APPLICATIONS FOR REGISTRATION OF TRADE MARKS IN NAMIBIA
(Applications accepted in terms of Act No. 48 of 1973)

Any person who has grounds for objection to any of the following trade marks, may, within the prescribed time, lodge Notice of Opposition on form SM 6 contained in the Second Schedule to the Trade Marks Rules in Namibia, 1973. The prescribed time is two months after the date of advertisement. This period may on application be extended by the Registrar.

Where the Gazette is issued late, the period of opposition will count as from the date of issue and a notice relating thereto will be displayed on the public notice board in the Trade Marks Registry.

Formal opposition should not be lodged until after notice has been given by letter to the applicant for registration so as to afford him an opportunity of withdrawing his application before the expense of preparing the Notice of Opposition is incurred. Failing such notice to the applicant an opponent may not succeed in obtaining an order for costs.

“B” preceding the number indicates Part B of the Trade Mark Register.

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E.T. KAMBOUA
REGISTRAR OF TRADE MARKS FOR NAMIBIA
Note - Neither the abovementioned office nor the Government Printer of the Republic of Namibia guarantee the accuracy of its publications or undertake any responsibility for errors or omissions or the consequences.

**DESIGN REGISTRATION FOR 1991**

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For the period 91/01/01 to 92/06/05.
No. 588  |  Government Gazette  |  13 February 1993  
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87/0009 | 1 | 92/04/03 | IMPERIAL CHEMICAL INDUSTRIES PLC
87/0017 | 3 | 92/07/29 | SHELL SOUTH AFRICA (PTY) LTD.
87/0016 | 3 | 92/07/29 | SHELL SOUTH AFRICA (PTY) LTD.
87/0008 | 16 | 92/04/03 | SOCIETE GENERALE DES EAUX MINERALES DE VITTEL
87/0022 | 3 | 92/09/18 | AECI LIMITED
87/0023 | 5 | 92/10/14 | AECI LIMITED
82/0003 | 1 | 92/08/27 | FLUID HOLDINGS LIMITED
## DESIGN REGISTRATION FOR 1992

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Where a provisional Specification accompanies an application, an asterisk is prefixed; where no asterisk appears, the application was accompanied by a complete Specification.

Copies of the Specifications of these applications cannot be supplied until the application have been accepted and advertised, or in the case of convention applications; until 18 months from the date of application in the convention country.

In all correspondence reference should be made to the number of the application.

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THE PARTICULARS APPEARS IN THE FOLLOWING SEQUENCE:

APPLICATION NUMBER, FULL NAME OF APPLICANT (IN BOLD TYPE), ASSIGNOR (IF ANY), TITLE AND FIRST PRIORITY (IF ANY)

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PATENT OFFICE

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Where a provisional specification accompanies an application, an asterisk is prefixed, where no asterisk appears, the application was accompanied by a complete specification.

Copies of the specification of these applications cannot be supplied until the applications have been accepted and advertised, or in the case of convention applications, until 18 months from the date of application in the convention country.

In all correspondence reference should be made to the number of the application.

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92/0074* - THE BOC GROUP, INC. - Arthur I Shirley and Alberto I LaCava - Pressure swing adsorption (PSA) system with product turndown and purity control

92/0075 - SHELL RESEARCH LIMITED - Jean-Pierre Gilson, Arend Hoek, Jacobus Teodorus Daamen, Aan Hendrik Klazinga and Carolus Maria van Ballegoy - Hydroconversion catalyst

92/0076 - SHELL RESEARCH LIMITED - Carolus Maria van Ballegoy, Jean-Pierre Gilson, Arend Hoek, Jacobus Theodorus Daamen and Aan Hendrik Klazinga - Process for the preparation of Middle distillates

92/0077 - SHELL RESEARCH LIMITED - Carolus Maria van Ballegoy, Theofeil Meuris, Martinus Nanne and Jean-Pierre Gilson - Process for the preparation of hydrocarbon fuels
22/0078 - IMPERIAL CHEMICAL INDUSTRIES PLC - Geoffrey Frederick Brent and Malcolm David Harding - Shock tube initiator

22/0079* - THE BOC GROUP, INC. - Loo T Yap - Fuel Burner apparatus and method for use in a furnace

22/0080* - THE BOC GROUP, INC. - Ron C Lee - Point level detector

22/0081* - IMPERIAL CHEMICAL INDUSTRIES PLC - Geoffrey Frederick Brent and Malcolm David Harding - Shock tube initiator

22/0082 - ENVIROTECH (PTY) LTD. - Peter Hume Glendinning - Filter press and method of operation

22/0083* - MALCOLM JAMES CAMPBELL ROELOFSZ - Low cost collapsible enclosure

22/0084 - SIEGBERT HEIRICH BISSBORT AND HERNRY JOHN DAVIS - Substance or composition and uses thereof

22/0085 - DEVANDRA KESHAV KALA - Dialysis apparatus

22/0086* - DE BEERS MARINE (PROPRIETARY) LIMITED - Johannes Duijzers - Submersible solid material lifting and classification device

22/0087* - MANOLI CONSTANTINE LIVANOS - Stationary rack oven

22/0088* - THE BOC GROUP, INC. - Walter H Whitlock - Mixture forming method and apparatus

22/0089* - ELI LILLY AND COMPANY - Peter Lloyd Oren and Werner Max Karl Seidler - Subsisted release matrix formulations

22/0090* - THE BOC GROUP PLC - Michael Ernest Garrett - Apparatus for removing hydrocarbon impurities from gases

22/0091* - NET 1 PRODUCTS (PROPRIETARY) LIMITED - Andre Peter Mansvelt and Serge Christian Pierre Belamant - Funds transfer system

22/0092 - HYPAROOF CC - Jacques Pienaar and Hendrik Johan Daling - Roof

22/0093* - AFRICAN OXYGEN LIMITED - Colin John Precious and Raymund Thomas - Soldering

22/0094* - ELI LILLY AND COMPANY - David Bennett Anderson, Edward Lee Veenhuizen, Klaus Kurt Schmiegel and Ronald Ralph Tuttle - Phenethanolamines
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<td>JACOBUS OOSTEVALD HORN - Cementitious composition</td>
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<td>CSIR - Edgar Edward Evans, Benjamin Fouche, Eli David Goldstein and Adrian David Michie - Access system</td>
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<td>DR. KARL THOMAE GMBH - Roland Maier, Eberhard Woitun, Bernd Wetzel, Wolfgang Reuter, Hans Goeth and Uwe Lechner - Improvements relating to erythromycine derivatives</td>
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<td>AFRICAN OXYGEN LIMITED JOHN TERENCE LAVIN - Separation of hydrogen</td>
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<td>IRECO INCORPORATED - Donald M Stromquist and Boyd J Wathen - Cast primer and small diameter explosive composition</td>
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| 92/0111* | CARL H KRUKOU, ADMINISTRATOR, INTERNATIONAL PATENTS  
Ben (NMN) Duh - Solid state polymerization process |
| 92/0112* | IMPERIAL CHEMICAL INDUSTRIES PLC - Raymond Oliver  
Drilling process |
| 92/0113* | PETER STATHOULIS - The erection of structures |
| 92/0114* | AFRICAN OXYGEN LIMITED - Donald P Satchell JR, Alberto Ignacio LaCava and Craig Charles Ibbetson - Treatment of water |
| 92/0115* | WORLDWIDE BUILDING SYSTEMS NV - Ebrahim Bagus and Adriaan Johannes Robertson - Panel structure and panel for use in forming such structure |
| 92/0116* | AFRICAN OXYGEN LIMITED - David Grant Wardle - Cooling apparatus |
| 92/0117* | FRANK VICENT VAN DER STRUYS - Panel moulding machine |
| 92/0118* | FRANK VICENT VAN DER STRUYS - Wall Panels |
| 92/0119* | CSIR - Nicolaas Hendrik Arnold and Keith William Bowen - Accessory for a roof covering |
| 92/0120* | CHEMICAL SERVICES LIMITED - Johannes Meintjies de Beer - Drilling mud additive |
RESTORATION OF A LAPSED PATENT

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THE PATENTS ACT, 1916 (ACT 9 OF 1916)

In term of section 36 of the Patents Act, 1916, of a patent shall be deemed to have been sealed and granted as from the date of publication of the acceptance.

THE REFERENCE DENOTE THE FOLLOWING:

Number of application, date of application, date of acceptance, name of applicant(s), name of all inventors, country number and date of convention application, title of invention, number of sheets and abstract.

90/115
20 August 1990
19 July 1991
Sentrachem Limited
Anthony Patrick Reynolds, Peter Frederick Nel, Peter John Leopold, Mark Burdon Cocksedge

Flocculant composition

This invention relates to a flocculant composition. More particularly it relates to a flocculant composition for the classification of water such as wastewater or water for human consumption, by removing suspended solids therefrom.

90/118
29 August 1990
12 February 1992
Jeffrey Stanley Samson and Peter Marshall Myers
Jeffrey Stanley Samson and Peter Marshall Myers

Display board

This invention relates to a display board for displaying information about a topic, for example a disease such as aids or an environmental problem such as the depletion of the ozone layer.

90/0121
10 September 1990
20 May 1991
ICI Australia Operations (Proprietary) Limited
Ross Sanders, Vladimir Sujansky and Robert Sheahan

Explosive composition

This invention relates to cap-sensitive explosive compositions, in particular to emulsion explosives doped with solid particulate ammonium nitrate which stability and cap-sensitivity despite containing relatively high levels of dopant.

90/0122
18 September 1990
A credit supply system

This invention relates to a credit supply system. More particularly, to an electronic credit supply system used for the pre-payment of goods or services and to a method of supplying credit.

Cyclone separating apparatus comprising a longitudinally slotted thimble

This invention relates to a cyclone for separating a phase of lesser density from a phase of greater density, one phase being dispersed in the other, comprising a slotted thimble for with drawing from the core region of the cyclone space the phase of lesser density accumulating in the core region, the longitudinal slot being spiral-shaped in screwlike fasion.
This invention relates to a cyclone having an energy-saving thimble design. Cyclones are used for separating a phase of lesser density from a phase of greater density, one phase being dispersed in the other. Commonly used prior art apparatus of this type comprise a thimble, i.e. a central coaxial tube projecting into the core region of the separating space for withdrawing the phase of lesser density accumulating in that region.
Professor Dr.-Ing. Paul Schmidt

Process and apparatus for cyclonic separation of intermixed phases

This invention relates to a process for cyclonic separation of two intermixed phases of which one, the dispersed in finely divided from in the other by causing the intermixed phases to spin in a radial cyclone space about a central axis of the cyclone space, whereby centrifugal action brings about radial separation of the two phases.

90/0126
27 September 1990
24 April 1991
Dr Celia Erasmus
Dr Celia Erasmus
Hypoallergenic infant formula
There is disclosed a hypoallergenic (oligoantigenic) nutritional formula comprising a homogenous powder of such fineness that it will from a water suspension resembling milk which will have acceptable stability, will keep fresh in a refrigerator after Realimentation for approximately 24 hours and will not block a standard feeding teat, comprising meat selected for its low allergenicity as the sole or substantially the sole source of protein content together with lipid and carbohydrate additives, and a vitamin and mineral contact, all in such proportions as will constitute a nutritionally balanced food which may be regarded as hypoallergenic and/or oligoantigenic.

90/0130

3 October 1990

23 January 1992

CSIR

Michael John Camille Marsh, Raymond Catherall Atkins and Trevor Meredith Hodson

Timing apparatus

This invention relates to a timing apparatus, and in particular to a timing apparatus for activating a plurality of electrical loads at determined time intervals in blasting operations.

During mining and quarrying operations, it is necessary to detonate a series of explosives charges in an accurately timed sequence to achieve the correct blast pattern. This invention provided an apparatus for activating a plurality of electrical loads after predetermined time delays.
This invention relates to a sleeping bag. Conveniently the sleeping bag as one or more apertures and the attachment means comprises one or more first straps, each being adapted to be passed through a corresponding aperture before it is fastened to the bed. The apertures may conveniently be provided in strategic positions or in locations which are convenient to the user.
This invention relates to a method of supporting narrow necked vessels and to support device for supporting narrow necked vessels. This is a method of supporting a set of narrow vessels having relatively wide bodies and protrusions like shoulders or ridges toward their tops, the method including supporting the vessel in close, side-by-side relationship in a support device defining outwardly closed, inwardly open, opposed recesses arranged at a predetermined spacing and which receive the necks of the vessels snugly so as to support the vessels via said protrusions, the predetermined spacing being such that the vessel check each other by means of their wide bodies against inward displacement out of the recesses.

FIG 1

FIG 2

90/0135

9 October 1990

9 August 1991

Metador Industries (Proprietary) Limited

Anthony Victor Trowbridge
Road Maintenance

13

The invention relates to road maintenance and particularly to the maintenance of gravel roads. It is an apparatus for smoothing the surface of a gravel road comprises towing as mat which can be towed over the road surface behind a towing vehicle, the mat comprising a plurality of wave-form members arranged side-by-side and extending transversely of the towing direction so as to sweep over the road surface during towing, the members defining spaces between them through which disturbed gravel can flow.

Hydraulic gate

19

This invention relates to gates and more to gates which are automatically operated. It provide a gate of relative simple construction which operates automatically be utilizing the pressure exercised by the weight of a motor vehicle passing through the gate.
This invention relates to a convection elution apparatus and method for removing an adsorbed substance from adsorbent material and related particularly, but not exclusively, to such an apparatus and method for removing gold from activated carbon.

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This invention relates to a fixed-bed fisher-tropsch catalyst and method of manufacture thereof, and to a process for the production of aliphatic hydrocarbons comprising wax.
This invention relates to a pipe coupling. Piping uses for irrigation purposes generally comprises standard lengths of piping which one joined together as required by couplings. Ideally, such couplings should be simple and robust in construction, easy to operate, and should provide a good seal.
This invention relates to a method and apparatus for classifying particles comprising the steps of applying a swept frequency range of electromagnetic radiation to a cavity while the particle is in the cavity, detecting and analysing the signals transmitted by the cavity and assigning a classification to the particle in accordance with charges in the dielectric characteristics of the cavity caused by the presence of the particle, characterised in that the electromagnetic radiation is applied to the cavity in at least two mutually orthogonal directions.

Diagram of the apparatus

90/0144
1 November 1990
20 February 1991
Otto Hein van der Dussen
Otto Hein van der Dussen

**Tipping kit**

13

This invention relates to a tipping kit for a vehicle having a load carrying platform thereon and which includes a frame locatable on a chassis of the vehicle, the frame providing at least one pivotal connection whereby a load carrying platform of the vehicle is capable of being pivotally connected to the frame, and at least one inflatable bag having connection means for connecting it to a pressurized gas source and operable when inflated, to displace the load carrying platform form load carrying position to a tipping position.

90/0146

12 November 1990

12 August 1991

Clasica Bricks (Proprietary) Limited

Robert Irvine Low

**Building Block**

14

This invention provided a building block whose bonding surface, on one side of an imaginary, longitudinally extending, central vertical plane, has a profile, in end view of the building block, which is the inverse of the profile on the other side of said plane, there being at least one flat-crested longitudinally extending ridge on one side of said plane and a complementary valley on the other side of said plane; and whose other bonding surface has a series of transversely extending flat-crested ridges alternating with complementary valleys, the profile of the ridge and valley of said one bonding surface, in end view of the building block, corresponding to the profile of the ridges and valleys of said other bonding surface, in side of the building block.
The trustees for the time being of the vosloo trust

Christiann Frederick Vosloo

Auctioning of livestock

This invention relates to the auctioning of livestock. It relates more specifically to a method of measuring of mass of livestock to be auctioned, and also to an auction enclosure:
90/0152
22 November 1990

19 June 1991

Imperial Chemical Industries PLC

Neil Tindale

Polyester bottles

This invention relates to packaging material, particularly bottles made from particular polymer compositions, particularly polyester polymer composition.

90/0153
4 December 1990

25 June 1991

CSIR

Anton Heyn

Building

This invention relates to a method of constructing a panel structure, suitable for use as a roof structure or a floor structure, from a plurality of like building elements. It also relates to a building element suitable for use in the method, and to a panel structure whenever constructed in accordance with the method employing said building elements.
Wall component for the dry construction of walls, construction set for the stabilization of side slopes, and retaining wall formed using said construction set.

This invention relates to impact compactors which is a device for performing impact compaction of soil.
This invention is concerned with the recovery of gold and silver from ores deemed to be "refractory ores" and, more particularly, with the recovery of such precious metals using a cyanide leaching technique.

This invention provides a method of separating particulate material according to the electrical conductivity of the particles of the material, the method comprising irradiating the particles with microwave or radio frequency electromagnetic radiation and subjecting the irradiated particles to a magnetic field so that eddy currents induced in the particles by the electromagnetic radiation interacts with the magnetic field to cause movements, dependent upon electrical conductivity, of electrically conductive particles.
90/0158
6 December 1990
17 July 1991
De Beers Industrial Diamond Division (Proprietary) Limited

Edwin Harm Roos

IIB Diamond sorting

12

This invention provided a method of distinguishing type IIB diamonds from other diamonds, the method comprising the steps of subjecting diamonds to a varying magnetic field or to electromagnetic radiation chosen to induce eddy currents in the type IIB diamonds and identifying type IIB diamonds as those diamonds which are heated up to level greater than a predetermined level.

90/0159
12 December 1990
5 April 1991
Dresser Industries, Inc.
Theodore R Dysart

Sealed rotary blast hole drill bit utilizing air pressure for seal protection.

43

This invention provides means for protecting the lubrication sealing arrangement of a rotary drill bit with air pressure.
This invention provides a twist lock mechanism comprising a housing adapted to be secured to or be integrally formed with a support, the housing including an upper plate formation, a locating body which terminates at its upper and in a locking head, the body being movable between a retracted position wherein it is disposed within the housing and an operative extended position where in the locating body projects through an aperture in the supper plate formation of the housing, the arrangement being one wherein the locating body is rotatable to a position wherein its seats on and is supported by the upper plate formation, and mating engagement formations associated with the locating body and the housing, the formations being adapted releasable to lock the locating body against rotation out of the supported position.
This invention relates to gas separation apparatus. In particular, it relates to apparatus separating a gas mixture by means of semi-permeable membranes through which the respective components of the mixture diffuse at different speeds.

This invention relates to a pharmaceutical preparation for oral administration includes an antibiotic compound, a carbonate compound, and an acid compound prepared in effervescent tablet form, the antibiotic compound being L-Amino-P-Hydroxybensil-Pencillin (Amoxycillin).
Humane slaughter of poultry

This invention aims at providing a new method and apparatus for slaughtering poultry which eliminates or reduces the stress associated with electrical stunning and also reduces the incidence of muscular haemorrhaging and broken bones in the carcasses.

Anoxic poultry stunning

This invention relates to a method for the treatment of poultry prior to slaughter so as to produce carcasses with improved properties. It aims at providing a method of slaughtering poultry which provides a better opportunity for deboning or portioning a carcass at an earlier stage post mortem.
This invention relates to walling. More particularly it relates to a method of erecting a wall, to a wall and to a wall kit.

This invention relates to the sharpening of hardmetal buttons on button-type drill bits.
Apparatus for use in the anaerobic treatment of organic material

According to the apparatus for anaerobic treatment of organic material comprises a container having a digestor zone in communication with a clarifier zone via at least one opening in partitioning means located between the digestor and clarifier zones, the clarifier zone including a primary clarifier zone and at least one secondary clarifier zone, the primary and secondary clarifier zones being separated from one another by a weir formation.
Method and apparatus for securing rope or cable to an overhead structure

This invention relates to a method and apparatus for securing a rope or cable to overhead structure such as the top of a pole which supports electricity transmission lines.
This invention relates to skip and mines. The inventor has development a skip intended to operate with the head gear of a conventional mine without substantial changes to the mine shaft, while having the abovementioned design criteria in mind.

91/0015
26 February 1991
14 May 1991
CSIR
Nicolaas van der Dussen and Cornelis Petrus Geyer
Recovery of aluminium, potassium, and magnesium values from ore bodies.

This invention relates to a method of recovery aluminium potassium and magnesium values from a mineral source containing such values in combination with one another.
91/0016
28 February 1991
15 October 1991
Imperial Chemical Industries PLC
Manish Sarkar Polymers
51
This invention relates to a certain novel polymers having hydrolysable group bearing silicon atoms, to a process for their preparation and their use in coatings.

91/0017
28 February 1991
15 October 1991
Imperial Chemical Industries PLC
Manish Sarkar
Polymers
60
This invention relates to certain novel co-polymers, their preparation and use in coating compositions.
This invention relates to a dismountable shuttering system and to a method of building a walled structure.
24 May 1991
The BOC Group, Inc.
Ravi Jain

Purifying fluids by adsorption

This invention relates generally to processes and apparatus for purifying fluid, and more particularly, for removing water vapor and carbon dioxide from air by temperature - swing adsorption.
This invention relates to an apparatus for delivering a cryogen in pure liquid and gaseous forms, more particularly it provides an apparatus capable of receiving a cryogen, such as nitrogen or carbon dioxide, of arbitrary quality and repeatedly delivering measured amounts of a pure liquid form of the cryogen and/or a pure gaseous form of the cryogen.

91/0021
6 March 1991
13 September 1991
Imperial Chemical Industries PLC
Michael William Beck and John Flanagan
Accessory
13

This invention relates to a novel pyrotechnic delay composition characterised by low toxicity, moisture resistance and uniform burn rate. In particular it relates to a delay composition of intermediate to slow-burning time range for use in both non-electrical and electrical blasting caps and inline delay devices to introduce a measured delay in initiation signal transmission to a blast charge.
91/0022
7 March 1991
19 September 1991
Imperial Chemical Industries PLC
Alan Hamilton Noble and David Proven Sutton

Low energy fuse

This invention relates to a low energy fuse of the type comprising tubing having a coating of reactive composition (usually a shock-dislodgable unconsolidated mixture of particles) on the inner wall thereof for propagating a shock wave along the tube.

91/0025
15 March 1991
10 May 1991
Literock International (Proprietary) Limited
Gerald Alan Derby-Lewis

Aggregate for use in making structural elements

A method of producing a lightweight building material, such as an aggregate, comprises mixing clay powder with a high percentage of coal dust to create areas of coal within the mixture which present a desired density of voids, pelleting the mixture in the case of aggregate and firing it to burn off the coal and harden the clay. The burning off of the coal leaves lightweight void areas within the hardened clay to form a lightweight building material or aggregate.
91/0026
14 March 1991
29 May 1991
The BOC Group, Inc.
Ravi Jain and Alberto La Cava
Pre-purification of air for separation

This invention relates to the removal of unwanted gaseous impurities from air prior to introduction into a conventional separation unit.

91/0028
22 March 1991
19 July 1991
The BOC Group, Inc.
Eiji Hirooka
Process for producing oxygen enriched product stream
This invention relates to a process for obtaining an oxygen enriched gas from a mixed gas containing principally oxygen and nitrogen as gas components, such as air, by means of pressure swing adsorption.

Blasting composition

This invention relates to explosives for use in mining, both packaged and bulk explosives, which are not cap sensitive and are commonly called blasting agents. In particular, this invention relates to blasting agents containing particulate solid oxidiser materials of selected particle size.
Ravi Jain

Pre-purification of air separation

This invention relates to removal of unwanted gasses from air prior to introduction into a conventional separation unit.

Protective filling valve

This invention is concerned with valves for dispensing from and filling containers with fluid under pressure. The valve includes a feature that it can be locked against unauthorised filling of the container through inclusion of a non-return valve lockable against being rendered inoperable in the valve assembly.
The invention relates to a process for extracting one or more metals selected from the group consisting of Ge, Ga, In, As, Sb, Bi, Pt, Pd, Ni and Co from an acid aqueous solution containing said one or more metals, according to which the acid aqueous solution is contacted with a solid ion exchanger at a pH at which the ion exchanger absorbs said one or more metals, said ion-exchanger resulting from the reaction of a carrier material, containing NH - and/or NH₂ - groups that are able to react with aldehydes, with

a) an aldehyde and
b) 8-Hydroxyquinoline and/or an 8 Hydroxyquinoline derivative, and possible
c) a swelling agent and/or a solvent
African Oxygen Limited
Andrea Buttke
Air separation
29

This invention relates to the separation of air, particularly to produce an oxygen product.

91/0038
15 April 1991
3 May 1991
I C I Canada Inc.
Anh Duy Nguyen
Sensitized explosive
29

This invention relates to high explosives, and in particular, to an explosive sensitizer to be used as a blasting agent, per Se, or used as sensitizing agent.

91/0039
17 April 1991
23 October 1991
Steiner Services (Proprietary) Limited

Michael Anthony Buckley

Outlet for a container containing a fluid

This invention relates to an outlet assembly for a container containing a fluid.

91/0042
24 April 1991
26 November 1991
Aeci Limited

Richard Charles Michael Houston and Julian Taylor

Explosive

This invention relates to an explosive. It relates in particular the manufacture of an emulsion explosive comprising a discontinuous phase which forms an oxidizing salt-containing component and a continuous phase which is immiscible with the discontinuous phase which forms a fuel component.

91/0043
24 April 1991
29 October 1991
Rake sorter

This invention relates to a rake sorter and to a method of sorting particulate material according to size or shape.

91/0045

2 May 1991

15 November 1991

African Cables Limited

Georgio Pauselli

Thermal insulants

This invention provides a thermal insulant in the form of a moulded body which comprises a predetermined proportion by weight of a non-organic, thermally insulating, particulate filler material and a smaller proportion by weight of a phenolic binder which binds the particles of the filler material. Furthermore provides it a method of making a thermal insulant in the forms of a moulded body and a method of thermally insulating a chilled water pipe in an underground mine, this method comprising the step of surrounding the pipe with one or more thermal insulants.

91/0050

21 May 1991

1 November 1991

Atlas Powder Company

John Joseph Mullay and Jane Michele Farkas
Coating for solid additives

This invention relates to coating for solid additives for water-in-oil and melt-in-fuel emulsion explosives and blasting agents. Specifically, the invention relates to coatings which make the additives more compatible with the water-in-oil or melt-in-fuel emulsions and also improves the stability of the water-in-oil or melt-in-fuel explosives.

Prill for emulsion explosives

The invention relates to blended explosive compositions utilizing a derivative of polyisobutylene succinic anhydride as an emulsifier. Specifically, the invention relates to a blended explosive composition utilizing a polyisobutylene succinic anhydride as an emulsifier and an oxidizer salt prill which is compatible with the emulsifier.

Antimalarial compositions

This invention relates to a synergistic antimalarial composition, methods of treating malaria by administering that composition, and to a process for the preparation of that synergistic antimalarial composition.
High surface area zirconia

High surface area zirconia, having a surface area after calcination, is obtainable by a process comprising aging zirconium hydroxide in the presence of an acid of an element of group V or VI of the periodic table of elements and calcining the zirconium material so-obtained. The preferred acid is phosphoric acid, in particular orthophosphoric acid. A high surface area zirconia is provided having a surface area of at least 180m$^2$/g after calcination at a temperature of 300°C.

Pressure swing adsorption method for separating gaseous mixtures

This invention is directed to a method for separating a gaseous mixture to produce an enriched gas. More particularly, this invention is directed to an improved pressure swing adsorption method for separating gaseous mixtures which comprises and adsorption step, a pressure equalization step, a back fill step, and an evacuation and purge step.
A novel initiator (blasting cap) for explosives is provided. The initiator, which may be electric or non-electric, comprises a principal tubular metal shell containing a base charge, a delay charge, a priming charge and an ignition means, wherein the base charge and priming charge are housed within a reduced diameter tubular metal shell, which reduced diameter shell is located within but separated from the principal shell by void space. The construction results in a markedly improved resistance against shock initiation.
Two-stage peroxide bleaching process

The present invention relates to the bleaching of mechanical pulps with peroxide, and in particular to bleaching of mechanical pulps with hydrogen peroxide in two stages.
Bateman Project Holdings Limited
Yosef Kivovitch Rabinovitch and Dudley Brian Smith

Conveyor system

40

The invention a conveyor system characterised in elevating or lowering means for conveying material vertically, comprising a generally spiral support structure and a plurality of spaced support means defined by the structure and adapted to guide a conveyor belt in the form of a tube in a generally spiral pathway.

91/0062
5 July 1991
2 August 1991
ICI Canada Inc.
Anh Duy Nguyen

Chemically gassed emulsion explosive

21

The present invention is related to emulsion explosives and more particularly, to emulsion explosives that have been sensitized by chemical gassing agents.

91/0065
8 July 1991
22 October 1991

The BOC Group, Inc.

Arthur I Shirley and Alberto I La Cava

Pressurization PSA systems for the production of high purity product gas

This invention relates to the production of an inert product gas from a feed gas containing at least one inert gas and impurities, utilizing pressure swing adsorption techniques. More particularly, this invention relates to a cyclic process wherein the treatment zone is prepressurized to production pressure either by feed gas alone fed in an initial slow stage followed by a rapid second stage, or by production gas feed gas with the feed gas being introduced in a one stage profile or in a two profile as described above.

91/0069

12 October 1991

22 October 1991

Imperial Chemical Industries PLC

John Colin Middleton and Michael Cooke

Agitators

This invention relates to agitators for the dispersion of a fluid in a liquid.
This invention relates to sealant compositions especially, although not exclusively, for protecting electrical cables against the ingress of moisture. Another use envisaged for the sealant composition of the invention is in the provision of moisture-proof gland packings.

This invention relates to the purification of helium and particularly to a method of refining helium through complete removal of hydrogen impurity by catalysis and complete methane and partial or complete nitrogen removal by pressure swing adsorption.
Wheels for vehicle

The wheel include a central hub suitable for mounting to an axle and a rigid annular outer rim support on the hub by a plurality of elastomeric support assemblies at import integral springing to the wheel, the elastomeric support assemblies including the annular elastomeric member located at its first and second ends by first and second mounting members one of which preferable is cup shaped to engage with the outer surface of the end of the elastomeric member and the other of which includes a frusto conical member to engage with the inside of the other end of the elastomeric member.
This invention relates to a light meter, in particular to a detector for a light meter.

91/0088
30 August 1991
24 October 1991
The BOC Group, Inc.
Robert P D'Orazio and John P Raksawski

Removal of cyanide aqueous streams
16
This invention relates to the removal of cyanide ions from aqueous streams, and more particularly to the removal of cyanide ions from industrial process waste water streams.

91/0090
13 September 1991
18 October 1991
Aeci Limited
Rhode Schilindler Truter

Compaction apparatus
20
This invention relates to compaction apparatus and more particularly, but not exclusively, to compaction apparatus for forming mixtures of animal feed supplements into blocks or licks.
This invention relates to the treatment of food and other products.

91/0098
4 October 1991
According to the invention a solar device includes an insulated box shaped container having an open upper end; a glass cover covering the open upper end; and an inner plate located in the container acting as a heat sink.

This invention relates to the separation of gas mixtures. It is particularly concerned with the separation of gas mixtures by dephlegmation, otherwise known as reflux condensation. Dephlegmation or reflux condensation is a method in which a gaseous mixture which is being separated by rectification is simultaneously heat exchanged with a fluid stream that is raised in temperature by the heat exchange and thereby condenses fluid being rectified to create a reflux flow for the rectification.
This invention relates to the creation of identification marks of other visible or invisible (but detectable) indicia on diamonds, for the purpose of quality control, consumer brand identification, security or any other purpose requiring identification of a stone.
Method of fracturing rock or similar material

The present invention relates to a method and apparatus for fracturing rock or similar material, in a way so as to achieve removal or large pieces of such material.

This invention relates to fasteners. More particularly, the invention relates to a screw suitable for securing one object to another.
The present invention is directed to a process and apparatus for producing hydrocarbon derivatives from a hydrocarbon and an oxygen-containing gas in the presence of a suitable catalyst, and more particularly to a process for achieving increased production while reducing or eliminating the hazard of an exposition of fire in an existing or new vapour phase reactor system in which a petrochemical is produced from a hydrocarbon and oxygen.
Attachment for a tractor

An attachment for a tractor comprises a frame which supports a grader blade, the frame have connection points which can be used to connect it to the chassis of a tractor when the bucket loader has been removed.

Roof sheet

This invention relates to a profiled roof sheet having a pair of spaced apart first sides which are substantially paralleled to each other and a pair of spaced apart second sides which are also substantially paralleled to each other, the roof sheet being provide with a profile defining a plurality of ridges and valleys extending from one of the first sides to the other.
The production of calcium carbide

A process for the thermal production of calcium carbide from calcium containing starting compounds, generally calcium oxide or dehydrated calcium hydroxide, in the presence of carbonaceous reductant is provided. The process is carried out by feeding the reactants which are optionally agglomerated, directly to a molten bath of material in a plasma one heated furnace. The molten bath is maintained at a temperature from 1950 to 2150°C, and preferably from 2000 to 2100°C. Off-gases produced may be used for preheating feed after the removal of dust therefrom, containing impurities such as SiO₂ and Al₂O₃. The calcium carbide is of a grade which permits the recycling of the calcium units after acetylene production.
17 December 1991

Isis (Proprietary) Limited

Kenneth Briggs

Educational aid

17

This invention relates to a computer assisted educational aid. The educational aid makes use of live, prerecorded or real-time television broadcasts containing educational matter to present educational material to scholars by means of video monitors. The broadcast can incorporate questions on the subject matter presented or questions can be asked by a lecturer or teacher. The scholars response by keying in answers an a keypad and these answers are relayed to a data processing unit for assessment. A single video monitor is used to address a number of students.

FIG. 1
This invention relates to a cooling device more particularly it relates to a cooling device for use by individual persons in hot environments.
Element for hanging a skein of yarn or the like

The invention relates to an element for hanging a skein of filamentary material such as artificial hair has a transverse foot portion on a stem and a head at the other end of the stem. The stem of the element is wound on to the skein at an end thereof and the head is then inserted through the filaments while they are being turned inside out so that it extends therethrough and is available, by means of an orifice or hook, to the anchor for a twisting plaiting or display purposes.

Nicholas Jerome Nortje and Pavel Polasek

Filtration

This invention relates to filtration, more particularly it relates to a filter apparatus and to a method of filtration, suitable for, but not restricted to, the domestic or household clarification of water.
Method and apparatus for expanding cellular materials

This invention relates to a process and apparatus for expanding cellular material by impregnating the cellular material with a liquefied gas at an elevated pressure, removing excess liquefied gas from the cellular material and causing the impregnated gas to vaporize, thereby expanding the cellular material. More particularly, the invention relates to a method of reducing the variation of the temperature of the liquefied gas in its storage vessel throughout the impregnation process.

Measuring thickness or depth of a penetrable layer

This invention relates to measuring. It relates more specifically to measuring the thickness or depth of a penetrable layer.
The present invention is directed to a sleeve for enclosing a one-way valve formed in part by a resilient membrane or sheath for limiting the extent to which the membrane is expandable, and for assisting in providing a seal between the sheath and the body of the valve.
The present invention relates container device. More particularly, the invention relates to container devices for containing and preparing edible material, such as popcorn.

A method and apparatus for thickening fine particle suspensions
This invention relates to a method for thickening and clarifying fine particle suspensions, in which thickening and clarification of the suspensions is effected while simultaneously subjecting the suspensions to a back-pulse filtering process. The invention also relates to apparatus in the form of a filter module for use when carrying out the method.

92/0015

26 February 1992

3 March 1992

Roylance George Holmes

Water dispenser

25

This invention relates to a vandal proof water dispenser comprises a reservoir of thick steel wall and one or more outlets in the form of nipples, the outlets extending downward in the reservoir to a low position so that users may attach their own pipes or tubes, such water and thereby create siphons of withdraw of water. The reservoir may be connected to mains water and have a float valve.
Wear resistant pump

This invention relates to a pump the split casing of which is internally lined with abrasion resistant ceramic inserts and to a method of sealing the join between the mating faces of the two casing halves by filling a recess in the face of one casing half with an initially pliant abrasion resistant material which is settable and connection the two casing halves to squeeze and form the material between the recess in which it is located and the face or a recess in the face of the other casing half to seal the join between the casing halves.
Biosyn Inc.

Edwin Bernard Michaels

Dr Daniel Malamud

Method for inactivation enveloped viruses and sperm

52

There is provided methods for inhibiting the activity of encloped viruses, treatment of viral infections and method inactivation sperm. There is provided articles for use in these methods.

92/0018

20 March 1992

5 November 1992

Washington Odur Ayuko

Pharmaceutical Composition

72

This invention relates to a pharmaceutical composition comprising at least one quinone and to its use in the treatment of disease, especially cancer and virus infections.

92/0019

25 March 1992

7 January 1992

Form-scaff (Pty) Ltd.

Richard Samuel Morrison and Leandro Gonzalez-nunez

Jack support plate

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This invention relates to a jack support plate
Explosive comprising a foamed sensitizer

This invention relates to explosive compositions and, in particular to sensitized explosive composition.

Wet disc brake

This invention relates generally to brake systems, and in particular to a wet disc brake unit for an off-highway vehicle.

Shock Tubing
This invention relates to shock tubing and, more particularly, to a method of producing coloured shock tubing that facilitates measurement of core loading.
This invention relates to a process and apparatus for producing high purity nitrogen by the low temperature rectification of air. More particularly, it relates to such a process and apparatus in which light elements, such as helium, hydrogen and neon, are removed from the high purity nitrogen to produce a nitrogen product of ultra-high purity.
Crusher roll wear monitoring apparatus and method

This invention relates to the monitoring of roll wear in a crusher or grinder.
Shell Research Limited

Swan Tiong Sie

A process for the production of isoparaffins

This invention relates to a process for the production of isoparaffins having 4 to 7 carbon atoms per molecule from synthesis gas comprising the following steps:

a) Synthesis of a heavy paraffins-containing hydrocarbon mixture over a fischer-Tropsch catalyst;

b) Conversion of at least part of the heavy paraffins-containing bi-functional isomerization/hydrocracking catalyst under isomerization/hydrocracking conditions;

c) Separation of normal paraffins from at least part of the isoparaffins-containing product of step (b);

d) Recycling at least part of the normal paraffins to step (b) and withdrawing C_4 - C_7 isoparaffins as a product from the process.

Novo Invest Casino Development A G and Hans Werner Stahl

Game of skill and observation

This invention relates to a game of skill and observation which comprises a dish-shaped bowl for balls that must be thrown in and a betting board.
Disposable Sharp Instrument Container

This invention relates to a device for receiving used syringes, suture needles, scalpels and other sharp medical instruments.

Low energy fuse

This invention relates to non-electric low-energy fuses, that is to say transmission devices in the form of elongate plastics tubing housing reactive or detonable particulate substances at a core loading sufficiently low for there to be no cross-initiation of a similar tube placed alongside (or lateral direct initiation of a surrounding commercial emulsion blasting explosive) when such a device is fired.
Robert A. Mostello and Vito Klgy.

Air Separation method for supplying gaseous oxygen in accordance with a variable demand pattern

This invention relates to an air separation method for supplying gaseous oxygen in accordance with the requirements of a variable demand pattern.
This invention relates to a system for the provision of a reticulated utility such as, for example, electricity. More particularly, it relates to a development of the system described in Applicant's South African patent application 90/8939.

This invention relates to window. It relates more specifically to a window frame and to a window assembly.
Method and apparatus for treating water and/or wastewater

This invention generally relates to a method and apparatus for disinfecting water and/or wastewater with various chlorine containing compounds and/or chlorine, and for the production of chlorine containing compounds in concentrations suitable for use as an oxidizing and disinfecting agent in various industrial processes, more particularly, for treating and disinfecting water and/or wastewater.

Method and apparatus for preventing overwinding on a drilling machine

The invention provides an apparatus for preventing overwinding on a drilling machine having a running block suspended from crown wheel assembly, which includes a lever arm projecting into the path of motion of the running block. The lever arm is connected to a trip switch which is activated by upward deflection of the lever arm. This in turn activates a brake on a winding drum for raising and lowering the running block and simultaneously releases a dutch is between the drum and its associated drive.
A method and device for releasably securing a window in its closed condition

The invention provides a device for releasably securing a window in its closed condition by means of a rotatable lever arm. The device includes a cylindrical sleeve which is connectable to the window and provides a pivotal connection between the window and the lever arm. The sleeve defines a passage and the lever arm defines a complementary recesses for inserting a slidable bolt on a latch element when the passage and recess are aligned with each other, thereby immobilising the lever arm. The latch element is slidably displaceable out of the recess by manipulating a key.
There is disclosed and claimed a system of the kind disclosed in SA Patent application 90/8939 wherein each control device is adapted to receive and accept a credit for at least two reticulated utilities (utilities a to c) and wherein each control device is provided with means M to M, for individually metering the use of the at least two utilities and for reducing the credit for a respective one of the utilities according to the amount of that utility used.

92/0048
15 June 1992
7 August 1992
ICI Canada Inc.
James R. Simon
Shock tube having a reactive outer coating

This invention relates to low energy explosive shock tubing and in particular, the invention relates to a shock tubing which has at least a partial coating of a reactive material on the exterior of the shock tubing.

92/0050
26 June 1992
4 August 1992
The BOC Group, INC.
Loo T Yap

Gas injection apparatus and method

This invention relates to a gas injection apparatus and method for injecting a gas into a flowing liquid with the objective of dissolving the gas into the liquid.
20

This invention relates to a rotary braking device of the kind which allows free rotation in one direction and brakes or restrains rotation in the opposite direction.

92/0053

26 June 1992
19 August 1992
The BOC Group, Inc.
Patrick Kearns

Adsorption condensation solvent recovery system

This invention relates to the recovery of high boiling gaseous compounds.
such as vaporized, normally liquid compounds, from gaseous mixtures, and more particularly to the recovery of vaporized solvent-inert carrier gas mixtures by condensing the solvent from the gas mixture.

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**92/0055**

23 June 1992

19 August 1992

Energia E Industrias Aragonesas, S.A.

**A process for transporting and unloading crystallized sodium cyanide**

27

The present invention relates to a process for transporting and unloading crystallized sodium cyanide.

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**92/0058**

6 July 1992

16 September 1992

The BOC Group, Inc.

Eiji Hirooka, Jeremy Paul Wheatland and Shain-Jer Doong
Process for producing oxygen enriched product stream

This invention relates to a process for obtaining an oxygen enriched gas from a mixed gas containing principally oxygen and nitrogen as gas components, such as air, by means of pressure swing adsorption (PSA).

92/0059
6 July 1992
23 September 1992
Isis (Pty) Ltd.
Kenneth Briggs

Accessory for an educational aid

This invention relates to an accessory for an educational aid which utilises an interactive computer based training system. The accessory consists of a signal reception and splitting unit which receives real time or prerecorded signals containing an audiovisual component and another component relating to questions asked by the presenter of the
educational programme conveyed by the signals. The signal reception and splitting unit separates the signal into its two components, parses the audiovisual component to visual display units located in a classroom and parses the other component to a data processing unit. The data processing unit uses information contained in the signal to evaluate the answers provided by students in response to questions posed on the audiovisual signal.

92/0060
6 July 1992
20 August 1992
Newmont Mining Corporation and Newmont Gold Co.
James A Breirley and David L Hill

Biooxidation Process for recovery of metal values from sulfur-containing ore materials.

This invention relates to recovery of precious metals, e.g. gold and silver, from ores having a sulfidic sulfur and/or demental sulfur content, such as sulfide-containing teachable ores of the pyritic, arsenopyritic, or arsenian pyrite type, refractory carbonaceous sulfide ores which have been pretreated, ores which are being post-treated, tailings, previously considered waste grade ores (which still have sufficiently high gold and silver content) and overburden ores having fairly low gold content and which may be considered waste ores.
The present invention relates to an adsorbent vessel containing an adsorbent to from an adsorbent bed for use in a pressure swing adsorption process wherein a cold spot forms in the adsorbent bed and/or flow to the adsorbent bed is not fully developed. More particularly, the invention relates to such an adsorbent vessel in which a convective heat exchanger is located with the adsorbent vessel to raise the temperature of cold spot and/or to fully develop flow to the adsorbent bed.
Screen Deck

This invention relates to a screen deck apparatus and to a method of screening particulate materials.

Centrifugal Dewatering

This invention relates to a dewatering centrifuge and to a centrifugal dewatering method, and is particularly concerned in one application with the dewatering of slurries.
This invention relates to a separation method and apparatus. In one application of the invention it may be used to separate diamond particles from associated barren particles in a diamondiferous gravel.
ICI Canada Inc.
Clare T Aitken, Melvin A McNicol and Robert Lebrun

Vegetable Oil Emulsion Explosive

This invention is related to emulsion explosives and, in particular, to pumpable emulsion explosives with increased resistance to shear induced crystallization of the oxidizer salt.

92/0071
18 August 1992
9 November 1992
ICI Canada, Inc.
Arun Kumar Chattopadhyay

Emulsion Explosive

This invention relates to emulsion explosives containing a mixed surfactant system.

92/0075
27 August 1992
Hydroconversion Catalyst

This invention relates to a catalyst of use in hydroconversion processes comprises platinum supported on a silica-alumina carrier, which carrier has been prepared from a amorphous silica-alumina having a pore volume of at least 1.0 ml/g, the carrier having been impregnated with the platinum by a process comprising contacting the carrier with a platinum salt in the presence of a liquid under acidic conditions. A process for the preparation of the aforementioned catalyst comprises preparing a carrier from an amorphous silica-alumina having a pore volume of at least 1.0 ml/g and impregnating the carrier so-formed with platinum by contacting the carrier with a platinum salt in the presence of a liquid under acidic conditions. The Catalyst is of general use in hydroconversion processes, but exhibits a high level of activity and selectivity in the preparation of middle distillates by the hydroconversion of hydrocarbons prepared by the Fischer-Tropsch process.

Process for the preparation of middle distillates

Middle distillates are prepared form a hydrocarbon feed obtained by a Fischer-Tropsch synthesis and comprising a fraction having a boiling point above the boiling point range of the middle distillates, by a process which comprises contacting the said hydrocarbon feed at elevated temperature and pressure in the presence of hydrogen with a catalyst comprising platinum supported on a silica-alumina carrier prepared from an amorphous silica-alumina starting material having a pore volume of at least 1.0 ml/g.
2 October 1992

Shell Research Limited

Carolus Maria van Ballegoy, Theofiel Meuris, Martinus Nanne and Jean-Pierre Gilson.

Process for the preparation of hydrocarbon fuels.

Hydrocarbon fuels are prepared from a hydrocarbon feed obtained by a Fischer-Tropsch synthesis and comprising a fraction having a boiling point above the boiling point range of the hydrocarbon fuels, by a process which comprises contacting the said hydrocarbon feed at an elevated temperature and pressure in the presence of hydrogen with a catalyst comprising a silica-alumina carrier impregnated with platinum by a process comprising contacting the carrier with a platinum salt in the presence of a liquid under acidic conditions.

92/0082

7 September 1992

23 September 1992

Envirotech (Pty) Ltd.

Peter Hume Glendinning

Filter press and method of operation

This invention relates to a filter press and to a method of operating a filter press.
This invention relates to a substance or composition for use in a method of treatment of human and animal subjects to enhance the methylation capacity of such subjects, to enhance or stimulate the immune response system of such subjects, to combat viral infections in such subjects, and to achieve various other beneficial results.

A dialysis apparatus includes a reverse osmosis unit, an ion exchange unit for removing anions, a receptacle for receiving deionised water and sugar and electrolyte concentrates in predetermined proportions, a peristaltic pump for delivering predetermined measured doses to an outlet connectible to a peritoneal cavity.
This invention relates to a roof. It relates also to a method of forming a roof.

This invention relates to building by means of slip forming shuttering. It relates more specifically to a method of the invention.
This invention relates to the slaughter of animals. More particularly it relates to a method of restraining an animal to facilitate the slaughter thereof. It also relates to restraining apparatus for use particularly, but not necessarily exclusively, in the kosher slaughtering of animals and to an animal slaughtering installation. It further relates to a method of modifying a slaughtering installation.
92/0101
2 October 1992
19 November 1992
Kenneth David Bogie and Rodney Stephen Elk

**Water sanitisation**

This invention relates to a method of sanitising water by the in situ oxidation of halogen ions and to the composition for use in the method. The halogen ions may be bromine ions and the oxidation may be achieved with hydrogen peroxide or monopersulphate.

92/0105
27 October 1992
23 November 1992
Dr. Karl Thomae GmbH

Roland Maier, Eberhard Woitun, Bernd Wetzel, Wolfgang Reuter, Hans Goeth and Uwe Lechner

**Improvements relating to erythromycin derivatives**

This invention relates to new erythromycin derivatives, to processes for their preparation and to pharmaceutical compositions containing them.