



GOVERNMENT GAZETTE

OF THE

REPUBLIC OF NAMIBIA

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No. 588

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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

PATENT, DESIGNS AND TRADE MARKS OFFICE

OFFICIAL NOTICES OF PROCEEDINGS UNDER THE
PATENTS AND DESIGNS ACT, 1916

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

NO.	APPLICANT	DATE OF APPLI- CATION	REGISTRA- TION	CLASS	DISIGN APPLIED TO
90/0007	METAL BOX SOUTH AFRICA LIMITED	90/08/28	91/06/11	3	CONTAINER
90/0008	METAL BOX SOUTH AFRICA LIMITED	90/08/28	91/06/11	3	CONTAINER
90/0009	METAL BOX SOUTH AFRICA LIMITED	90/08/28	91/06/11	3	CONTAINER
90/0010	METAL BOX SOUTH AFRICA LIMITED	90/08/28	91/06/11	3	CONTAINER
90/0011	METAL BOX SOUTH AFRICA LIMITED	90/08/28	91/06/11	3	CONTAINER
90/0027	METAL BOX SOUTH AFRICA LIMITED	90/11/14	91/06/05	3	BOTTLE CLOSURE
90/0028	METAL BOX SOUTH AFRICA LIMITED	90/11/14	91/06/05	3	BOTTLE CLOSURE
90/0029	S P NAUDE	90/12/07	91/01/17	25	BUILDING BLOCK
90/0030	S P NAUDE	90/12/07	91/01/17	25	BUILDING BLOCK
91/0001	ESKOM	91/05/08	91/05/08	1	BUILDING BLOCK

91/0002	J A VAN DER WESTHUIZEN	91/06/18	91/06/18	16	CARRYING HANDLES OF PLASTIC MATERIAL
91/0003	G P BENNETT	91/06/19	91/06/19	4	BUILDING BLOCK
91/0004	DARBEL (PTY) LTD	91/07/23	91/07/23	16	LAWNMOVER
91/0005	DARBEL (PTY) LTD	91/07/23	91/07/23	3	LAWNMOVER MOTOR HOOD
91/0006	DARBEL (PTY) LTD	91/07/23	91/07/23	3	LAWNMOVER MOTOR HOOD
91/0007	DARBEL (PTY)	91/07/23	91/07/23	3	LAWNMOVER
91/0008	NOVO-INVEST CASINO DEVELOPMENT AKTIENGESELLSCHAFT	91/07/29	91/07/29	21	DECORATIVE HEADPIECE FOR ROULETTE CARE
91/0009	KERSAF LIQUOR HOLDINGS LIMITED	91/09/18	91/09/19	4	BOTTLE
91/0010	KERSAF LIQUOR HOLDINGS LIMITED	91/09/18	91/09/18	4	BOTTLE
91/0011	KERSAF LIQUOR HOLDINGS LIMITED	91/09/18	91/09/18	4	BOTTLE
91/0012	SUN INTERNATIONAL LTD	91/10/08	91/10/08	3	BOTTLE
91/0013	SUN INTERNATIONAL LTD	91/10/08	91/10/08	3	CLOSURE
91/0014	SUN INTERNATIONAL LTD	91/10/08	91/10/09	3	BOTTLE CLOSURE

DESIGNS RENEWED

NO.	CLASS	RENEWALDATE	NAME OF PROPRIETOR
FOR THE PERIOD 91/01/01 TO 92/06/05			
86/0001	3	91/05/06	FIRESTONE S.A. (PTY) LTD.
82/0002	4	91/09/24	LINGNER & FISHER GMBH
81/0001	PJ/PB/11763/NC	91/10/26	SMITH KLINE & FRENCH LABORA- TORIES LIMITED
87/0012	3	92/04/07	AECI LIMITED
87/0011	3	92/04/07	AECI LIMITED
87/0010	3	92/04/07	AECI LIMITED
87/0015	1	92/02/05	AECI LIMITED
82/0001	16	92/01/25	SONY KABISHIKI KAISHA
87/0003	1	92/01/18	IMPERIAL CHEMICAL INDUSTRIES PLC
87/0002	1	92/03/18	IMPERIAL CHEMICAL INDUSTRIES PLC
87/0007	1	92/03/18	IMPERIAL CHEMICAL INDUSTRIES PLC
87/0006	1	92/03/18	IMPERIAL CHEMICAL INDUSTRIES PLC
87/0006	1	92/03/18	IMPERIAL CHEMICAL INDUSTRIES PLC
87/0005	1	92/03/18	IMPERIAL CHEMICAL INDUSTRIES PLC
87/0001	5	92/03/09	ELOPAK LTD

87/0018	3	92/08/04	IMPERIAL CHEMICAL INDUSTRIES PLC
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

NO.	APPLICANT	DATE OF APPLICATION	REGISTRATION	CLASS	DESIGN APPLIED TO
92/0001	PENTA HOLDINGS (PTY) LTD	92/01/15	92/01/17	3	Container
92/0002	PENTA HOLDINGS (PTY) LTD	92/01/15	92/01/17	3	Building Facade
92/0003	PENTA HOLDINGS (PTY) LTD	92/01/15	92/01/17	1	Sign Pylon
92/0004	PENTA HOLDINGS (PTY) LTD	92/01/15	92/01/17	3	Building Facade
92/0005	PENTA HOLDINGS (PTY) LTD	92/01/15	92/01/17	1	Sign Pylon
92/0006	PENTA HOLDINGS (PTY) LTD	92/01/15	92/01/17	1	Sign Pylon
92/0007	PENTA HOLDINGS (PTY) LTD	92/01/15	92/01/17	1	Sign Pylon
92/0008	PENTA HOLDINGS (PTY) LTD	92/01/15	92/01/17	3	Container
92/0009	PENTA HOLDINGS (PTY) LTD	92/01/15	92/01/17	4	Aplinth for a Fuel pump Island
92/0010	PENTA HOLDINGS (PTY) LTD	92/01/15	92/01/17	3	Ligtning and display unit
92/0011	PENTA HOLDINGS (PTY) LTD	92/01/15	92/01/17	3	Ligtning and display unit
92/0012	M J W DU PREEZ	92/01/20	92/01/20	3	Haversack
92/0013	CARLTON PAPER AFRICA (PTY) LTD	92/03/10	92/03/10	5	Street Material
92/0014	MODEK (PTY) LTD	92/05/13	92/05/15	3	Luggage trailer
92/0015	N H SMIT	92/05/19	92/05/27	25	Building brick

92/0016	N H SMIT	92/05/19	92/05/27	25	Building brick
92/0017	N H SMIT	92/05/19	92/05/27	25	Prefabricated door frames
92/0018	N H SMIT	92/05/19	92/05/27	26	Building brick
92/0019	TOTAL	92/06/29	92/06/30	3	Bottle or the like
92/0020	TOTAL	92/06/26	92/06/30	3	Bottle or the like
92/0021	TOTAL	92/07/06	92/07/20	3	Bottle or the like
92/0022	FRANCOIS STEFANUS JOUBERT AND JOHN NIEUWENHUYS	92/07/06	92/07/20	4	Building element
92/0023	NAMPAK PRODUCTS LIMITED	92/07/31	92/08/05	5	Collapsible container assembly
92/0024	NAMPAK PRODUCTS LIMITED	92/07/31	92/08/05	3	Connector device
92/0025	NAMPAK PRODUCTS LIMITED	92/07/31	92/08/05	5	Collapsible container assembly
92/0026	CHAMPAGNE MOET & CHANDON	92/08/05	92/08/07	4	A Bottle
92/0027	PLEASURE FOODS LIMITED	92/09/24	92/09/29	21	A Figurine
92/0028	OSCAR TJAHUHA NORICH	92/10/22	92/11/13	25	A Building block
92/0029	S A CANOPY CENTRE (PTY) LTD.	92/10/16	92/11/13	12	Motor vehicle canopy

PATENTS OFFICE

APPLICATIONS FOR PATENT 1991

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)

91/0001*	-	PETRUS ALWYN KRUGER - Winding arrangements
91/0002	-	THE BOC GROUP PLC - Piotr Jan Sadkowski and Michael Ernest Garrett - Gas separation apparatus
91/0003	-	DR BASIL FRANK AND ANDRE MARIUS GOUWS - Pharmaceutical preparation
91/0004*	-	AFRICAN OXYGEN LIMITED - Michael Ernest Garrett - Apparatus and processes for the storage and/or ripening of produce
91/0005	-	AFRICAN OXYGEN LIMITED - Anthony Roger Spencer Audsley, Neville George and Ambur Balakrishnan Mohan Raj - Humane slaughter of poultry
91/0006	-	AFRICAN OXYGEN LIMITED - Anthony Roger Spencer Audsley, Neville George Gregory and Ambur Balakrishnan Mohan Raj - Anoxic poultry stunning
91/0007	-	NICOLAAS GERHARDUS VAN DEN BERG - Walling

- 91/0008* - PHILIP ANTHONY CURTIS - Chemical treatment
- 91/0009 - BOART INTERNATIONAL LIMITED - David Stanley Williams - Button sharpening
- 91/0010 - DEVENDRA KESHAV KALA - Apparatus for use in the anaerobic treatment of organic material
- 91/0011 - ESKOM - Faljo Arno Halderman, Allan Christopher Holmes, Charlie Nel William Shacks, Kenneth Gilbert Tanner, Peter Charles Grantham, Steen Robert Lutz - Method and apparatus for securing rope or cable to an overhead structure
- 91/0012 - AECI LIMITED - Peter Allan, Michael David Newton, John William Hemmings, Alyn Glyn-Jones and Frank Michael Gottschalk - Coal treatment process
- 91/0013 - AFRICAN OXYGEN LIMITED - Stephan Clements, Brian King - Manufacture of glass articles
- 91/0014 - ROTAQUE (PROPRIETARY) LIMITED - Robert Montaque Joubert - Skip
- 91/0015 - CSIR - Nicolaas van der Dussen and Cornelis Petrus Geyer - Recovery of aluminium, potassium and magnesium values from ore bodies
- 91/0016 - IMPERIAL CHEMICAL INDUSTRIES PLC - Manish Sarkar - Polymers
- 91/0017 - IMPERIAL CHEMICAL INDUSTRIES PLC - Manish Sarkar - Polymers
- 91/0018 - MOULDED HOMES INVESTMENTS CLOSE CORPORATION - Jöger Ebsenhaezer Groenewald and Patrick Moreland - Construction method and shuttering panel for use in such method
- 91/0019 - THE BOC GROUP, INC. - Ravi Jain - Purifying fluids by adsorption
- 91/0020 - THE BOC GROUP, INC. - Ron C Lee and Mark J Kirschner - Cryogen Delivery apparatus
- 91/0021 - IMPERIAL CHEMICAL INDUSTRIES PLC - Michael William Beck and John Flanagan - Accessory
- 91/0022 - IMPERIAL CHEMICAL INDUSTRIES PLC - Alan Hamilton Noble and David Proven Sutton - Low energy fuse
- 91/0023 - AECI LIMITED - Brandon James Loots and Fred von Gottberg - Production of calcium chloride
- 91/0024 - CSIR - Cladstone Davies and Susanna Visser - Binder

- 91/0025 - **LITEROCK INTERNATIONAL (PROPRIETARY) LIMITED** - Gerald Alan Derby-Lewis - Aggregate for use in making structural elements
- 91/0026 - **THE BOC GROUP, INC.** - Ravi Jain and Alberto Lacava - Pre-Purification of air for separation
- 91/0027 - **ALZA CORPORATION** - Jerry Dawn Wright, Jerry D Childers, Brian L Barclay, Patrick S-L Wong and Lina E Atkinson - Osmotic, oral dosage form for fertility control
- 91/0028 - **THE BOC GROUP, INC.** - Eiji Hirooka - Process for producing oxygen enriched product stream
- 91/0029 - **AUROS CC** - Maria Rosina Susanna Botha - Educational aid
- 91/0030 - **SUSANNA ELIZABETH MARIA VAN ROOIJEN AND WILLEM ABRAHAM VAN ROOIJEN** - Fertilizers
- 91/0031 - **HERMANN KRUSE** - Apparatus for handling packaged and loose yet dimensionally stable material that is to be transported
- 91/0032 - **MINING SERVICES INTERNATIONAL CORPORATION** - Charles Michael Lourds - Blasting Composition
- 91/0033 - **THE BOC GROUP, INC.** - Ravi Jain - Pre-Purification of air separation
- 91/0034 - **ALBERT ARTHUR PHILLIPS** - Protective filling valve
- 91/0035 - **ATLAS POWDER COMPANY** - Merrit Jacob - Modular Blasting System
- 91/0036 - **S.A. ACEC-UNION MINIERE N.V.** - Guy G.L.B. Haesebrock and Achille J M de Schepper - Metal extraction by ion exchange
- 91/0037 - **AFRICAN OXYGEN LIMITED** - Andrea Buttle - Air separation
- 91/0038 - **ICI CANADA INC** - Anh Duy Nguyen - Sensitized Explosive
- 91/0039 - **STEINER SERVICES (PROPRIETARY) LIMITED** - Michael Anthony Buckley - Outlet assembly for a container containing a fluid
- 91/0040 - **KWIKOT LIMITED** - Stuart Paul Thompson - Water heater shell and water heater
- 91/0041 - **BOEHRINGER INGELHEIM VETMEDICA GMBH** - Dr Wolfgang Resemann, Adolf Dürr, Günther Engelhardt and John Francis Quirke - Separation of enantiomers of cimaterol (-) - cimaterol and the use thereof

- 91/0042 - **AECI LIMITED** - Richard Charles Michael Houston and Julian Taylor - Explosive
- 91/0043 - **DE BEERS INDUSTRIAL DIAMOND DIVISION (PROPRIETARY) LIMITED** - Edwin Harm Roos, Colin Hugh Maybury and Edmund Patrick Hyland - Rake sorter
- 91/0044* - **HILTON ARTHUR HAMANN AND PHILLIP IVAN MORGAN** - Gunstock arrangement
- 91/0045 - **AFRICAN CABLES LIMITED** - Giorgio Pauselli - Thermal insulants
- 91/0046 - **NIKOLAAS VAN DER WALT** - Low cost building structure
- 91/0047 - **THE BOC GROUP, PLC** - Michael Ernest Garrett and John Robert Coates - Process Vessels
- 91/0048 - **GILBERT & SON CC** - Bernard Gilbert and Jacobus Paulus Prinsloo - Mining Equipment
- 91/0049 - **ADRYX OIL GROUP N.V.** - Daniel Gurtner - Container for the transport of a substance in solid condition
- 91/0050 - **ATLAS POWDER COMPANY** - Johan Joseph Mullay and Jane Michele Farkas - Coating for solid additives
- 91/0051 - **ATLAS POWDER COMPANY** - Catherine Vonommeren - Prill for emulsion explosives
- 91/0052 - **CIBA-GEIGY AG AND INSTITUTE OF MICROBIOLOGY AND EPIDEMIOLOGY, ACADEMY OF MILITARY MEDICAL SCIENCES** - Jigin Zhou, Dianxi Nina, Shufen Wong, Defen Ding, Guofu Li, Chengai Shan and Guangyli Liu - Antimalarial compositions
- 91/0053 - **SHELL RESEARCH LIMITED** - Donald Reinalda and Anke Derking - High surface area zirconia
- 91/0054 - **BARRY MUSGRAVE MORLEY PAYNE AND JOHN LAWRENCE SULLIVAN** - Valve closing actuator
- 91/0055 - **THE BOC GROUP, INC.** - Norberto O Lemcoff and Robert C Gmelin - Pressure swing adsorption method for separation gaseous mixtures
- 91/0056 - **IMPERIAL CHEMICAL INDUSTRIES PLC** - Kenneth Morgan Jones, Graham Paton Kerr and Neil Tindale - Polyester Polymer Products
- 91/0057 - **CXA LTD./CXA LTEE** - Delay initiator for blasting
- 91/0058 - **SHELL RESEARCH LIMITED** - Jacobus Eilers - Process for the preparation of hydrocarbons

- 91/0059 - **ICI CANADA INC** - Paul Dubelsteln, John Richard du Manoir and Christopher John Kanthers - Two-stage Peroxide bleaching process
- 91/0060 - **BATEMAN PROJECT HOLDINGS LIMITED** - Josef Kivvovich Rabinovitch and Dudley Brian Smith - Conveyor systems
- 91/0061 - **AFRICAN OXYGEN LIMITED** - John Terrence Lavin - Boiling liquefied gas
- 91/0062 - **ICI CANADA INC.** - Anh Dry Nguyen - Chemically gassed emulsion explosive
- 91/0063 - **THE BOC GROUP, INC.** - Ramachandran Krishnamurthy and Mark J Andreovich - Carbon dioxide production from combustion exhaust gases with nitrogen and argon by-product recovery
- 91/0064* - **ACCORD ELECTRONICS (PROPRIETARY) LIMITED** - Kuan-yu Lu - Article of Apparel
- 91/0065 - **THE BOC GROUP INC.** Arthur I Shirley and Alberto I La Caia - Pressurization PSA systems for the production of high purity product gas
- 91/0066* - **ROBERT SCHAAFSMA** - Flexible attachment member
- 91/0067* - **ROBERT SCHAAFSMA** - Lobster trap
- 91/0068 - **ESKOM** - Petrus Phillippus Veldman, Marius Botha and George Archibald Clerk Janse van Rensburg - A drive chain connector
- 91/0069 - **IMPERIAL CHEMICAL INDUSTRIES PLC** - John Colin Middleton and Michael Cooke - Agitators
- 91/0070 - **AFRICAN OXYGEN LIMITED** - John Terence Lavin - Air separation
- 91/0071 - **DE BEERS INDUSTRIAL DIAMOND DIVISION (PROPRIETARY) LIMITED** - Charles Maurice Levitt, Matthias Kofler and Krzysztof Zygmunt Wieckiewicz - Sorting method and apparatus
- 91/0072 - **SENTRACHEM LIMITED** - Anthony Patric Reynolds, Mark Burdon Cocksedge and Peter John Leopold - Inorganic flocculant manufacture
- 91/0073 - **DE BEERS INDUSTRIAL DIAMOND DIVISION (PROPRIETARY) LIMITED** - Johannes Hermanus Potgieter, David James Hammond and John Oliver Speedy - Fibre optic interrogation system
- 91/0074 - **INTERNATIONAL TECHIQUE INDUSTRIE (PROPRIETARY) LIMITED** - Gerd Sohrada and Jan Hinrich Stechmann - A method of producing cement bonded wood fibre moulded bodies

- 91/0075 - **THE BOC GROUP, PLC** - Michael Ernest Garrett and Piotr Jan Sadkowski - Gas treatment or separation apparatus
- 91/0076 - **CHEMICAL SERVICES LIMITED** - Reginald Arthur Hunn and Edward Clarke - Sealant composition
- 91/0077 - **WATER RESEARCH COMMISSION** - Peter Dale Rose - Treatment of saline effluent
- 91/0078* - **WATER RESEARCH COMMISSION** - Peter Dale Rose and Ashton Keith Cowan - A growth and separation process for algae and useful products obtained therefrom
- 91/0079* - **WATER RESEARCH COMMISSION** - Peter Dale Rose and Ashton Keith Cowan - A process for the production of useful products from effluents
- 91/0080 - **THE BOC GROUP, INC.** - Ramachandran Krishnamurthy, Satish S Tamhankar and Walter H Whitlock - Process for Helium purification
- 91/0081 - **EDWARD GERARD HYNES AND JULIAN BRYAN HUTCHINS** - Wheels for vehicle
- 91/0082 - **ANGLO AMERICAN CORPORATION OF SOUTH AFRICA LIMITED** - Bernardus Johannes Bout, Peter Charles Vickers, Lourens Badenhorst Odendaal - Method of and apparatus for monitoring a winding rope
- 91/0083 - **IMPERIAL CHEMICAL INDUSTRIES, PLC** - Michael William Beck - Low energy fuse
- 91/0084 - **IMPERIAL CHEMICAL INDUSTRIES, PLC** - Michael William Beck - Low energy fuse
- 91/0085 - **IMPERIAL CHEMICAL INDUSTRIES, PLC** - Michael William Beck - Low energy fuse
- 91/0086 - **AECI LIMITED** - Andre van der Walt - A container
- 91/0087 - **CSIR** - Christoffel Johannes Kok - Light meter and detector therefor
- 91/0088 - **THE BOC GROUP, INC.** - Robert P D'Oranzio and John F Rakszawski - Removal of cyanide aqueous streams
- 91/0089 - **THEODOR MARTIN STIELAU AND HARALD HEINZ STIELAU** - Method of making a particulate metal
- 91/0090 - **AECI LIMITED** - Rhode Schindler Truter - Compaction apparatus
- 91/0091 - **FRASER FYFE (PROPRIETARY) LIMITED** - Theo Duff, Kevin Devine and Anthony Dutton - Lining for a surface

- 91/0092 - AFRICAN OXYGEN LIMITED - Stephen James Date - Treatment of food and other products
- 91/0093* - BENJAMIN VAN NIEKERK - Exercising apparatus
- 91/0094 - GARY BOTHA AND DENNIS BERTRAM NESBITT - Briquettes
- 91/0095 - THE BOC GROUP, INC. - Ravi Jain - PSA employing high purity purging
- 91/0096 - THEUNIS JUDEEL - Wind pump arrangement
- 91/0097* - PHILIP FREDERICK LOCK STRAUSS - Pumping arrangement
- 91/0098 - KLAUS-PETER KLEIN, RUEDIGER ADOLF GERD DIEKMANN AND HARTMUT BOEHM - Solar Equipment
- 91/0099 - AFRICAN OXYGEN LIMITED - John Terence Lavin and Thomas Rathbone - Separation of gas mixtures
- 91/0100 - ROTHMANS INTERNATIONAL TOBACCO LIMITED - Peter John Molloy - Smoking article
- 91/0101* - GERRIT RUDOLPH CARLOS DI SOMMA - Plumbing devices
- 91/0102 - INTEROX CHEMICALS LIMITED - John Raoul Grendon Lane, Colin Frederick McDonogh and Stephen Edward Woods - Peroxoacid manufacture
- 91/0103 - DARBEL (PROPRIETARY) LIMITED - Bernard George Smith and Leonard Arthur Burford - Lawnmower
- 91/0104 - KLAUS DIETER SCHMIDT - Quick connect, knock-down door frame
- 91/0105 - HARRY WINSTON, S.A. - Harry Winston and Necip Alev - Methods for producing indicia on diamonds
- 91/0106 - HOWARD D BRUCE - A method of fracturing rock or similar material
- 91/0107 - CSIR - Nicolaas Hendrik Arnold - Roof Screw
- 91/0108 - AECI LIMITED - Lawrence Justin Pienaar Wilson, Ian James Wake and Alan James Harris - Method of blasting
- 91/0109 - THE BOC GROUP, INC. - Ramakrishnan Ramachandran, Arthur I Shirley and Lien-Lung Sheu - Production of hydrocarbon derivatives
- 91/0110 - RICHARD JOHN EDWARD BARTLE - Board game
- 91/0111 - LEO CARLO GIUSEPPE MATTIODA - Attachment for a tractor

- 91/0112 - THE BOC GROUP, PLC - Michael Ernest Garrett - Pressure swing absorption plants
- 91/0113 - CSIR - Nicolaas Hendrik Arnold - Roof sheet
- 91/0114* - MARTHINUS JOHANNES WESSEL DU PREEZ - Haversack
- 91/0115 - SPESCOM (PROPRIETARY) LIMITED - Jonathan Sinclair Youngleson - A housing
- 91/0116* - EXIMEX COMPONENTS (PROPRIETARY) LIMITED - Sarel Jacobus Burger Oberholzer - Clutch plate
- 91/0117* - ALLEWYN JOHANNES STRAUSS - James Gordon Balding - Dual valve toilet flushing apparatus
- 91/0118 - SHELL RESEARCH LIMITED - David Armstrong Huete, Lee Knox Brasted and George Rodenbusch - Method and system for conducting offshore well operations
- 91/0119 - YAKOV SAFIR - A method of making semiconductor components as well as a solar cell made therefrom
- 91/0120 - NORVIC S.A. - Oscar William Kaalstadt - Disc drill bit
- 91/0121 - HOMEMAKERS GROUP LIMITED - Gary Wasilewsky - Clothes hanger
- 91/0122 - DANTEX EXPLOSIVES (PROPRIETARY) LIMITED - Marie Valentine Michele Hall - Explosive Composition
- 91/0123* - DR EDMUND PETRUS JACOBUS, SIEGFRIED EMIL DOMROSE AND DR RONALD DOUGLAS SANDERSON - Flow arrangement
- 91/0124 - WASHINGTON ODUR AYUKO - Use of trinitrobenzenes or carminic acid in the treatment of cancer of viral diseases
- 91/0125* - GERHARD HEINRICH KUHANGEL - Mattress cover
- 91/0126 - PHILIP ANTHONY CURTIS - Method of chemically treating treading surfaces
- 91/0127* - PIETER GERHARD JACOBUS MEIRING AND WATER RESEARCH COMMISSION - Treatment of wastewater
- 91/0128 - MINTEK - Lourens Jacobus Erasmus and Albert Francois Simon Schoukens - The production of calcium carbide
- 91/0129 - ISIS (PROPRIETARY) LIMITED - Kenneth Briggs - Educational aid
- 91/0130 - ANGLO AMERICAN CORPORATION OF SOUTH AFRICA LIMITED - Mineral processing screen separator

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- | | | | | |
|----------|---|---------------------------------------|---|--------------------------|
| 91/0131* | - | PROVECTUS (PROPRIETARY) LIMITED | - | Sodium chloride products |
| 91/0132* | - | PROVECTUS (PROPRIETARY) LIMITED | - | Traffic robot |
| 91/0133* | - | P ANDRAG & SONS (PROPRIETARY) LIMITED | - | Pipe couplings |

PATENT OFFICE

APPLICATIONS FOR 1992

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

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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).

92/0001	-	CSIR - Jacobus Martinus Gouws and Nicolaas Claasen - Draagbare verkoelingsapparaat.
92/0002	-	IRENE ELIZABETH PALIN - Element for hanging a skein of yarn or the like
92/0003	-	NICHOLDS JEROME NORTJE AND PAVEL POLASEK - Filtration
92/0004*	-	ANDRIES EBENHAESER STRYDOM - Power stage network
92/0005	-	THE BOC GROUP, INC. - Ira Steinberg - Method and apparatus for expanding cellular materials
92/0006*	-	NAMPAK PRODUCTS LIMITED - Lourens Dirk Cornelius van Dyk - Paper towel dispenser
92/0007*	-	NAMPAK PRODUCTS LIMITED - Lourens Dirk Cornelius van Dyk - Locking mechanism
92/0008	-	ATOMIC ENERGY CORPORATION OF SOUTH AFRICA LIMITED - Gert Wentzel Jacobus van der Berg and Dirk Johannes van der Bank - Measuring thickness or depth of a penetrable layer
92/0009	-	RESEAL INTERNATIONAL LIMITED PARTNERSHIP - Greg Pardes - Enclosing sleeve for oneway valve

- 92/0010* - **ROBERT WILHELM HAILMER AND FREDERICH HAROLD ROGERSON**
- Hair brush device
- 92/0011 - **LOUIS FRIEDERICH HARRIS** - Container device
- 92/0012 - **SALA INTERNATIONAL A B** - Jan Odd Bogen and Marie-Louse Olstedt-Wallin - A method of apparatus for thickening fine particle suspensions
- 92/0013* - **GERSON ESTABLISHMENT** - Martin Phillip Smith and Robin Wyncliffe Smith
- 92/0014* - **PHILIP FREDERICK LOCK STRAUSS** - A liquid displacement pump
- 92/0015 - **ROYLANCE GEORGE HOLMES** - Water Dispenser
- 92/0016 - **AECI LIMITED** - Wear resistant pump
- 92/0017 - **BIOSYN INC.** - Edwin Bernard Michaels and Dr Daniel Maylamud - Method for inactivating enveloped viruses and sperm
- 92/0018 - **WASHINGTON ODUR AYUKO** - Pharmaceutical composition
- 92/0019 - **FORM-SCAFF (PROPRIETARY) LIMITED** - Richard Samuel Morrison and Leandro Gonzalez-Nunez - Jack Support Plate
- 92/0020* - **THE BOC GROUP, PLC** - Michael Ernest Garrett - Apparatus for the separation of gaseous mixture
- 92/0021 - **ICI CANADA INC.** - Fortunato Villamagna, Ming Chung Lee and Arun Kumor Chattopadhyay - Explosive comprising a foamed sensitizer
- 92/0022* - **CANCELLED**
- 92/0023 - **CLARK EQUIPMENT COMPANY** - Gregory T Dewald and Charles D Schaber - Wet Disc Brake
- 92/0024 - **ICI CANADA INC.** - Robert C Greenhorn and Jaques Lafond - Shock Tubing
- 92/0025 - **THEODORE DANIEL SWEMMER** - Roof Bolts
- 92/0026* - **AFRICAN OXYGEN LIMITED** - Giles William Parker and Daniël Martin Verster - A method and means for providing refrigeration
- 92/0027 - **THE BOC GROUP, INC.** - Sidney S Stern - Process and apparatus for producing nitrogen of ultral-high purity
- 92/0028 - **THEODORE DANIEL SWEMMER** - Rockbolt anchoring head

- 92/0029 - **DE BEERS INDUSTRIAL DIVISION (PROPRIETARY) LIMITED**
- Peter James Sergeant and Domingos Manuel Coelho
Valbom - Crusher roll wear monitoring apparatus
and method
- 92/0030 - **SHELL RESEARCH LIMITED** - Swan Tiong Sie - A
process for the production of isoparaffins
- 92/0031 - **NOVA INVEST CASINO DEVELOPMENT A G AND HANS WERNER
STAHL** - Game of skill and observation
- 92/0032 - **FREDERICK J SAWAYA** - Disposable sharp instrument
container
- 92/0033 - **IMPERIAL CHEMICAL INDUSTRIES PLC.** - Vernon Parker
- Low energy fuse
- 92/0034* - **ICI CANADA, INC.** - Aron Chattopadhyay - Ammonium
nitrate density modification
- 92/0035 - **THE BOC GROUP, INC.**- Robert A Mostello and Vito
Kligys - Air separation method for supplying
gaseous oxygen in accordance with a variable demand
pattern
- 92/0036* - **IMPERIAL CHEMICAL INDUSTRIES PLC** - Stephen James
Thorne and Alan James Backhouse - Polyisocyanate
mixture
- 92/0037 - **PLESSEY TELLUMAT SOUTH AFRICA LIMITED** - Constantin
Michelakis and Gavinf Roy Howard - System for the
provision of a reticulated utility
- 92/0038* - **NICOLAAS HENNING SMIT** - Window Pane System
- 92/0039* - **AFRICAN OXYGEN LIMITED** - David William Blake -
Apparatus for chilling
- 92/0040 - **BETRAM (PROPRIETARY) LIMITED** - Lukas Pieter Fourie
- Windows
- 92/0041* - **AECI LIMITED** - Kord Jürgen Rothkegel, John Andrew
Wilson, Michael Andrew Rossouw and Jacobus
Bernardus de Waal - A portable foam dispenser
- 92/0042 - **JAN HARMSE CONRADIE** - Pump
- 92/0043* - **ERNEST R BODNAR** - Sheet metal structural member
construction panel and method of construction
- 92/0044 - **JAMES ARTHUR MASON** - Method and apparatus for
treating water and/or wastewater
- 92/0045 - **GDM DRILLING LIMITED** - Thomas Winston Thomas -
Method and apparatus for preventing overwinding on a
drilling machine

- 92/0046 - **ROWLAND HUTTLEY PEART** - A method and device for releasably securing a window in its closed condition
- 92/0047 - **PLESSEY TELLUMAT SOUTH AFRICA LIMITED** - Adriaan Adam van Niekerk - System for the provision of at least two reticulated utilities
- 92/0048 - **ICI CANADA INC.** - James R. Simon - Shock tube having a reactive outer coating
- 92/0049* - **BASIL READ (PROPRIETARY) LIMITED** - Hector Brian Salzwedel - The operation of earthmoving equipment
- 92/0050 - **THE BOC GROUP, INC.** - Loo T Yap - Gas injection apparatus and method
- 92/0051 - **D & S ENGINEERING CC** - Richard Donald Alexander - Rotary braking device
- 92/0052* - **AGRICURA (PRIVATE) LIMITED** - Ian Michael Duncan - Applicator for biologically active substance
- 92/0053 - **THE BOC GROUP, INC.** - Patrick Kearns - Adsorption condensation solvent recovery system
- 92/0054* - **AFRICAN OXYGEN LIMITED** - Cedric Charles Hanson and William James - Treatment of water
- 92/0055 - **ENERGIA E INDUSTRIAS ARAGONESAS, S.A.** - A process for transporting and unloading crystallized sodium cyanide
- 92/0056* - **SWIMLINE HOLDINGS LIMITED** - John Martin Winstanley - Dispenser
- 92/0057 - **SWIMLINE HOLDINGS LIMITED** - John Martin Winstanley - Dispenser
- 92/0058 - **THE BOC GROUP, INC.** - Eiji Hirooka, Jeremy Paul Wheatland and Shain-Jer Doong - Process for producing oxygen enriched product stream
- 92/0059 - **ISIS (PROPRIETARY) LIMITED** - Kenneth Briggs - Accessory for and educational aid
- 92/0060 - **NEWMONT MINING CORPORATION AND NEWMONT GOLD CO.** - James A Brierley and David L Hill - Biooxidation process for recovery of metal values from sulfur containing ore materials
- 92/0061* - **IMPERIAL CHEMICAL INDUSTRIES PLC** - Geoffrey Frederick Brent, Malcolm David Harding and John Cooper - Pyrotechnic composition
- 92/0062* - **IAN HARRISON AND STEVEN JOHN CHESTER** - System for transferring information by means of a token

- 92/0063* - **CORRUGATED DESIGNS (PROPRIETARY) LIMITED** - Stanley Joseph Seeff - A toggle clamp
- 92/0064 - **THE BOC GROUP, INC.** - Karl O Toppel - Adsorbent vessel having a convective heat exchanger and flow developer
- 92/0065 - **DE BEERS INDUSTRIAL DIAMOND DIVISION (PROPRIETARY) LIMITED** - Victor Emul Ross - Screen deck
- 92/0066 - **ADVANCED MINING SOFTWARE LIMITED** - Sarel Johannes Pretorius - Centritugal dewatering
- 92/0067 - **DE BEERS INDUSTRIAL DIAMOND DIVISION (PROPRIETARY) LIMITED** - Victor Emul Ross - Separation method and apparatus
- 92/0068* - **UNITED TOBACCO COMPANY LIMITED AND BATES SCREEN PRINTING & LITHO (PROPRIETARY) LIMITED** - Dispenser container
- 92/0069 - **ICI CANADA, INC.** - Clare T Aitken, Melvin A McNicol and Robert Lebrun - Vegetable oil emulsion explosive
- 92/0070* - **WEST RAND ENGINEERING WORKS (PROPRIETARY) LIMITED** - Clive Donald Collins - Screw down valve
- 92/0071 - **ICI CANADA, INC.** - Arun Kumar Chattopadhyay - Mixed surfactant system
- 92/0072* - **LARRY LIPSCHITZ** - Passenger bus
- 92/0073* - **GUILLUAME DU TOIT AND LUKAS DU RAND** - Dispensing container
- 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 Theodurus 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

- 92/0078* - **IMPERIAL CHEMICAL INDUSTRIES PLC** - Geoffrey Frederick Brent and Malcolm David Harding - Shock tube initiator
- 92/0079* - **THE BOC GROUP, INC.** - Loo T Yap - Fuel Burner apparatus and method for use in a furnace
- 92/0080* - **THE BOC GROUP, INC.** - Ron C Lee - Point level detector
- 92/0081* - **IMPERIAL CHEMICAL INDUSTRIES PLC** - Geoffrey Frederick Brent and Malcolm David Harding - Shock tube initiator
- 92/0082 - **ENVIROTECH (PTY) LTD.** - Peter Hume Glendinning - Filter press and method of operation
- 92/0083* - **MALCOLM JAMES CAMPBELL ROELOFSZ** - Low cost collapsible enclosure
- 92/0084 - **SIEGBERT HEIRICH BISSBORT AND HERNRY JOHN DAVIS** - Substance or composition and uses thereof
- 92/0085 - **DEVANDRA KESHAV KALA** - Dialysis apparatus
- 92/0086* - **DE BEERS MARINE (PROPRIETARY) LIMITED** - Johannes Duijzers - Submersible solid material lifting and classification device
- 92/0087* - **MANOLI CONSTANTINE LIVANOS** - Stationary rack oven
- 92/0088* - **THE BOC GROUP, INC.** - Walter H Whitlock - Mixture forming method and apparatus
- 92/0089* - **ELI LILLY AND COMPANY** - Peter Lloyd Oren and Werner Max Karl Seidler - Sustained release matrix formulations
- 92/0090* - **THE BOC GROUP PLC** - Michael Ernest Garrett - Apparatus for removing hydrocarbon impurities from gases
- 92/0091* - **NET 1 PRODUCTS (PROPRIETARY) LIMITED** - Andre Peter Mansvelt and Serge Christian Pierre Belamant - Funds transfer system
- 92/0092 - **HYPAROOFF CC** - Jacques Pienaar and Hendrik Johan Daling - Roof
- 92/0093* - **AFRICAN OXYGEN LIMITED** - Colin John Precious and Raymund Thomas - Soldering
- 92/0094* - **ELI LILLY AND COMPANY** - David Bennett Anderson, Edward Lee Veenhuizen, Klaus Kurt Schmiegel and Ronald Ralph Tuttle - Phenethanolamines

- 92/0095* - **ELI LILLY AND COMPANY** - Manuel Debono and Herbert Andrew Kirst - 20-Amino macrolide derivatives
- 92/0096* - **JACOBUS OOSTEVALD HORN** - Cementitious composition
- 92/0097 - **MATTHYS JOHANNES VAN ZYL** - Nicolaas Jacobus van Zyl - Building by means of slip forming shuttering
- 92/0098* - **S.A CANOPY CENTRE (PROPRIETARY) LIMITED** - William Keith Fryer - Motor Vehicle Canopy
- 92/0099* - **S.A. CANOPY CENTRE (PROPRIETARY) LIMITED** - William Keith Fryer - Motor Vehicle Canopy
- 92/0100 - **SOUTH AFRICAN ABATTOIR CORPORATION AND DONALD EVANDER MACIVER** - Ruslou Koorts - Method of and apparatus for restraining an animal to facilitate the slaughter thereof
- 92/0101 - **KENNETH DAVID BOGIE AND RODNEY STEPHEN ELK** - Water Sanitisation
- 92/0102* - **GEO KRUGERSDORP ENGINEERING (PROPRIETARY) LIMITED** - David St. John Slater and William Gavin Veale - Decoiling machine
- 92/0103* - **AN/GEL INTERNATIONAL, INC.** - Donald M Stromquist and Boyd J Wathen - Cast primer and small diameter explosive composition
- 92/0104* - **CSIR** - Edgar Edward Evans, Benjamin Fouche, Eli David Goldstein and Adrian David Michie - Access system
- 92/0105 - **DR. KARL THOMAE GMBH** - Roland Maier, Eberhard Woitun, Bernd Wetzel, Wolfgang Reuter, Hans Goeth and Uwe Lechner - Improvements relating to erythromycine derivatives
- 92/0106* - **THE BOC GROUP, INC.** - Jack Appolonia, Clair F Wheeler and Akhilesh Kapoor - Cryogenic freezer apparatus and method
- 92/0107* - **AFRICAN OXYGEN LIMITED JOHN TERENCE LAVIN** - Separation of hydrogen
- 92/0108* - **AFRICAN OXYGEN LIMITED** - John Terence Lavin and Paul Michael Latham - Air Separation
- 92/0109* - **CSIR** - Michael John Camille Marsh and Franco Mario Ragghianti - Electricity consumption regulator
- 92/0110* - **IRECO INCORPORATED** - Donald M Stromquist and Boyd J Wathen - Cast primer and small diameter explosive composition

- 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

NUMBER OF PATENT	DATE OF RESTORATION
88/0045	May 13, 1991

INSPECTION OF SPECIFICATION

A complete specification, may, after acceptance is advertised, be inspected during office hours at the Patent Office, Windhoek.

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COMPLETE SPECIFICATIONS ACCEPTED AND ABRIDGEMENTS OR ABSTRACTS THEREOF

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

13

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

14

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

33

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

16 July 1991

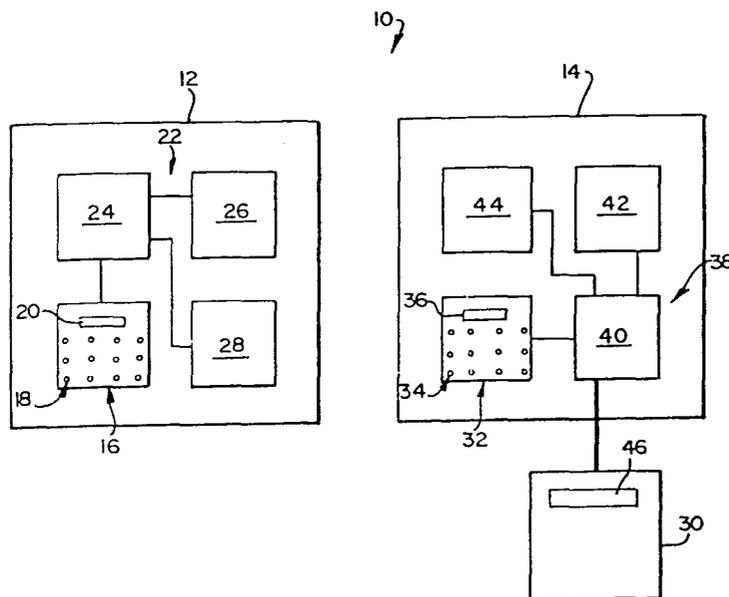
Spescom (Proprietary) Limited

Jonathan Sinclair Youngleson

A credit supply system

18

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.



90/0123

25 September 1990

9 April 1991

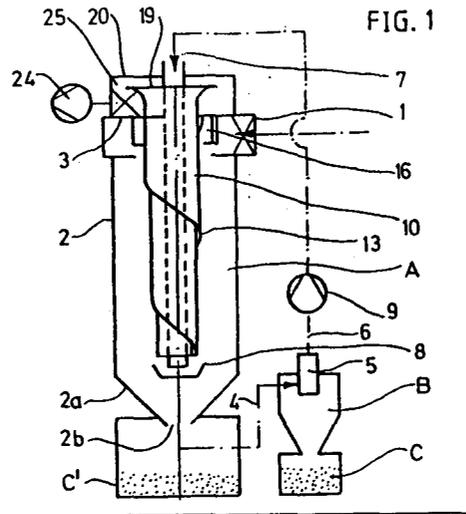
GFG Projects (Proprietary) Limited

Prof. Dr.- Ing. Paul Schmidt

Cyclone separating apparatus comprising a longitudinally slotted thimble

17

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 fashion.



90/0124

25 September 1990

9 April 1991

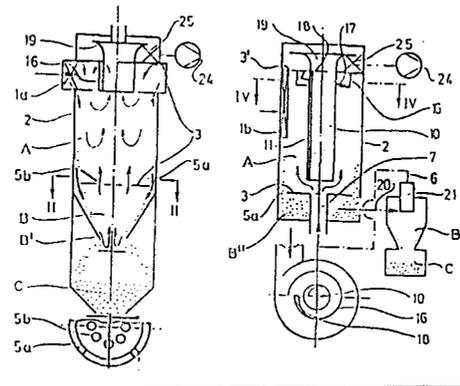
G F G Projects (Proprietary) Limited

Prof. Dr.- Ing. Paul Schmidt

Cyclone with energy-saving thimble design

42

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.



90/0125

25 September 1990

9 April 1991

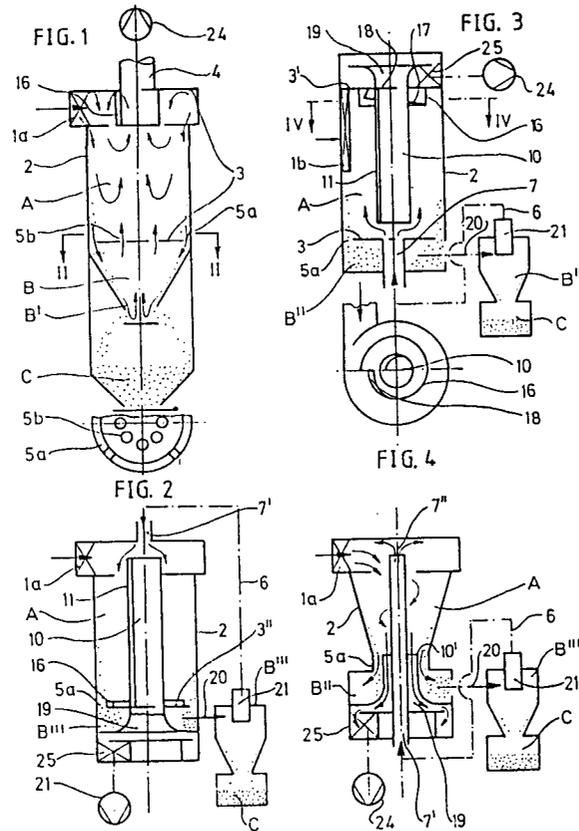
G F G Projects (Proprietary) Limited

Professor Dr.-Ing. Paul Schmidt

Process and apparatus for cyclonic separation of intermixed phases

49

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

33

There is disclosed a hypoallergenic (oligoantigenic) nutritional formula comprising a homogeneous powder of such fineness that it will form 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 content, 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

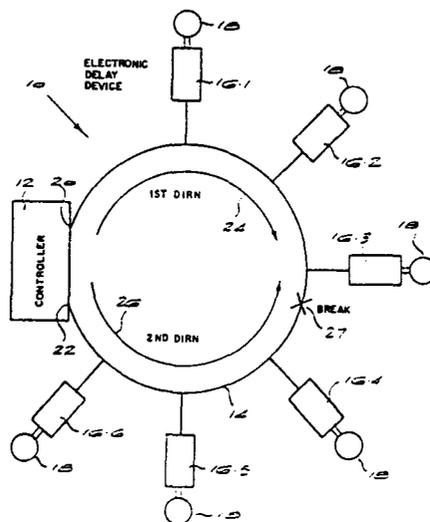
Michael John Camille Marsh, Raymond Catherall Atkins and Trevor Meredith Hodson

Timing apparatus

94

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 provides an apparatus for activating a plurality of electrical loads after predetermined time delays.



90/0131

5 October 1990

24 October 1991

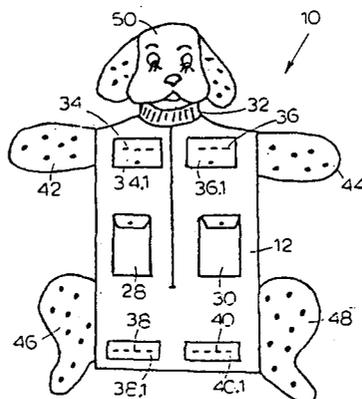
Andrina Franzsen

Andrina Franzsen

Sleeping bag

14

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.



90/0134

8 October 1990

19 July 1991

Pentagraph (Proprietary) Limited

Michael Guy Robin McWilliams

Support of narrow necked vessels

20

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.

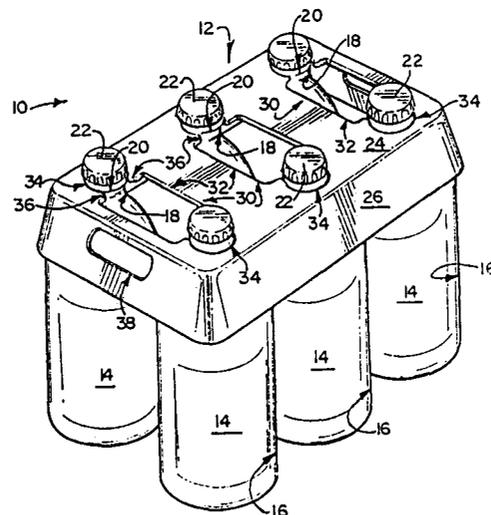


FIG 1

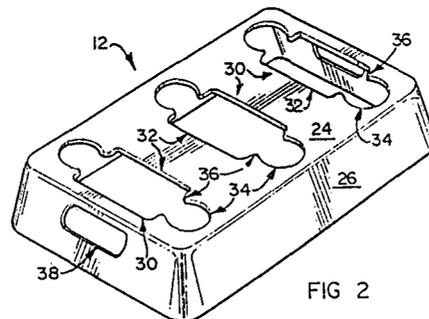


FIG 2

90/0135

9 October 1990

9 August 1991

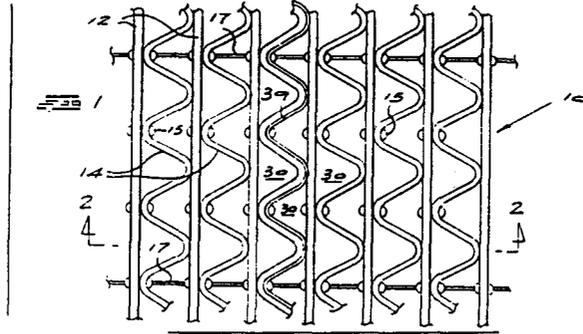
Metador Industries (Proprietary) Limited

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 comprising towing a 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.



90/0138

18 October 1990

25 March 1991

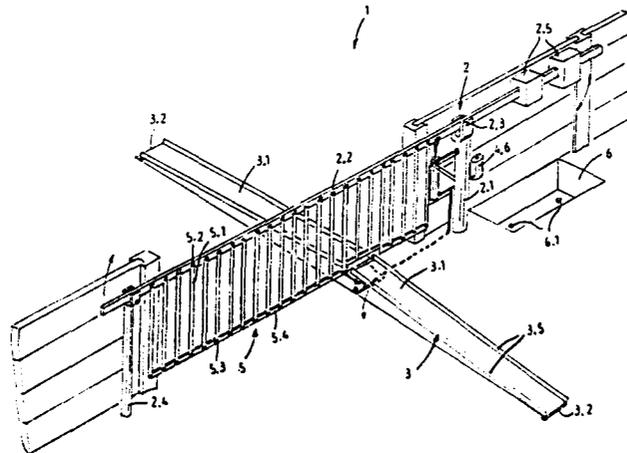
Hendrik Johannes Breedt

Hendrik Johannes Breedt

Hydraulic gate

19

This invention relates to gates and more to gates which are automatically operated. It provides a gate of relative simple construction which operates automatically by utilizing the pressure exercised by the weight of a motor vehicle passing through the gate.



90/0140

19 October 1990

14 May 1991

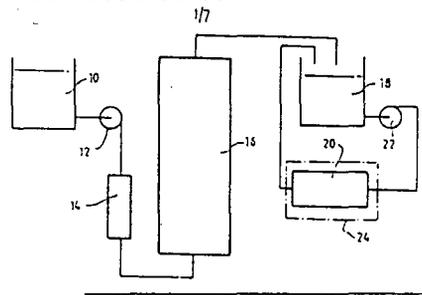
International Consolidated Resources N.V. and Peter C Goosen

Peter C Goosen, Brett Crossley and Ian Tomlinson

Convection elution

31

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.



90/0141

19 October 1990

25 October 1990

Sasol Industries (Proprietary) Limited

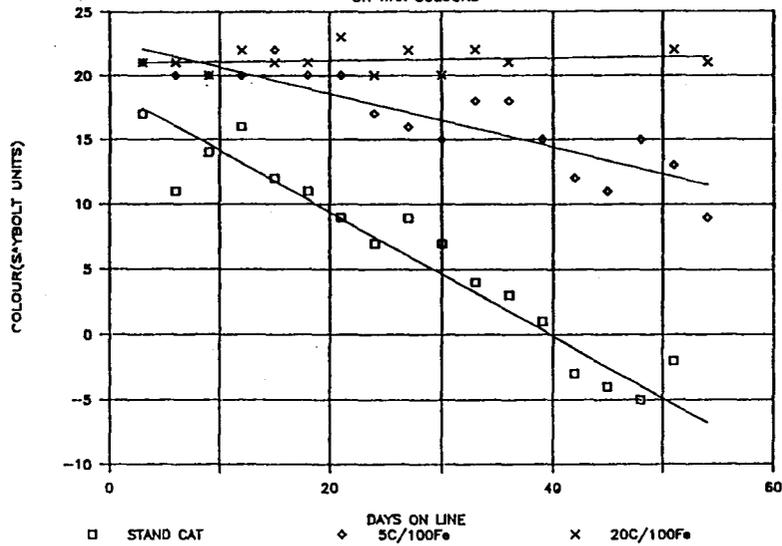
Mark Eberhard Dry, Anthony John Olivier, Dawid Jakobus Duvenhage

Fixed bed fisher-tropsch catalyst and manufacture thereof

26

This invention relates to catalyst. More particularly, the invention relates to a fixed-bed fisher-tropsch catalyst, to a method of manufacture thereof, and to a process for the production of aliphatic hydrocarbons comprising wax.

FIG1 EFFECT OF CARBON
ON WAX COLOURS



90/0142

24 October 1990

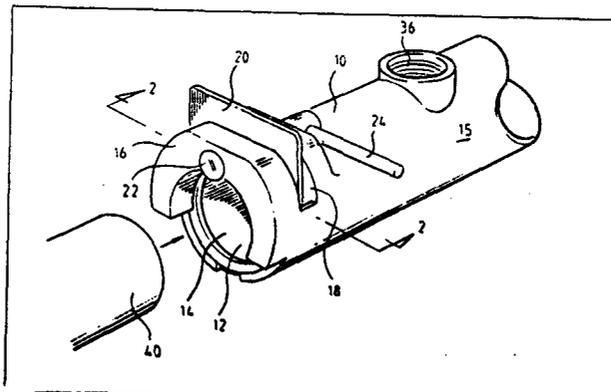
Ockert van Rooyen

Ockert van Rooyen

Pipe Coupling

9

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.



90/0143

24 October 1990

9 August 1991

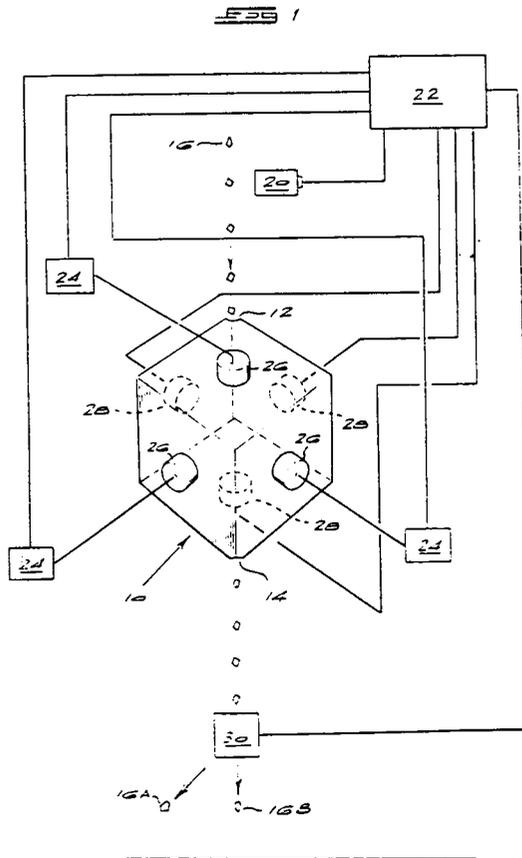
De Beers Industrial Diamond Division (Proprietary) Limited

Barry John Downing and John David Salter

Particle classification

19

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 changes 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.



90/0144

1 November 1990

20 February 1991

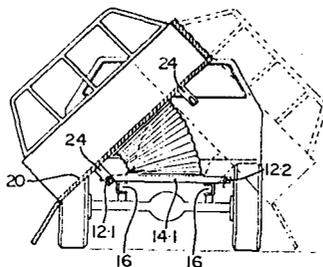
Otto Hein van der Dussen

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 from load carrying position to a tipping position.



90/0146

12 November 1990

12 August 1991

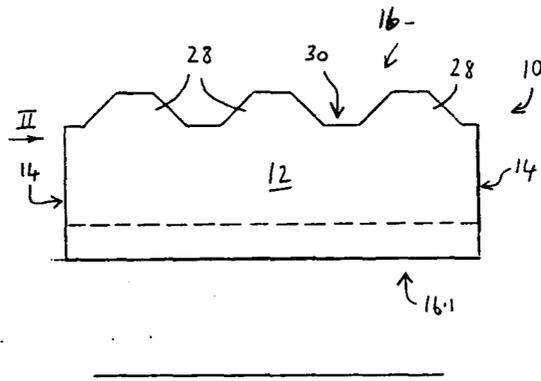
Clasica Bricks (Proprietary) Limited

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.



90/0147

12 November 1990

23 August 1991

The trustees for the time being of the vosloo trust

Christiann Frederick Vosloo

Auctioning of livestock

14

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:

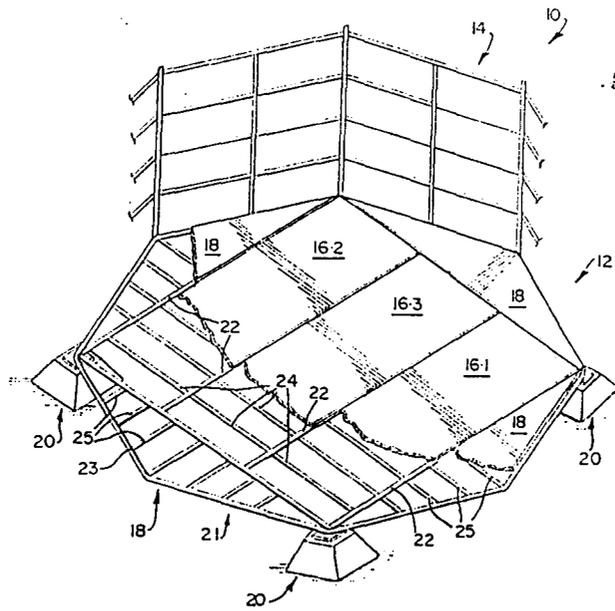


FIG 1

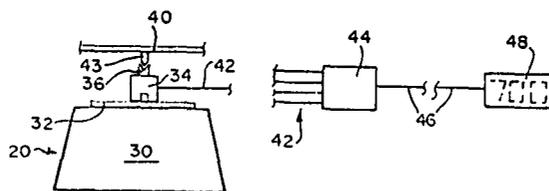


FIG 2

90/0152

22 November 1990

19 June 1991

Imperial Chemical Industries PLC

Neil Tindale

Polyester bottles

20

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

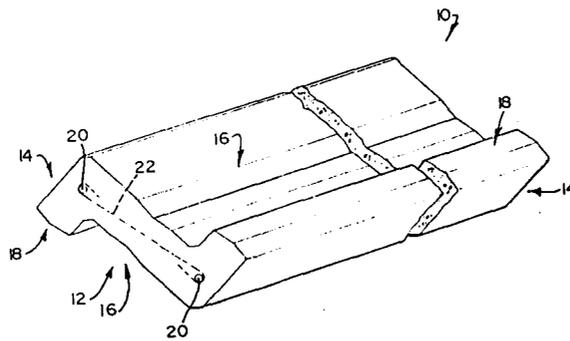
CSIR

Anton Heyn

Building

25

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.



90/0154

28 November 1990

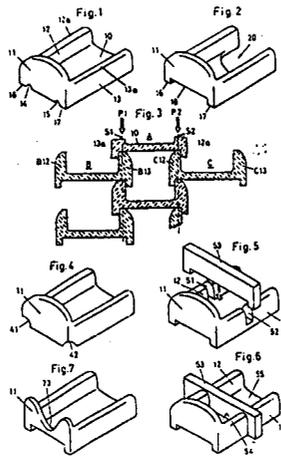
8 March 1991

Steiner Silidur AG Andelfingen

Bernhard Winkler and Alfred Steiner

25

Wall component for the dry construction of walls, construction set for the stabilization of side slopes, and retaining wall formed using said construction set.



90/0155

26 November 1990

17 July 1991

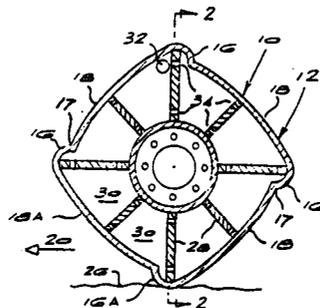
Aubrey Ralph Berrange

Aubrey Ralph Berrange

Impac compactors

17

This invention relates to impact compactors which is a device for performing impact compaction of soil.



90/0156

29 November 1990

9 October 1991

Inco Limited

Gordon Edward Agar

Metal recovery

16

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.

90/0157

12 December 1990

17 July 1991

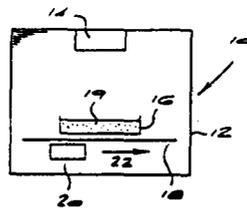
De Beers Industrial Diamond Division (Proprietary) Limited

Edwin Harm Roos

Material separation

15

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

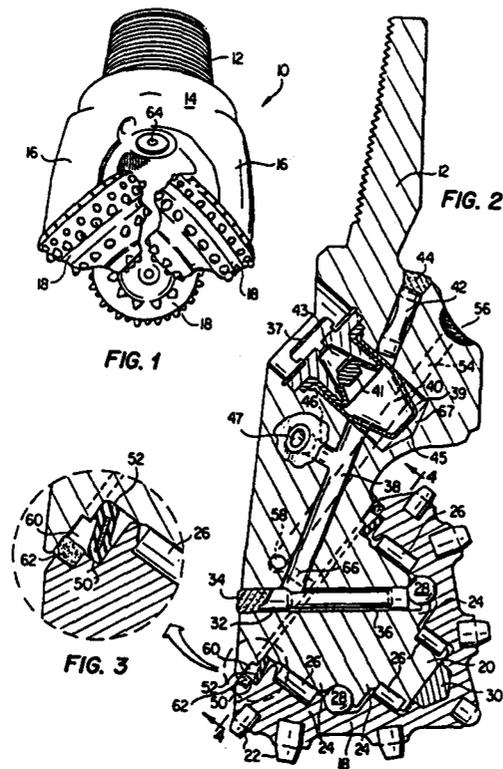
Dresser Industries, Inc.

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.



90/0163

21 December 1990

28 May 1991

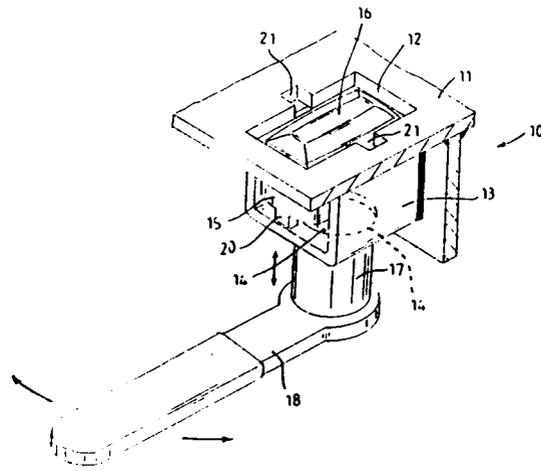
Brycol Engineering (proprietary) Limited

Brian Loundes Woodward

Twist lock

26

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 end in a locking head, the body being movable between a retracted position wherein it is disposed within the housing and an operative extended position wherein the locating body projects through an aperture in the upper 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.



91/0002

4 January 1991

15 April 1991

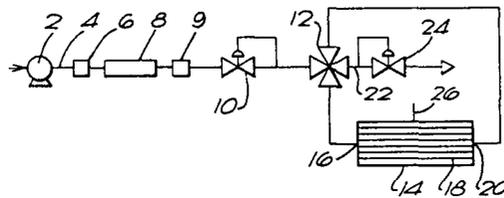
The BOC Group PLC

Piotr Jan Sadkowski and Michael Ernest Garrett

Gas separation apparatus

13

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.



91/0003

4 January 1991

20 November 1991

Dr Basil Frank and Andre Marius Gouws

Dr Basil Frank and Andre Marius Gouws

Pharmaceutical preparation

13

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 (Amoxicillin).

91/0005

17 January 1991

21 January 1991

African Oxygen Limited

Anthony Roger Spencer Audsley, Neville George Gregory and Ambur Balakrishnan Mohan Raj.

Humane slaughter of poultry

28

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.

91/0006

17 January 1991

21 January 1991

African Oxygen Limited

Anthony Roger Spencer Audsley, Neville George Gregory and Ambur Balakrishnan Mohan Raj.

Anoxic poultry stunning

25

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.

91/0007

18 January 1991

27 February 1991

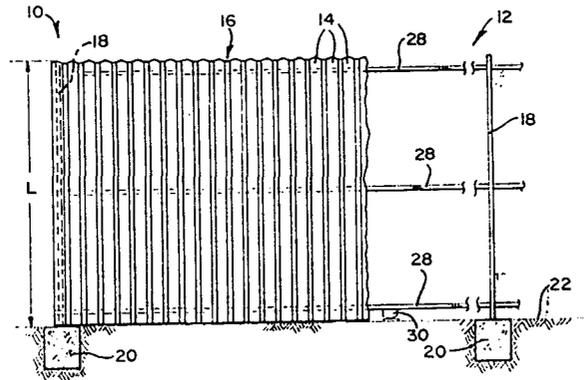
Nicolaas Gerhardus van den Berg

Nicolaas Gerhardus van den Berg

Walling

18

This invention relates to walling. More particularly it relates to a method of erecting a wall, to a wall and to a wall kit.



91/0009

13 February 1991

28 August 1991

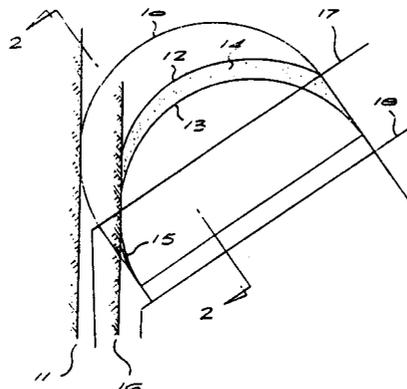
Boart International Limited

David Stanley Williams

Button Sharpening

24

This invention relates to the sharpening of hardmetal buttons on button-type drill bits.



91/0010

12 February 1991

27 February 1991

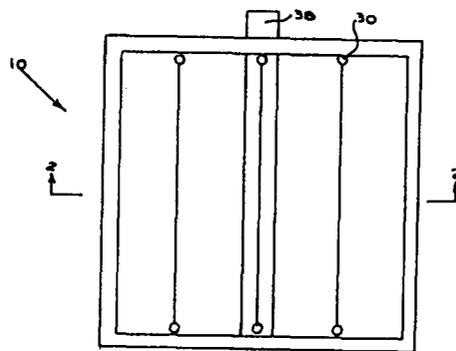
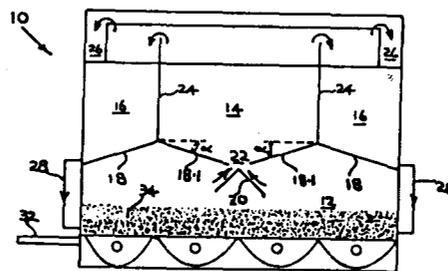
Devendra Keshav Kala

Devendra Keshav Kala

Apparatus for use in the anaerobic treatment of organic material

15

According to the apparatus for anaerobic treatment of organic material comprises a container having a digester zone in communication with a clarifier zone via at least one opening in partitioning means located between the digester 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.

**FIG. 1**

91/0011

19 February 1991

15 August 1991

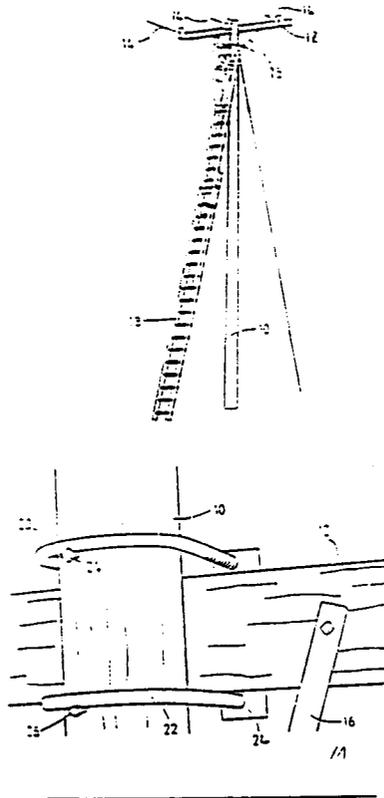
Eskom

Faljo Arno Halderman, Allan Cristopher Holmes, Charlie Nel William Shacks, Kenneth Gilbert Tanner, Peter Charles Grantham and Steen Robert Lutz.

Method and apparatus for securing rope or cable to an overhead structure

20

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.



91/0014

21 February 1991

19 July 1991

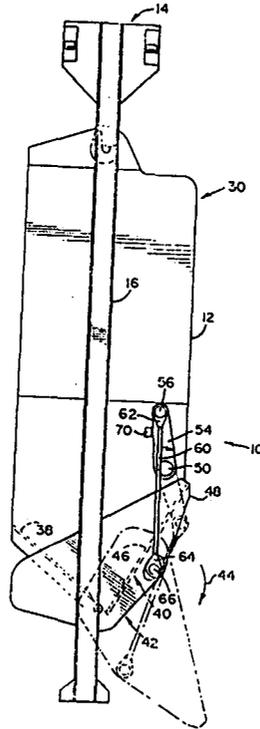
Rotaque (Proprietary) Limited

Robert Montaque Joubert

Skip

28

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

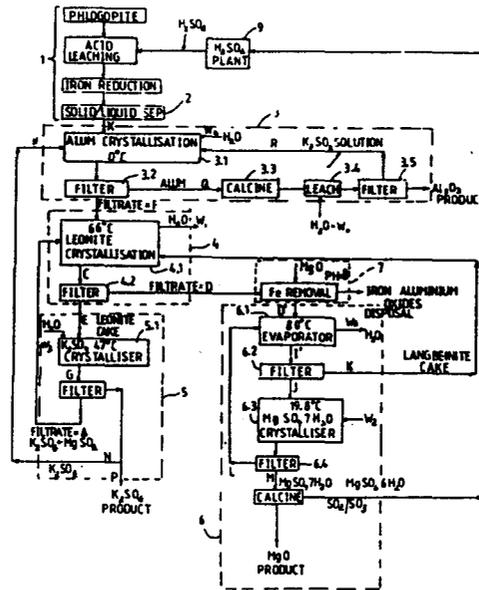
CSIR

Nicolaas van der Dussen and Cornelis Petrus Geyer

Recovery of aluminium, potassium, and magnesium values from ore bodies.

31

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.



RECOVERY OF Al_2O_3 , K_2SO_4 AND MgO FROM PHLOGOPITE AND KAOLINITIC CLAY MIXTURE

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.

91/0018

4 March 1991

15 November 1991

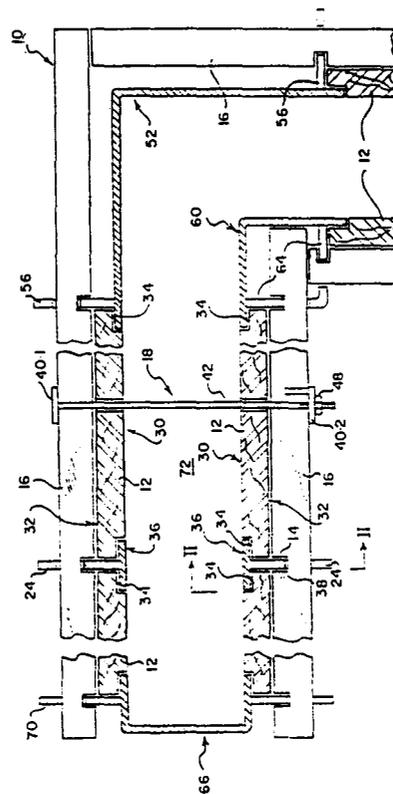
Moulded Homes Investments Close Corporation

Jöger Ebsenhaezer Groenewald and Patrick Moreland

Construction method and shuttering panel for use in such method

29

This invention relates to a dismountable shuttering system and to a method of building a walled structure.



91/0019

4 March 1991

24 May 1991

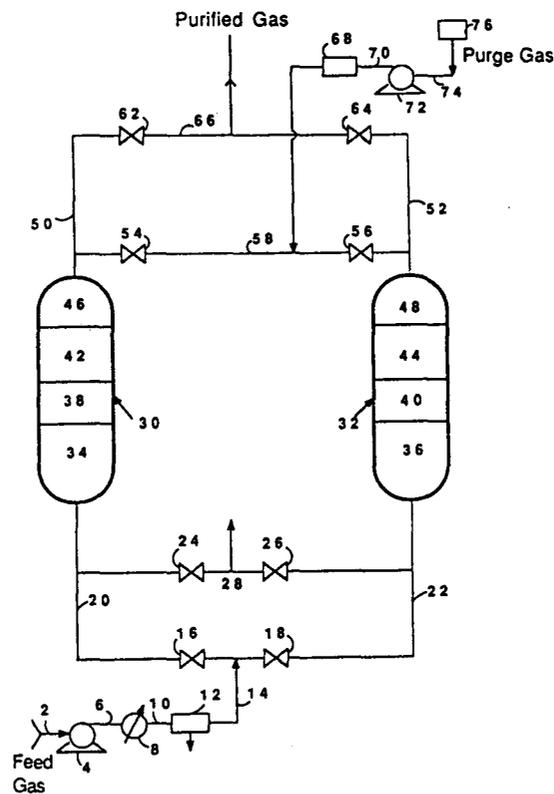
The BOC Group, Inc.

Ravi Jain

Purifying fluids by adsorption

27

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.



91/0020

4 March 1991

5 March 1991

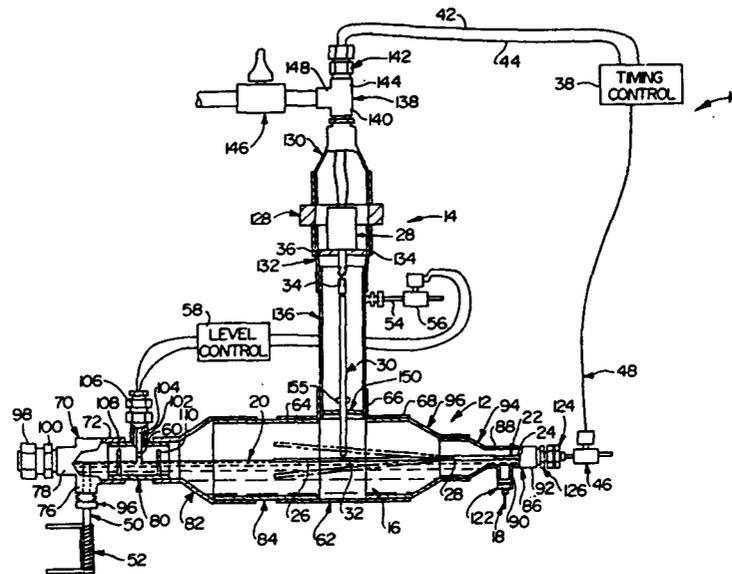
The BOC Group, Inc.

Ron C Lee and Mark J Kirschner

Cryogen delivery apparatus

35

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

13

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

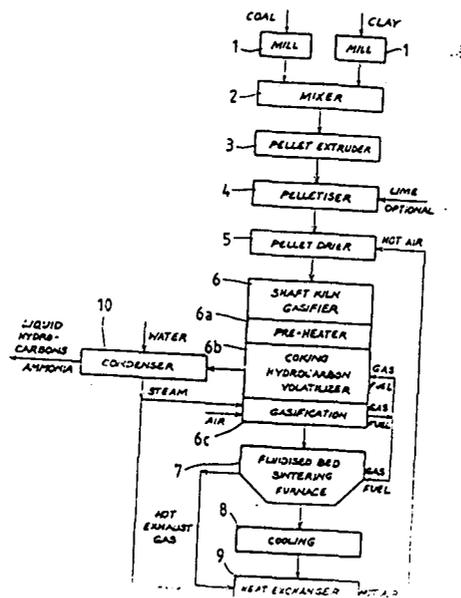
Literock International (Proprietary) Limited

Gerald Alan Derby-Lewis

Aggregate for use in making structural elements

22

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, pelletising 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

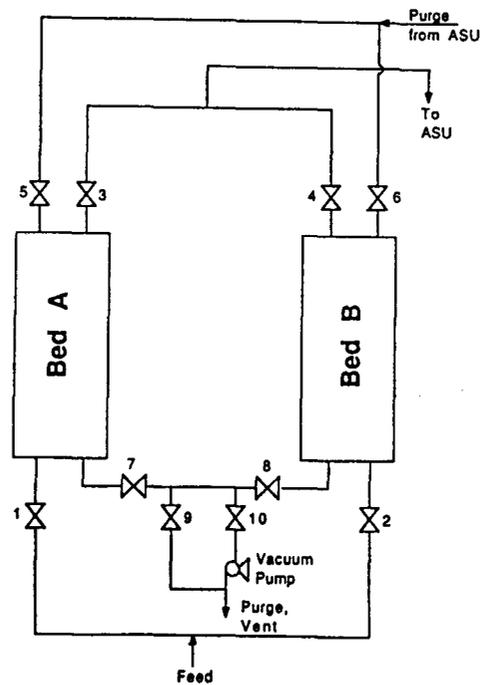
The BOC Group, Inc.

Ravi Jain and Alberto La Cava

Pre-purification of air for separation

21

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

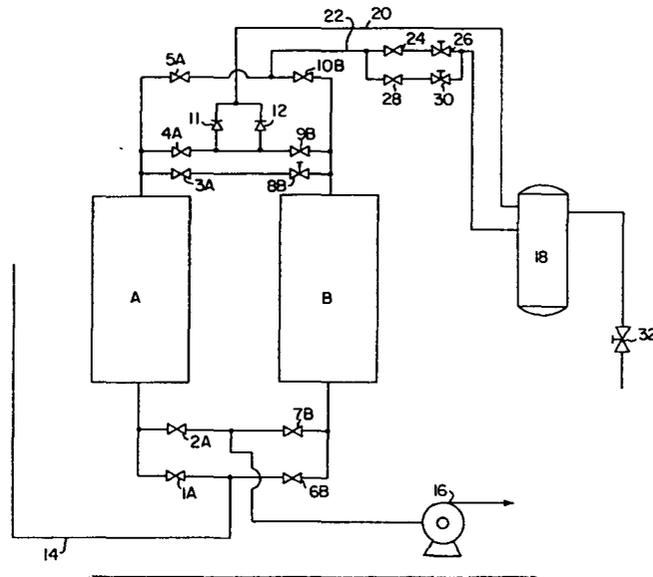
The BOC Group, Inc.

Eiji Hirooka

Process for producing oxygen enriched product stream

19

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.



91/0032

28 March 1991

9 October 1991

Mining Services International Corporation

Charles Michael Lownds

Blasting composition

13

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.

91/0033

2 April 1991

3 April 1991

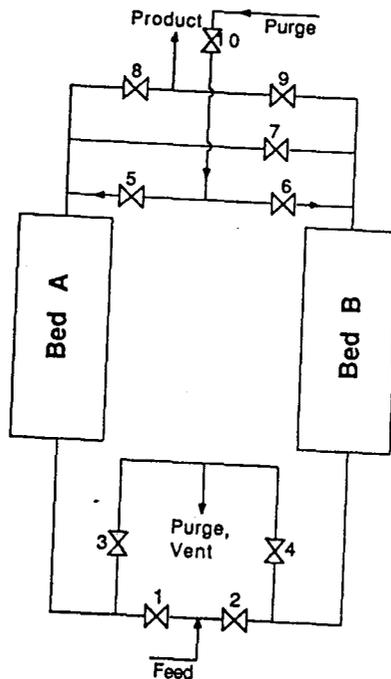
The BOC Group, Inc.

Ravi Jain

Pre-purification of air separation

23

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



91/0034

4 April 1991

4 July 1991

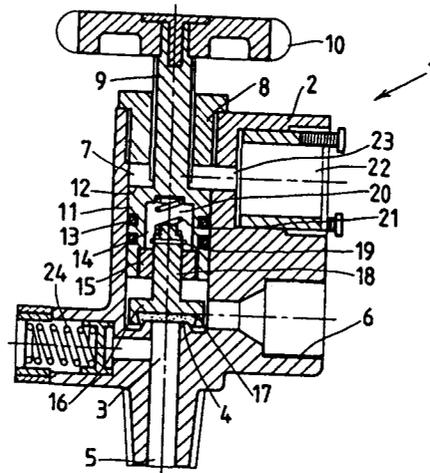
Albert Arthur Phillips

Albert Arthur Phillips

Protective filling valve

21

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.



91/0036

9 April 1991

17 December 1991

S.A. Acec Union Miniere N.V.

Guy G L B Haesebrock an Acdhille J M De Schepper

Metal Extraction by ion exchange

20

The invention relates to a process for extracting one ore 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 condtacted with a solid ion exchanger at a pH at which the ion exchanger absorbs said one or more metals, said ion-exhanger 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

91/0037

10 April 1991

19 July 1991

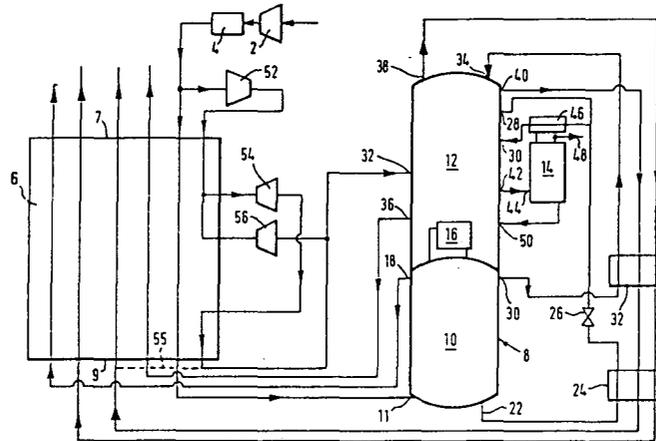
African Oxygen Limited

Andrea Buttle

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

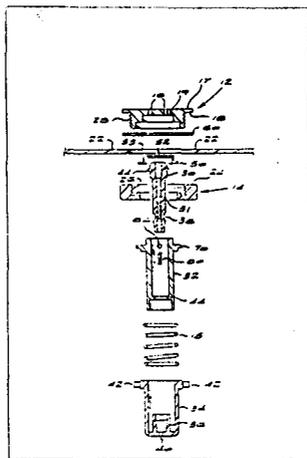
Steiner Services (Proprietary) Limited

Michael Anthony Buckley

Outlet for a container containing a fluid

15

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

18

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

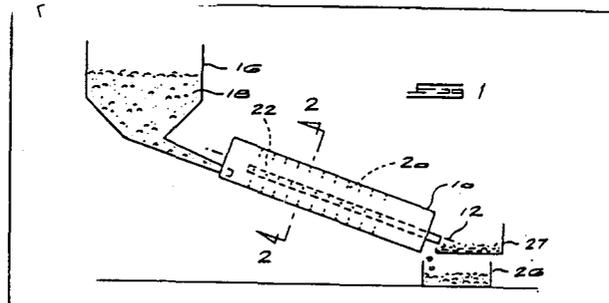
De Beers Industrial Diamond Division (Proprietary) Limited

Edwin Harm Roos, Colin Hugh Maybury and Edmund Patrick Hyland

Rake sorter

19

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

13

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

33

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.

91/0051

22 May 1991

9 August 1991

Atlas Powder Company

Catherine Vonommeren

Prill for emulsion explosives

36

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.

91/0052

27 May 1991

2 September 1991

Ciba-Geigy A G and Institute of microbiology and epidemiology, academy of military medical sciences

Yiging Zhou, Dianxi Ning, Shufen Wang, Deben Ding, Guofu Li, Chenggi Shan and Guangyu Liu

Antimalarial compositions

20

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.

91/0053

7 June 1991

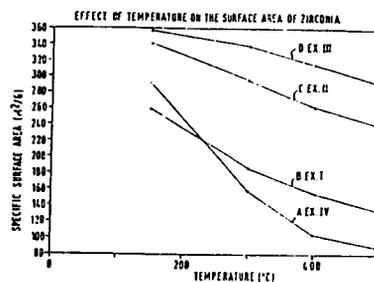
2 September 1991

Shell Research Limited

High surface area zirconia

16

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 $180\text{m}^2/\text{g}$ after calcination at a temperature of 300°C .



91/0055

13 June 1991

13 September 1991

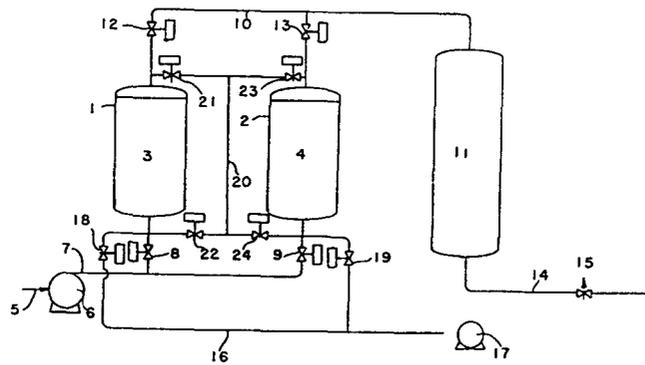
The BOC Group, Inc.

Norberto O Lemcoff and Robert C Gmelin

Pressure swing adsorption method for separating gaseous mixtures

33

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 an adsorption step, a pressure equalization step, a back fill step, and an evacuation and purge step.



91/0057

21 June 1991

15 August 1991

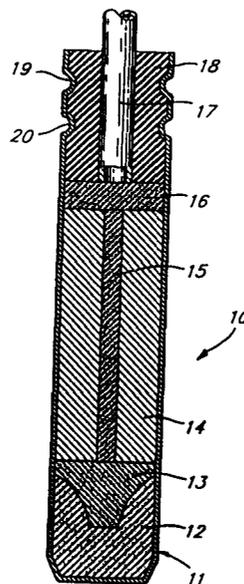
CXA Ltd./CXA LTEE

Donald Clinton True and Raymond Carriere

Delay initiator for blasting

20

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.



91/0059

1 July 1991

19 July 1991

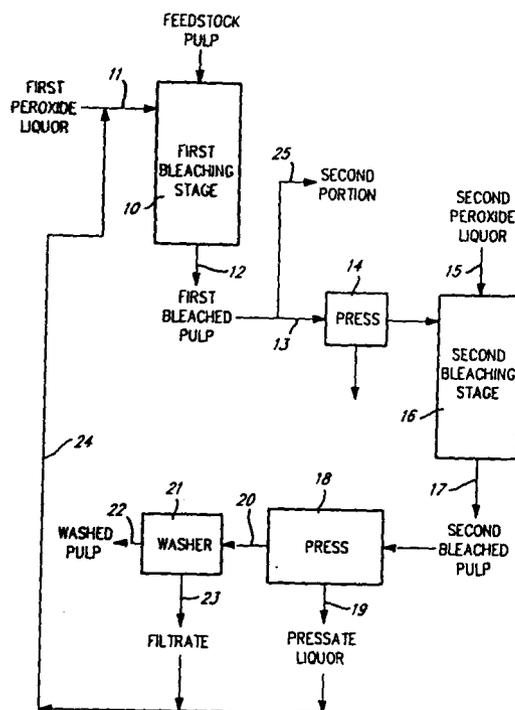
ICI Canada Inc.

Paul Dubelsten, John Richard Du Manoir and Christopher John Kanters

Two-stage peroxide bleaching process

22

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.



91/0060

4 July 1991

4 October 1991

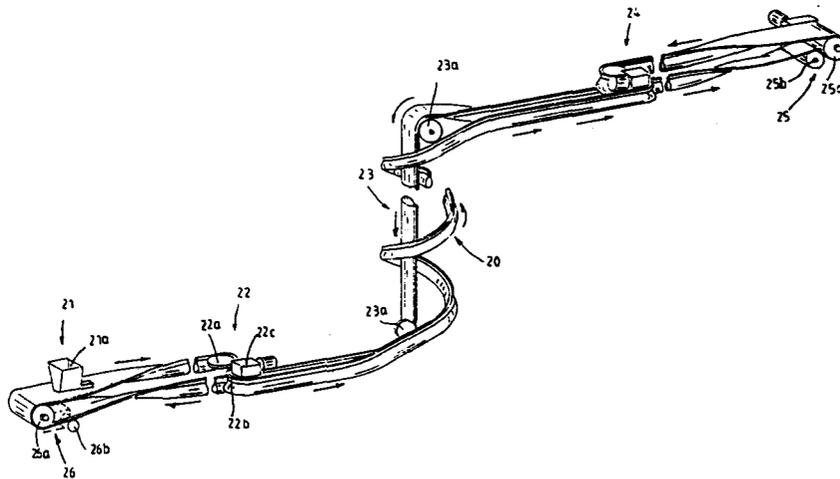
Bateman Project Holdings Limited

Yosef Kivvovich 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

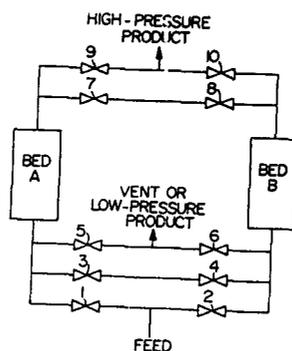
The BOC Group, Inc.

Arthur I Shirley and Alberto I La Cava

Pressurization PSA systems for the production of high purity product gas

40

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 discribed above.



91/0069

12 October 1991

22 October 1991

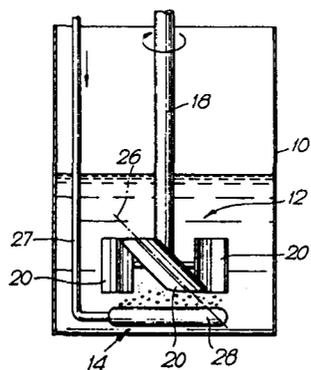
Imperial Chemical Industries PLC

John Colin Middleton and Michael Cooke

Agitators

27

This invention relates to agitators for the dispersion of a fluid in a liquid.



91/0076

26 July 1991

9 September 1991

Chemical Services Limited

Reginald Arthur Hunn and Edward Clarke

Sealant composition

18

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.

91/0080

31 July 1991

7 November 1991

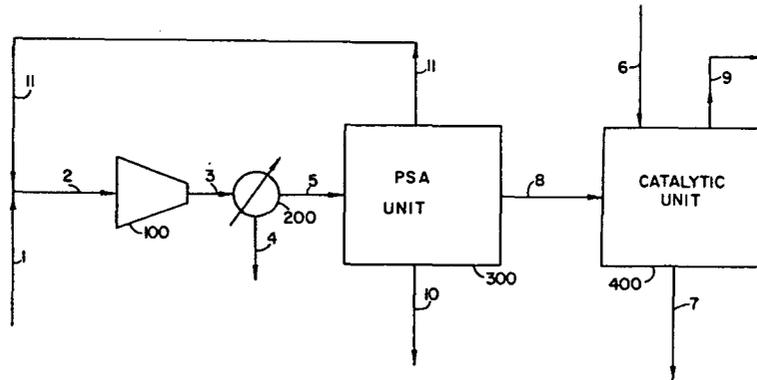
The BOC Group, Inc.

Ramachandran Krishnamurthy, Satish S Tamhankar and Walter H Whitlock

Process for helium purification

31

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.



91/0081

31 July 1991

1 August 1991

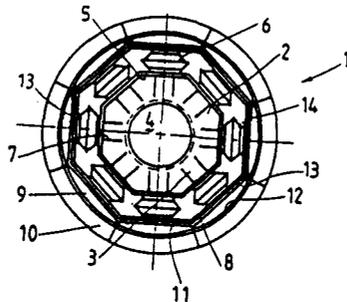
Edward Gerhard Hynes and Julian Bryan Hutchins

Edward Gerhard Hynes

Wheels for vehicle

30

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.



91/0087

23 August 1991

2 December 1991

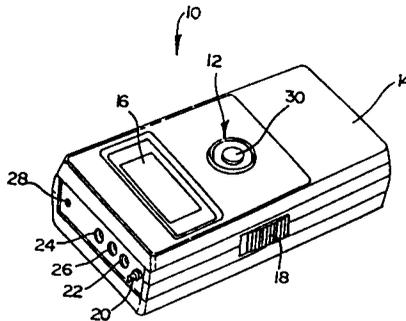
CSIR

Christoffel Johannes Kok

Light meter and detector therefor

18

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 Rakszawski

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

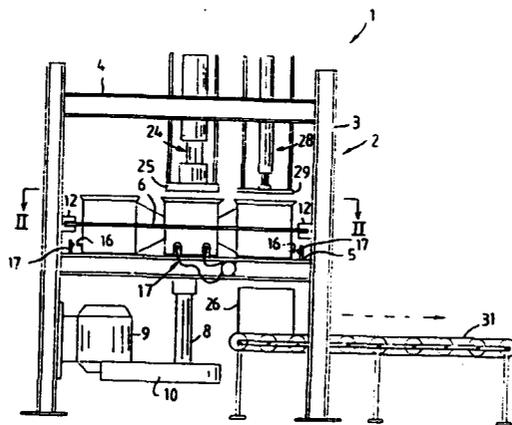
Aeci Limited

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.



91/0092

13 September 1991

11 November 1991

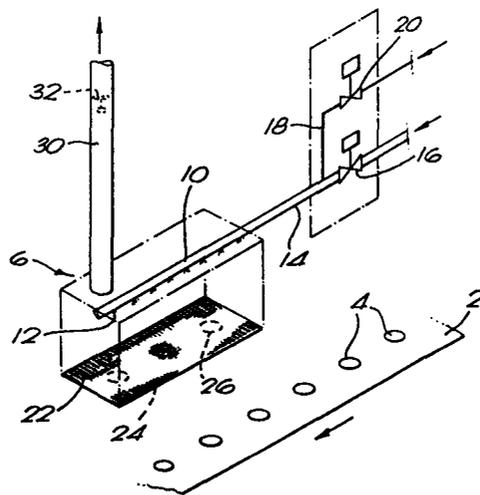
African Oxygen Limited

Stephen James Date

Treatment of Food and other products

24

This invention relates to the treatment of food and other products.



91/0098

4 October 1991

11 December 1991

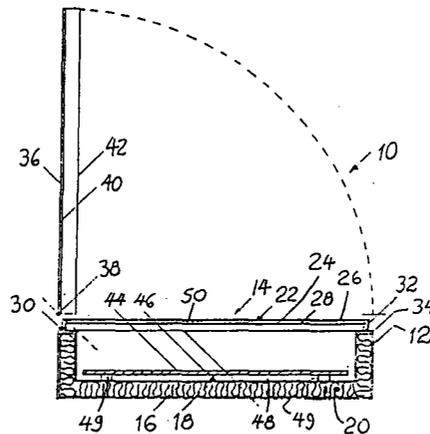
Klaus-Peter Klein, Ruediger Adolf Gerd Diekmann and Hartmut Boehm

Klaus-Peter Klein, Ruediger Adolf Gerd Diekmann and Hartmut Boehm

Solar equipment

30

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.



91/0099

4 October 1991

13 September 1991

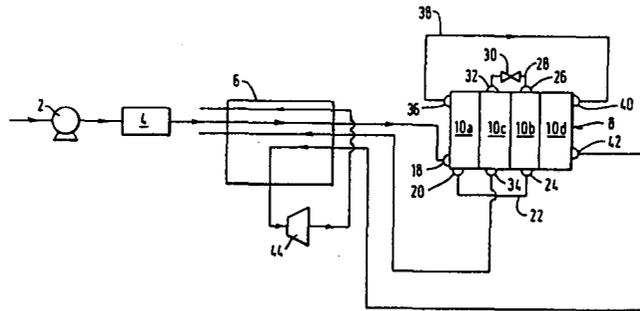
African Oxygen Limited

John Terence Lavin and Thomas Rathbone

Separation of gas mixtures

16

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.



91/0105

17 October 1991

25 November 1991

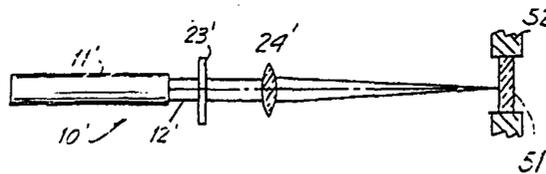
Harry Winston, S.A.

Harry Winston and Necip Alev

Methods for producing indicia on diamonds

29

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.



91/0106

17 October 1991

26 November 1991

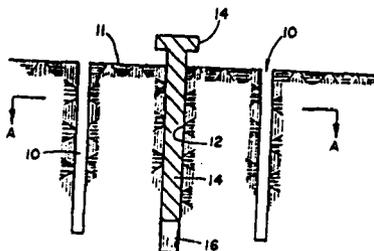
Howard D Bruce

Howard D Bruce

Method of fracturing rock or similar material

26

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.



91/0107

24 October 1991

24 October 1991

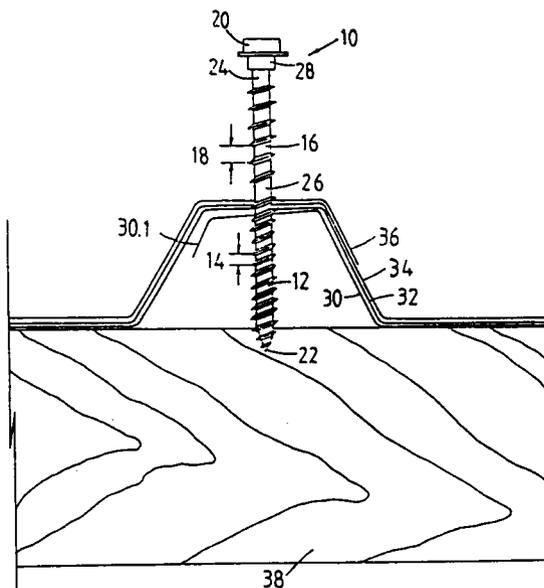
CSIR

Nicolaas Hendrik Arnold

Roof screw

20

This invention relates to fasteners. More Particularly, the invention relates to a screw suitable for securing one object to another.



91/0109

24 October 1991

13 December 1991

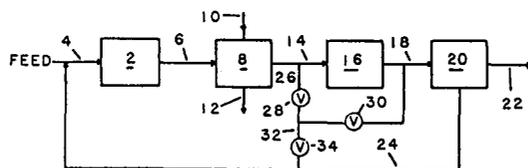
The BOC Group, Inc.

Ramakrishnan Ramachandran, Arthur I Shirley and Lien-Lung Sheu

Production of hydrocarbon derivatives

32

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 explosion of fire in an existing or new vapour phase reactor system in which a petrochemical is produced from a hydrocarbon and oxygen.



91/0111

-54-

11 November 1991

4 December 1991

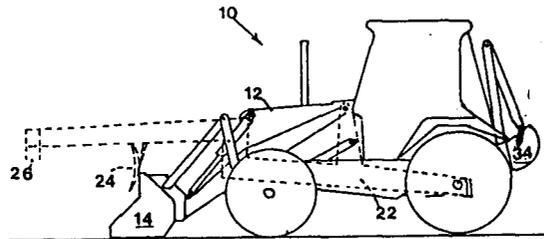
Leo Carlo Giuseppe Mattioda

Leo Carlo Giuseppe Mattioda

Attachment for a tractor

10

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.



91/00113

12 November 1991

15 November 1991

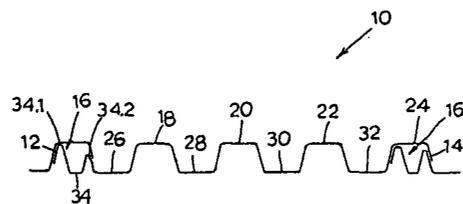
CSIR

Nicolaas Hendrik Arnold

Roof sheet

13

This invention relates to a profiled roof sheet having a pair of spaced apart first sides which are substantially parallel to each other and a pair of spaced apart second sides which are also substantially parallel 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.



91/0128

13 December 1991

16 December 1991

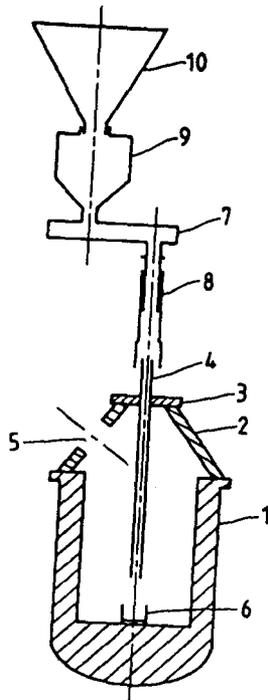
Mintek

Lourens Jacobus Erasmus and Albert Francois Simon Schoukens

The production of calcium carbide

26

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.



91/0129

11 December 1991

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 on 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.

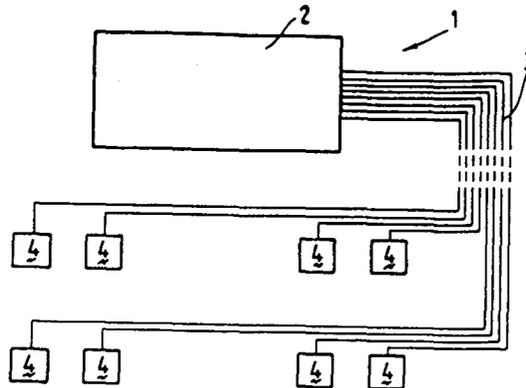


FIG. 1

92/0001

3 January 1992

17 June 1992

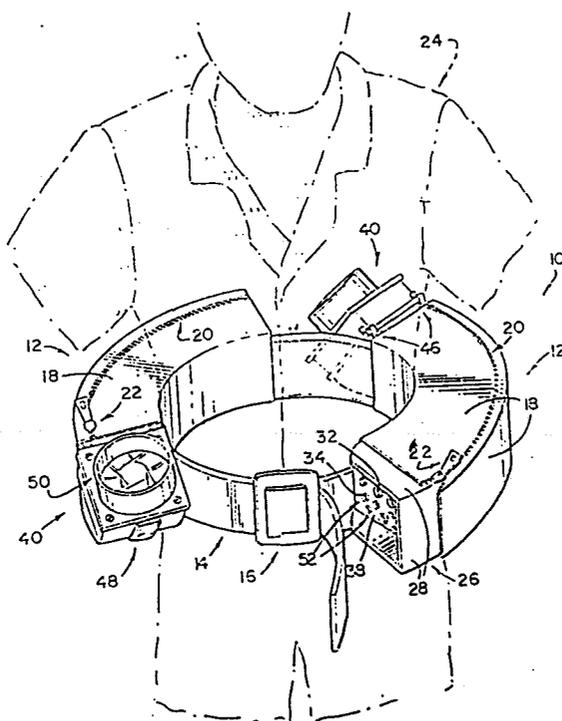
CSIR

Jacob Marthinus Gouws and Nicolaas Claassen

Cooling device

28

This invention relates to a cooling device more particularly it relates to a cooling device for use by individual persons in hot environments.



92/0002

8 January 1992

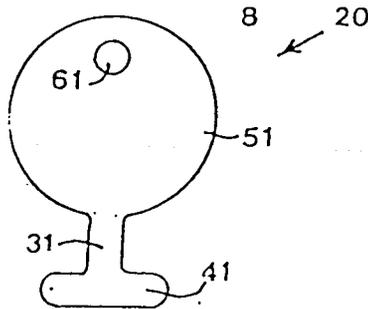
22 May 1992

Irene Elizabeth Palin

Element for hanging a skein of yarn or the like

20

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.



92/0003

15 January 1992

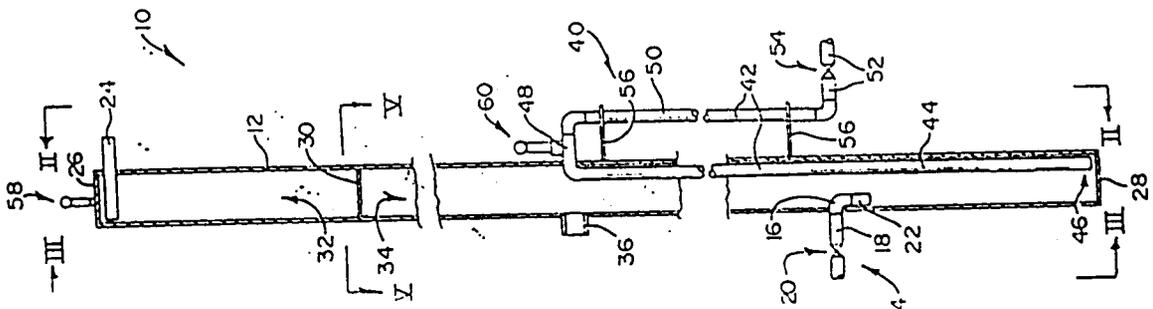
30 June 1992

Nicholas Jerome Nortje and Pavel Polasek

Filtration

23

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.



92/0005

29 January 1992

17 March 1992

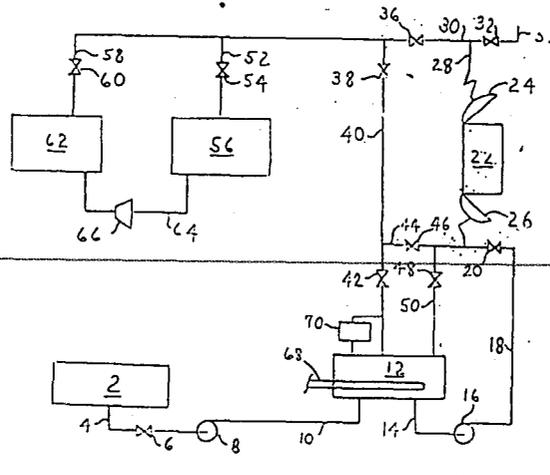
The BOC Group, Inc.

Ira Steinberg

Method and apparatus for expanding cellular materials

38

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.



92/0008

11 February 1992

7 January 1993

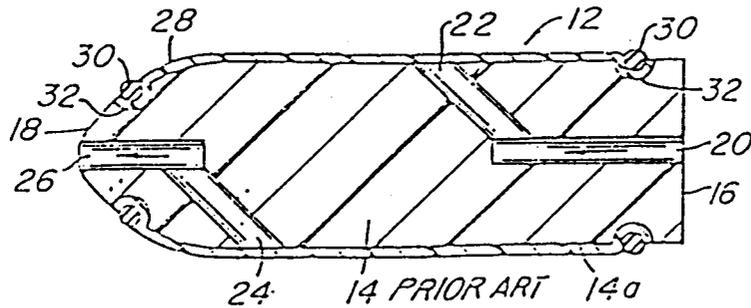
Atomic Energy Corporation of South Africa Ltd.

Gert Wentzel Jacobus van der Berg and Dirk Johannes van der Bank

Measuring thickness or depth of a penetrable layer

37

This invention relates to measuring. It relates more specifically to measuring the thickness or depth of a penetrable layer.



92/0011

19 February 1992

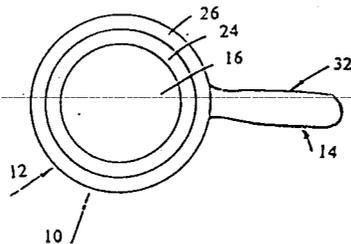
21 September 1992

Louis Friedrich Harris

Container Device

31

The present invention relates container device. More particularly, the invention relates to container devices for containing and preparing edible material, such a popcorn.



92/0012

20 February 1992

31 March 1992

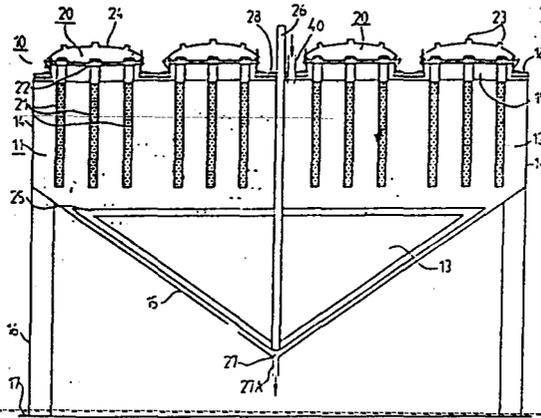
Sala International AB

Jan Odd Bogen and Marie-Louise Olstedt-Wallin

A method and apparatus for thickening fine particle suspensions

41

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

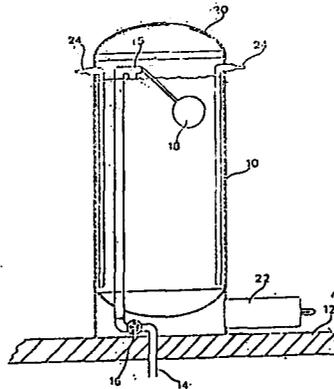
3 March 1992

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.



92/0016

5 March 1992

20 July 1992

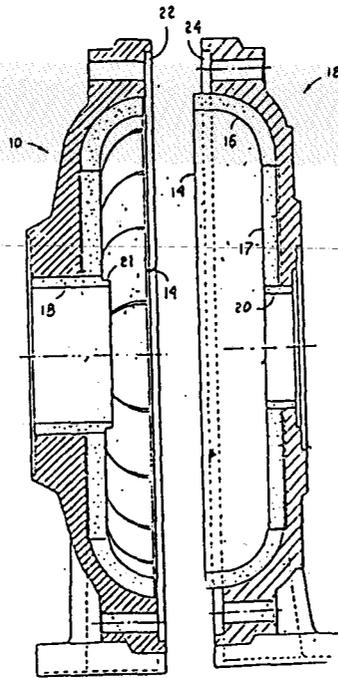
AECI Limited

Leroy Alan White and Peter Michael Grant

Wear resistant pump

25

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.



92/0017

19 March 1992

10 June 1992

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 enveloped viruses, threatment 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

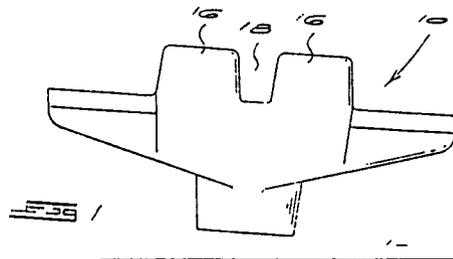
Form-scaff (Pty) Ltd.

Richard Samuel Morrison and Leandro Gonzalez-nunez

Jack support plate

19

This invention relates to a jack support plate



92/0021

27 March 1992

20 July 1992

ICI Canada Inc.

Fortunato Villamagna, Ming Chuna Lee and Arun Kumar Chattopadhyay

Explosive comprising a foamed sensitizer

28

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

92/0023

31 March 1992

1 July 1992

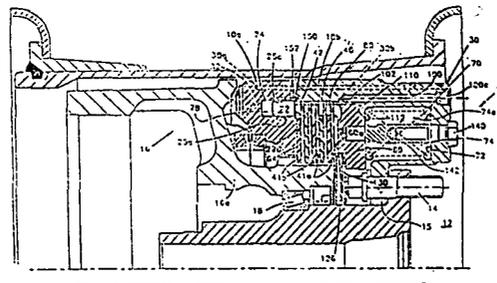
Clark Equipment Company

Gregory T Dewald and Charles D Schaber

Wet disc brake

31

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



92/0024

15 April 1992

5 November 1992

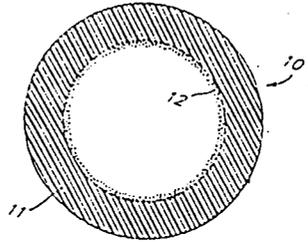
ICI Canada Inc.

Robert C. Greenhorn and Jacques Lafond

Shock Tubing

19

This invention relates to shock tubing and, more particularly, to a method of producing coloured shock tubing that facilitates measurement of core loading.



92/0025

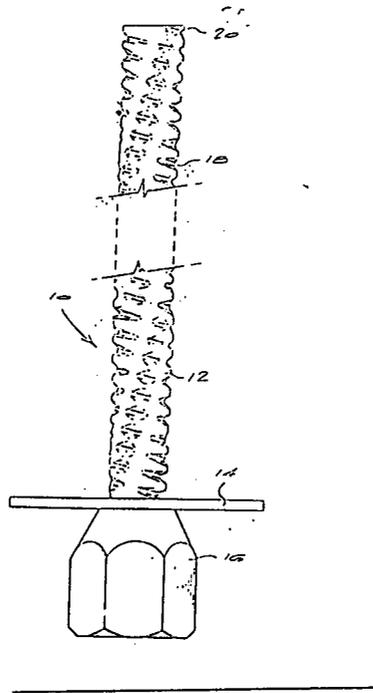
15 April 1992

12 November 1992

Theodore Daniel Swemmer

Roof Bolts

15



92/0027

16 April 1992

4 August 1992

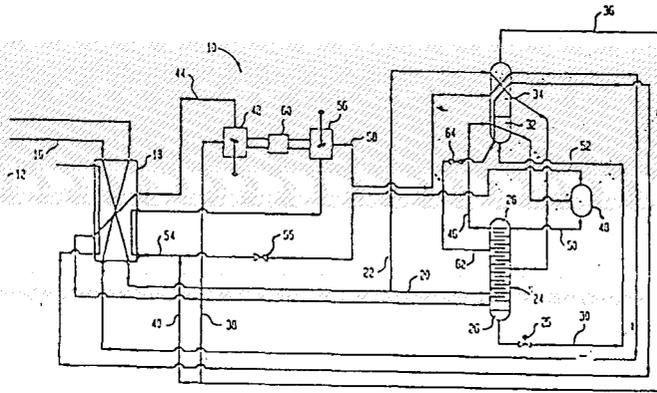
The BOC Group, Inc.

Sidney S Steyn

Process and Apparatus for producing nitrogen of ultra-high purity

50

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.



92/0028

15 April 1992

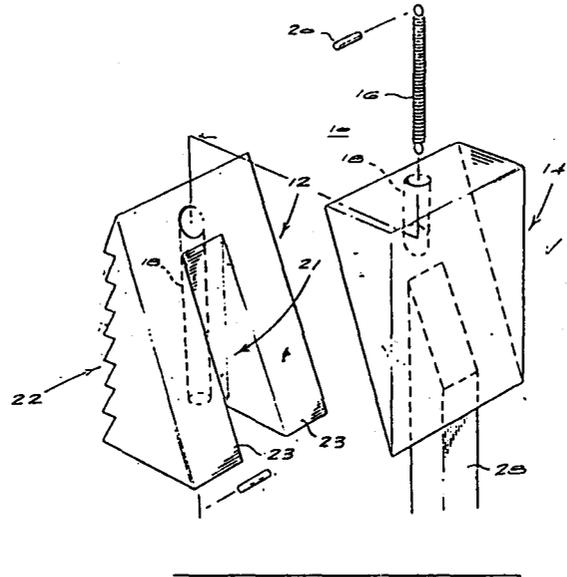
12 November 1992

Theodore Daniel Swemmer

Rockbolt anchoring head

18

This invention relates to a rockbolt anchoring head. A rockbolt anchoring head is a device used to provide a point anchor for the end of a rockbolt inserted into a drilled hole in a rock formation, typically in underground mining.



92/0029

21 April 1992

12 November 1992

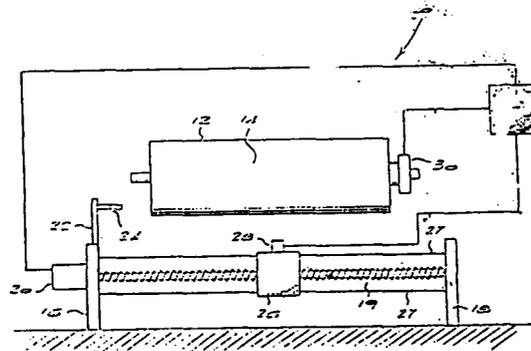
De Beers Industrial Diamond Division (Proprietary) Limited

Peter James Sergeant and Domingos Manuel Coelho Valbom

Crusher roll wear monitoring apparatus and method

23

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



92/0030

23 April 1992

10 June 1992

Shell Research Limited

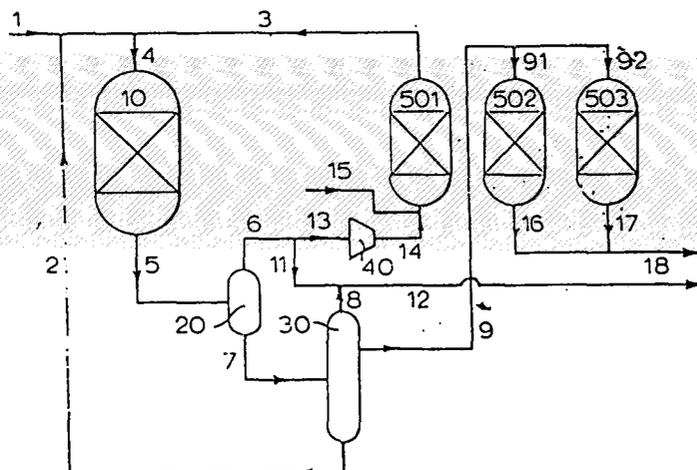
Swan Tiong Sie

A process for the production of isoparaffins

37

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

- Synthesis of a heavy paraffins-containing hydrocarbon mixture over a fischer-Tropsch catalyst;
- Conversion of at least part of the heavy paraffins-containing bi-functional isomerization/hydrocracking catalyst under isomerization/hydrocracking conditions;
- Separation of normal paraffins from at least part of the isoparaffins-containing product of step (b)
- Recycling at least part of the normal paraffins to step (b) and withdrawing $C_4 - C_7$ isoparaffins as a product from the process.



92/0031

27 April 1992

7 August 1992

Novo Invest Casino Development A G and Hans Werner Stahl

Game of skill and observation

25

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.

92/0032

23 April 1992

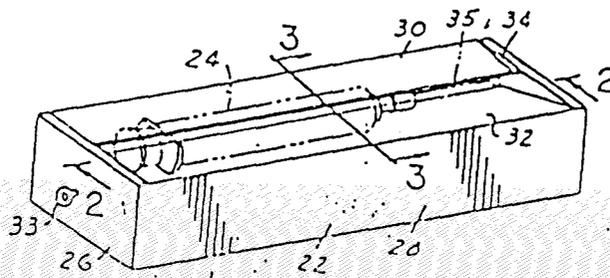
17 June 1992

Frederick J Sawaya

Disposable Sharp Instrument Container

25

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



92/0033

23 April 1992

5 November 1992

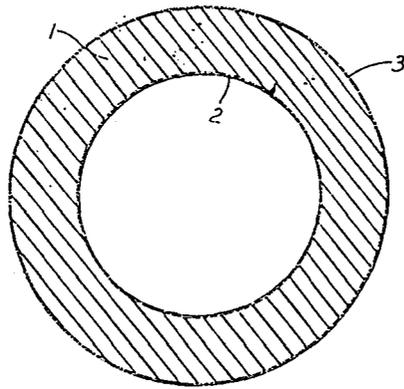
Imperial Chemical Industries PLC

Vernon Parker

Low energy fuse

17

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.



92/0035

30 April 1992

4 August 1992

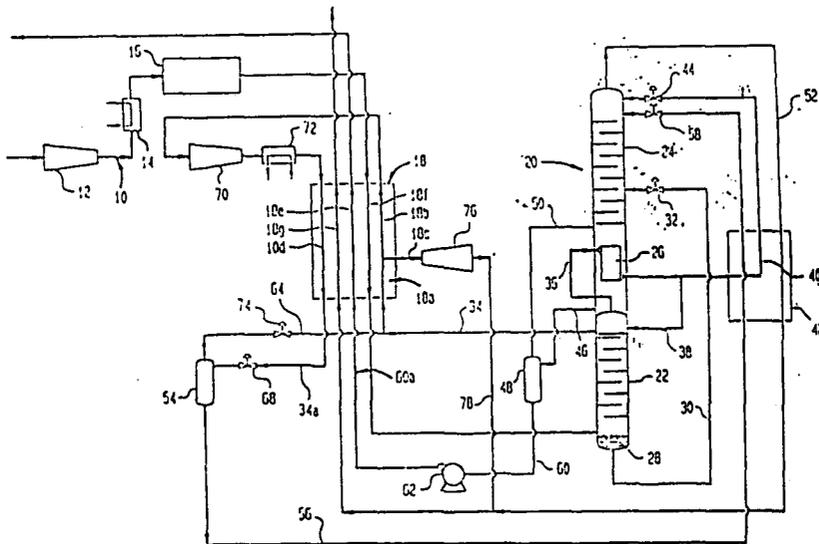
The BOC Group, Inc.

Robert A Mostello and Vito Klgys.

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

30

This invention relates to an air separation method for supplying gaseous oxygen in accordance with the requirements of a variable demand pattern.



92/0037

15 May 1992

4 August 1992

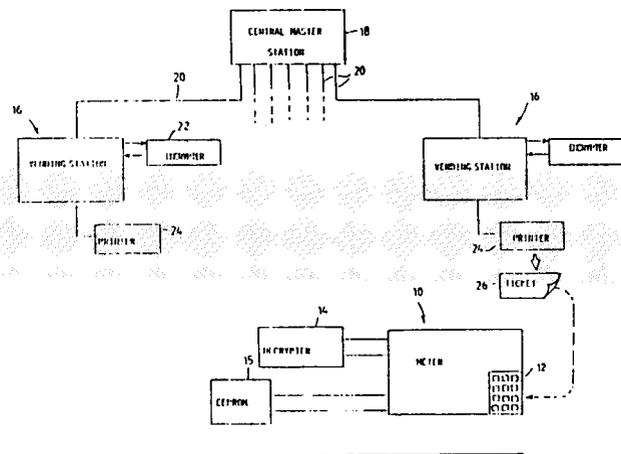
Plessey Tellumat South Africa Limited.

Constantin Michelakis and Gavin Roy Howard

System for the provision of a reticulated utility

33

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.



92/0040

1 June 1992

8 June 1992

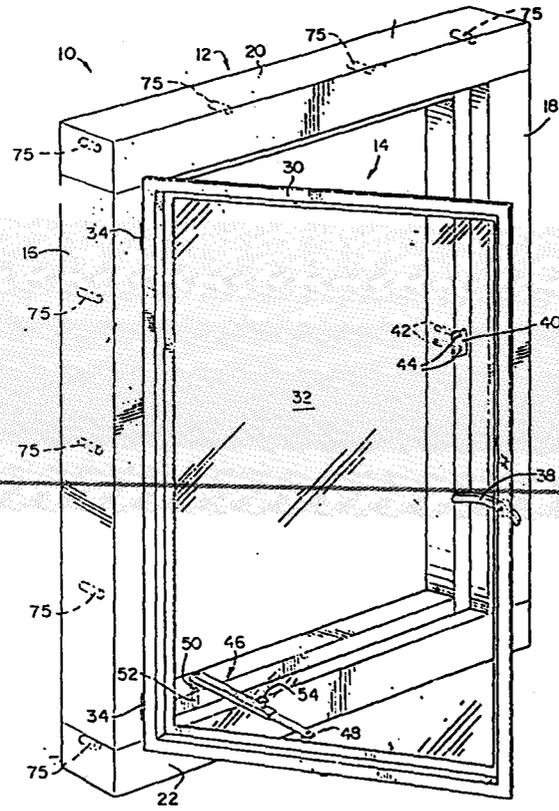
Betram (Proprietary) Limited

Lukas Pieter Fourie

Windows

33

This invention relates to window. It relates more specifically to a window frame and to a window assembly.



92/0044

10 June 1992

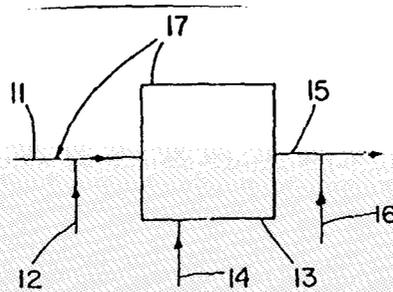
10 November 1992

James Arthur Mason

Method and apparatus for treating water and/or wastewater

33

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.



92/0045

15 June 1992

13 August 1992

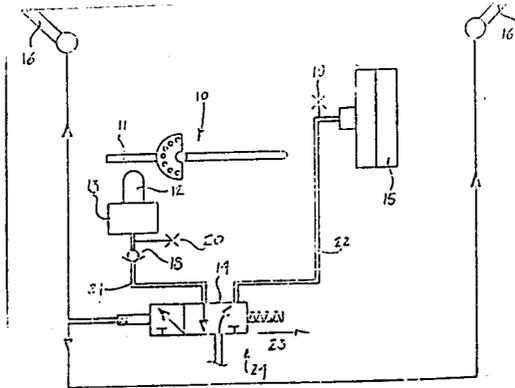
GDM Drilling Limited

Thomas Winston Thomas

Method and apparatus for preventing overwinding on a drilling machine

33

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 clutch between the drum and its associated drive.



92/0046

15 June 1992

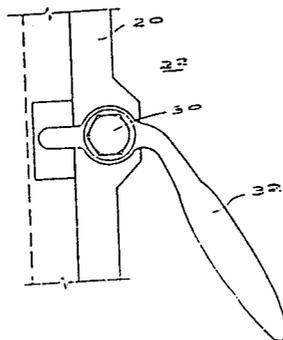
3 September 1992

Rowland Huttley Peart

A method and device for releasably securing a window in its closed condition

53

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 inseting 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.



92/0047

12 June 1992

17 September 1992

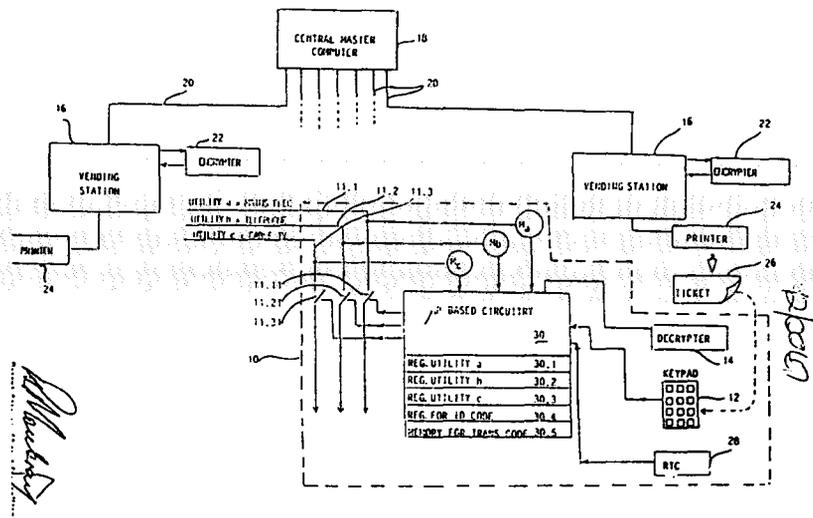
Plessey Tellumat South Africa Limited

Adriaan Adam van Niekerk

System for the provision of at least two reticulated utilities

34

There is disclosed and claimed a system of the kind disclosed in SA Patent application 90/8939 wherein each control device is adapted to received and accept a credit for at least two reticulated utilities (utilities a to c) and wherein each control device is provided with means M_1 to M_3 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

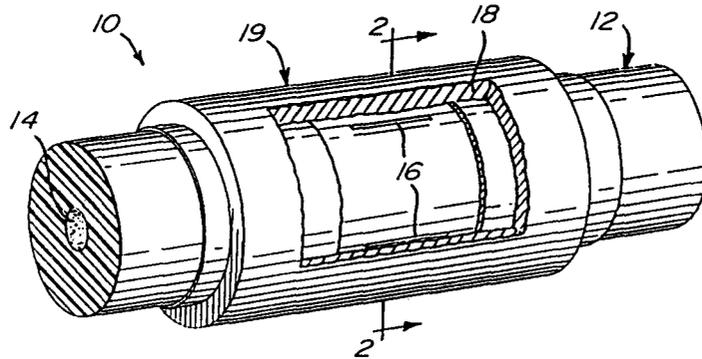
ICI Canada Inc.

James R. Simon

Shock tube having a reactive outer coating

21

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

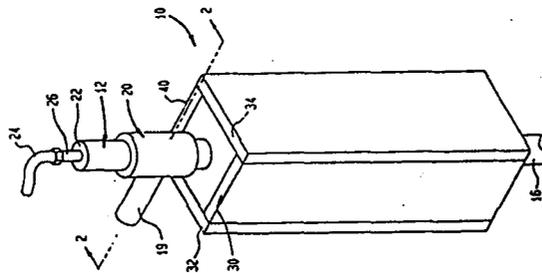
The BOC Group, INC.

Loo T Yap

Gas injection apparatus and method

22

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.



92/0051

26 June 1992

29 June 1992

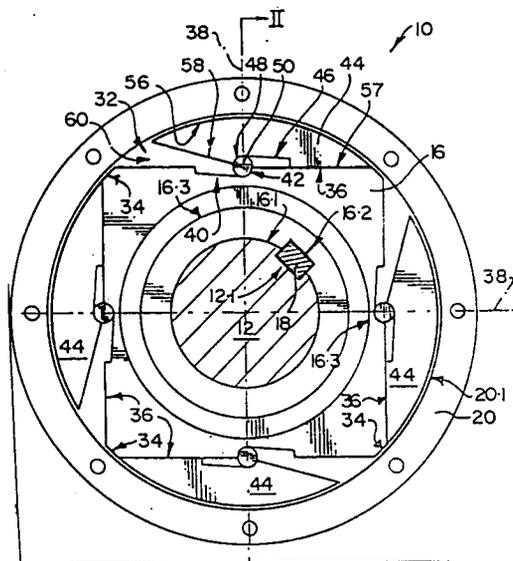
D & S Engineering CC

Richard Donald Alexander

Rotary braking device

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

34

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.

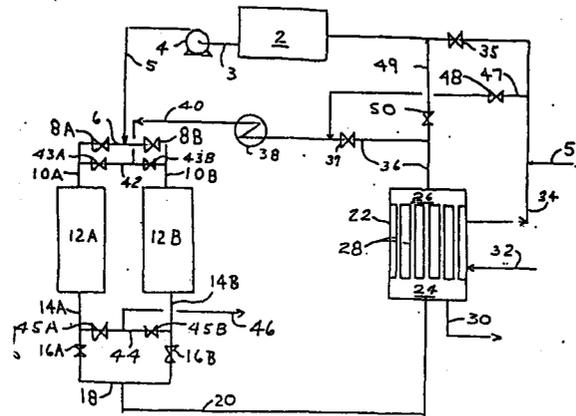


FIG 1

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.

92/0058

6 July 1992

16 September 1992

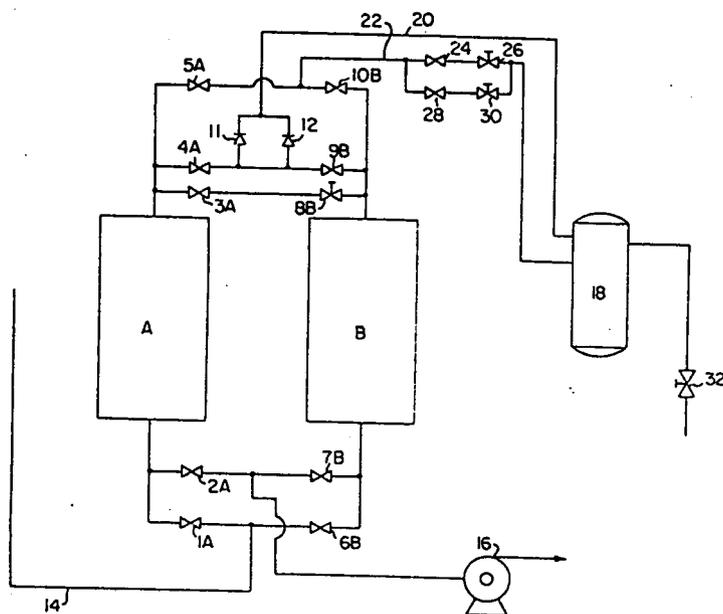
The BOC Group, Inc.

Eiji Hirooka, Jeremy Paul Wheatland and Shain-Jer Doong

Process for producing oxygen enriched product stream

39

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.

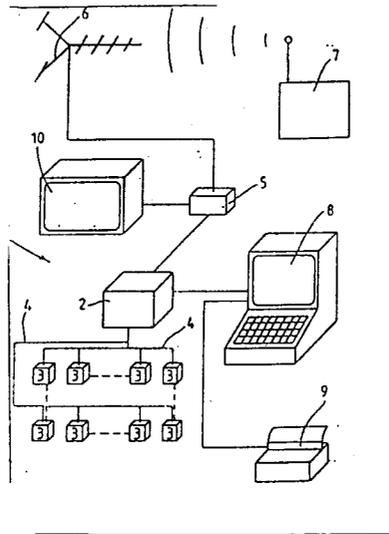
Kenneth Briggs

Accessory for an educational aid

30

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, pares the audiovisual component to visual display units located in a classroom and pares 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

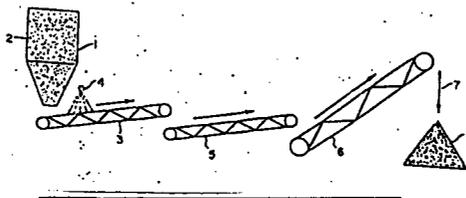
Newmont Mining Corporation and Newmont Gold Co.

James A Breirley and David L Hill

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

118

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 sulfidecontaining teachable ores of the pyntic, 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 suffidently high gold and silver content) and overburden ores having fairly low gold content and which may be considered waste ores.



92/0064

8 July 1992

1 September 1992

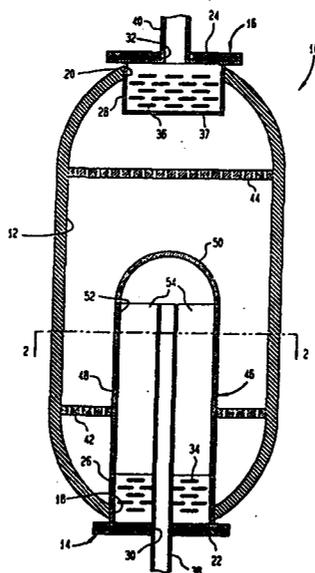
The BOC Group, Inc.

Karl O Toppel

Adsorbent vessel having a convective heat exchanger and flow developer

25

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.



92/0065

24 July 1992

7 January 1993

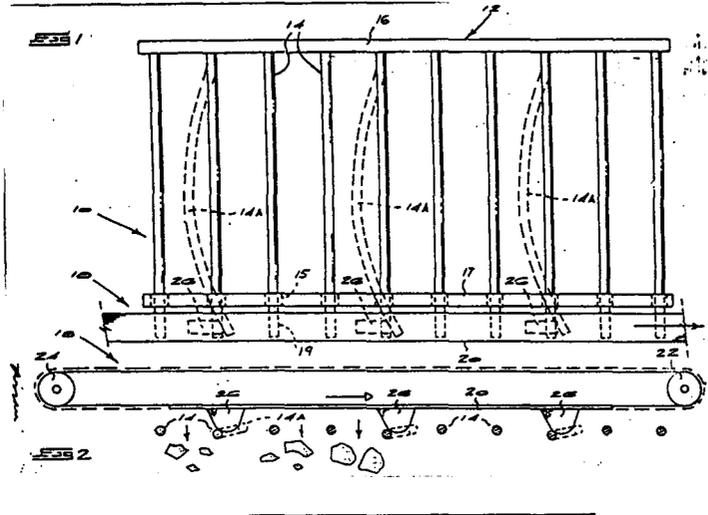
De Beers Industrial Diamond Division (Pty) Ltd.

Victor Emul Ross

Screen Deck

17

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



92/0066

24 July 1992

7 January 1993

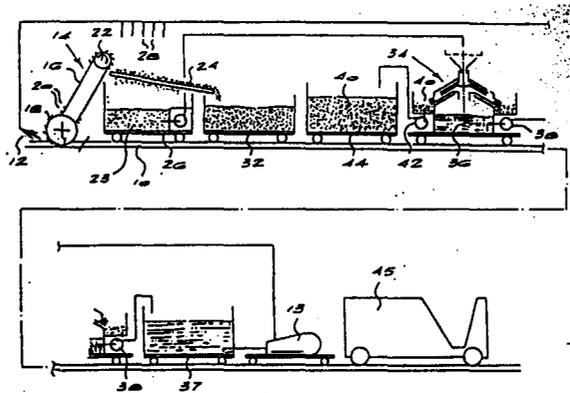
Advanced Mining Software Limited

Sarel Johannes Pretorius

Centrifugal Dewatering

33

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.



92/0067

24 July 1992

7 January 1993

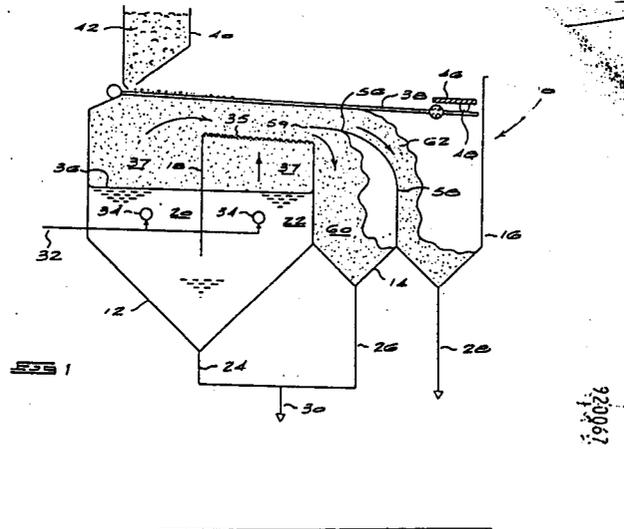
De Beers Industrial Diamond Division (Pty) Ltd.

Victor Emul Ross

Separation method and apparatus

23

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.



92/0069

5 August 1992

23 September 1992

ICI Canada Inc.

Clare T Aitken, Melvin A McNicol and Robert Lebrun

Vegetable Oil Emulsion Explosive

28

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

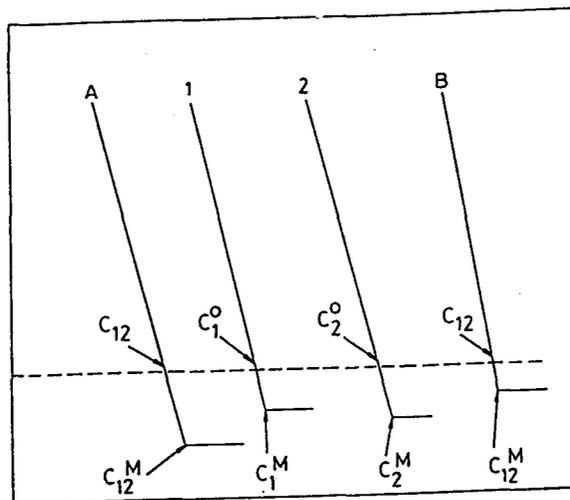
ICI Canada, Inc.

Arun Kumar Chattopadhyay

Emulsion Explosive

42

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



92/0075

27 August 1992

2 October 1992

Shell Research Limited

Jean-Pierre Gilson, Arend Hock, Jacobus Theodorus Daamen, Aan Hendrik Klazinga and Carolus Maria van Ballegoy

Hydroconversion Catalyst

28

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 an 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.

92/0076

27 August 1992

2 October 1992

Shell Research Limited

Carolus Maria van Ballegoy, Jean-Pierre Gulson, Arend Hock, Jacobus Theodorus Daamen and Aan Hendrik Klazinga

Process for the preparation of middle distillates

32

Middle distillates 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 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.

92/0077

27 August 1992

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.

31

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 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

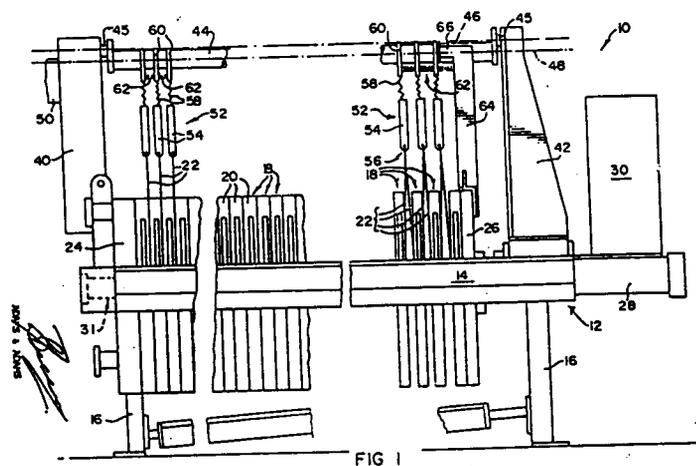
Envirotech (Pty) Ltd.

Peter Hume Glendinning

Filter press and method of operation

44

This invention relates to a filter press and to a method of operating a filter press.



92/0084

10 September 1992

8 January 1992

Siegbert Heinrich Bissbort and Henry John Davis

Substance or composition and uses thereof

50

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.

92/0085

10 September 1992

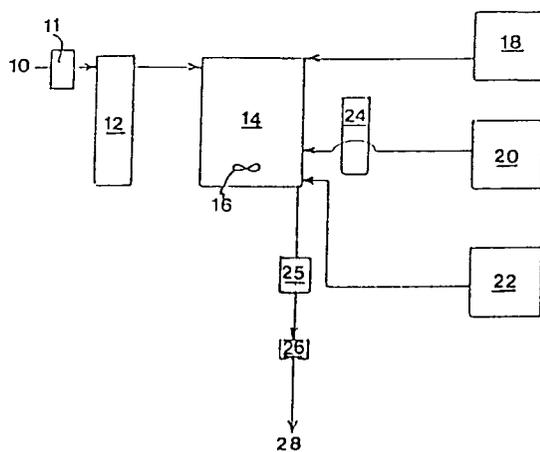
30 September 1992

Devandra Keshav Kala

Dialysis apparatus

19

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.



92/0092

23 September 1992

24 September 1992

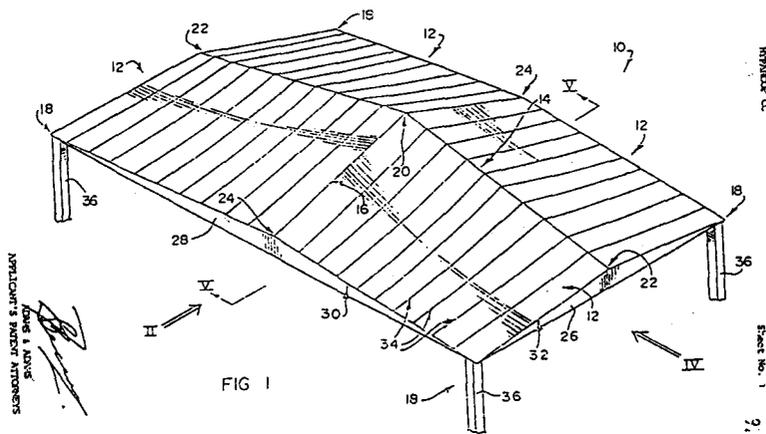
Hyparroof CC

Jacques Pienaar and Hendrik Johan Daling

Roof

26

This invention relates to a roof. It relates also to a method of forming a roof.



92/0097

28 September 1992

29 September 1992

Matthys Johannes van Zyl

Nicolaas Jacobus van Zyl

Building by means of slip forming shuttering

36

This invention relates to building by means of slip forming shuttering. It relates more specifically to a method of the invention.

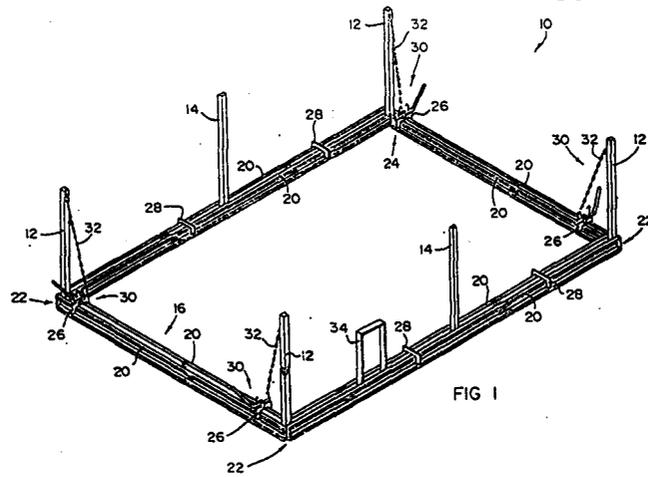


FIG 1

92/0100

2 October 1992

2 November 1992

South African Abattoir Corporation and Donald Evander Maciver

Ruslou Koorts

Method of and apparatus for restraining an animal to facilitate the slaughter thereof

31

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.

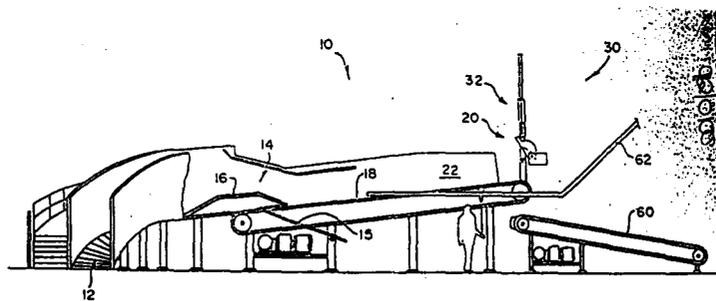


FIG 1

92/0101

2 October 1992

19 November 1992

Kenneth David Bogie and Rodney Stephen Elk

Water sanitisation

30

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 Weitun, Bernd Wetzel, Wolfgang Reuter, Hans Goeth and Uwe Lechner

Improvements relating to erythromycine derivatives

65

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