netherlands*

A complete review of the state-of-the-art in the field of solid state television cameras as compiled from a systematic survey of the international patent literature. Scanning and signal read-out methods are described and solutions for improving picture quality, such as noise reduction, blooming prevention, background suppression or uniformity corrections, are presented. Colour cameras are also considered in detail.

Contents: Introduction. Basic Array Types of Solid State Imagers: Charge coupled device imagers. Charge injection imagers. MOS imagers. Interlaced Scanning: Optical interlacing. Mechanical interlacing. Electrical interlacing. Spurious signals suppression: Selection of a substitution signal when a faulty element is detected. Subtraction of noise from the output signal of the sensor. Smear reduction. Background and dark-current corrections. Non-uniformity corrections. Provisions in the read-out circuit for reducing noise. Blooming Control. Colour Solid-State Television Cameras: Hybrid cameras. All-solid-state cameras.

250 pp approx
0 08 030579 2 Hardcover

July 1984
US\$62.50

SILICON NITRIDE AND SILICON CARBIDE CERAMICS

H. SCHURMANS, *European Patent Office, The Hague, The Netherlands*

A worldwide and up-to-date survey of the current state-of-the-art in the technology of silicon nitride and carbide engineering materials for high temperature-high strength applications as revealed by the international patent literature. The survey covers recent developments of fabrication technology with particular emphasis on

sintering methods and particular compositions in relation to potential uses.

Contents: SILICON NITRIDE. Introduction. Sintering methods: reaction sintering, pressureless sintering, hot-pressing, hot isostatic pressing (HIP). Sialons and related silicon oxynitrides. Shaping. Particular compositions and applications. SILICON CARBIDE. Introduction. Sintering methods: reaction sintering, pressureless sintering, hot-pressing, hot isostatic pressing. Pyrolysis of pre-silicon carbide polymers. Shaping. Particular compositions and applications. List of cited patent documents. List of patentees. Subject index.

METHODS OF ABATING RESIDUAL FORMALDEHYDE IN INDUSTRIAL RESINS

G. DERAEDT, *European Patent Office, The Hague, The Netherlands*

Reducing the release of residual formaldehyde from products based on this kind of resins is the object of much concern and research, since it is known that these vapours can seriously affect health. Compiled from the information disclosed in patent literature, this survey gives a view of the problem, its causes and the solutions that have been applied until now. Formaldehyde release is especially noticeable in particle-board and in insulation foams. Other fields are also reviewed.

Contents (partial): Introduction: why reduce formaldehyde release. Causes: unreacted formaldehyde, humidity degradation. Solutions: coating applications, chemical treatment before or after resin application; the use of resin additives and new resin formulations; mechanical treatments. Tables of cited documents, subject index.

VACCINES FOR VIRAL HEPATITIS

G. REMPP, *European Patent Office, The Hague, The Netherlands*

The need of a hepatitis B virus vaccine is reflected by the great number of patents filed. The present patent survey includes all kinds of viral hepatitis vaccines, not only against human hepatitis B virus, but also against human hepatitis A and C viruses and animal hepatitis viruses. Over 330 patents have been examined in depth to select the most important information contained therein.

Contents: Introduction. HUMAN HEPATITIS VACCINES. Hepatitis A virus: Virus culture on cell lines; Antigens used for manufacture of vaccines and vaccines; Miscellaneous. Hepatitis B virus: Hepatitis B antigens and vaccines (Blood antigens; Genetic engineering of HB antigens; Virus vaccines; Miscellaneous). Hepatitis B surface antigens and vaccines (Recovery of HB_sAg from biological sources; Genetic engineering of HB_sAg; (Recovery of HB_sAg from cell cultures; synthetic HB_sAg; Vaccines); Hepatitis B core antigens (Recovery of HB_cAg from biological sources; Genetic engineering of HB_cAg; Vaccines); Hepatitis B e Antigen. Non-A non-B viral hepatitis (Recovery of the antigens from biological sources; vaccines). ANIMAL HEPATITIS VACCINES. Canine hepatitis virus; other animal viruses. MISCELLANEOUS. List of cited patent documents. List of patentees. Subject index.