

Search history

Search 1: TAC=(electrolytic and (cartridge or cell) and electrode and membrane and ions and (barrier or plate) and permeable and (polymer or plastic) and brine) (Results 8)

1) Family number: 4237028 (US4210501A)

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Title: Generation of halogens by electrolysis of hydrogen halides in a cell having catalytic electrodes bonded to a solid polymer electrolyte

Abstract: A halogen such as chlorine is produced by the electrolysis of an aqueous solution of a hydrogen halide such as hydrochloric acid in an electrolysis cell having anolyte and catholyte chambers separated by a solid polymer electrolyte in the form of a stable, selectively permeable, hydrated ion exchange membrane. Catalytic electrodes in the form of fluorocarbon bonded, thermally stabilized, reduced oxides of platinum group metals are bonded to at least one surface of the membrane and an aqueous hydrochloric acid solution is brought in contact with the bonded anode to generate chlorine at the anode and hydrogen at the cathode.

Classifications:

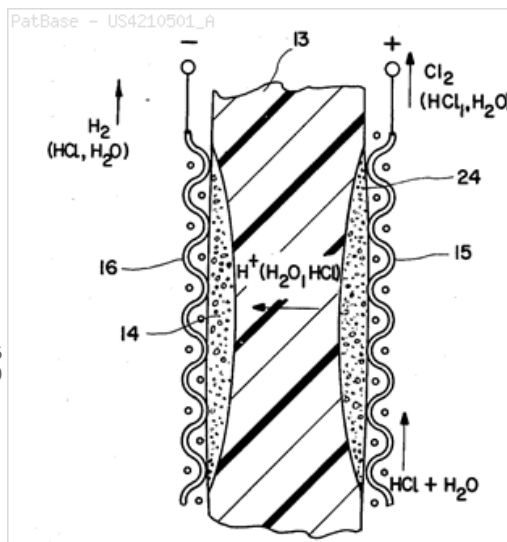
International (IPC 8-9): B01J23/40 B01J23/42 B01J23/44 B01J23/46 B01J23/64 B01J23/648 B01J35/10 B01J37/08 B01J37/12 B01J37/16 C25B1/24 C25B1/26 C25B1/46 C25B11/00 C25B11/04 C25B11/06 C25B11/08 C25B11/10 C25B13/00 C25B9/00 C25B9/08 C25B9/10 (Advanced/Invention); B01J23/40 B01J23/42 B01J23/44 B01J23/46 C25B13/00 C25B9/00 (Advanced/Non-invention); B01J23/40 B01J23/42 B01J23/44 B01J23/46 B01J23/54 B01J35/00 B01J37/00 C25B1/00 C25B11/00 C25B13/00 C25B9/00 C25B9/06 (Core/Invention); C01B C25B (Subclass/Invention)

International (IPC 1-7): B01J23/40 B01J23/42 B01J23/44 B01J23/46 B01J23/54 B01J23/56 B01J23/64 B01J35/00 B01J35/10 B01J37/00 B01J37/08 B01J37/12 B01J37/16 C01B7/00 C01B7/06 C07B C08J5/22 C25B1/14 C25B1/16 C25B1/24 C25B1/26 C25B1/34 C25B1/46 C25B11/00 C25B11/02 C25B11/03 C25B11/04 C25B11/06 C25B11/08 C25B11/10 C25B11/20 C25B13/00 C25B13/08 C25B9/00 C25B9/04 C25C7/04

CPC: Y10S204/03 C25B1/26 C25B1/46 C25B9/10 C25B11/0489 C25B1/24

European: C25B1/24 C25B1/26 C25B1/46 C25B11/04D4D C25B9/10

US: 204/128 204/129 204/253 204/282 204/283 204/291 204/292 204/294 204/296 204/98 204/DIG.3 205/521 205/525 205/526 205/620 205/624 502/185 502/325 502/339

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US19880224607 19880727

Probable Assignee: ELGARD A CORP OF DE CORP

Assignee(s): (std): GEN ELECTRIC ; ORONZIO DE NORA PERMELEC SPA ; ORONZIO DE NORA IMPIANTI ELLET ; NORA PERMELEC DE SPA ; ORONZIO DE NORA IMPIANTI ; ORONZIO DE NORA PERMELEC S P A ; PERMELEC NORA SPA ; PERMELEC SPA NORA

Assignee(s): ORONZIO DENORA IMPIANTI ELETTRICIMICI SPA ; ORONZIO DENORA IMPIANTI ELECTROCHIMICI A CORP OF I ; ORONZIO DENORA IMPIANTI ELECTROCHIMICI A CORP OF ITALY SPA ; ORONZIO DENORA IMPIANTI ELLETROCHIMICI SPA ; ORONZIO DENORA IMPIANTI ELECTROCHIMICI SPA ; ORONZIO DE NORA TECHNOLOGIES BV ; ORONZIO DE NORA TECHNOLOGIES INC ; COKER THOMAS G ; DE NORA PERMELEC A CORP OF ITALY SPA ; DE NORA PERMELEC S P A TE MILAAN ITALIE ; DE NORA PERMELEC SPA ; DEMPSEY RUSSELL M ; GENERAL ELECTRIC CO SCHENECTADY N Y US ; GENERAL ELECTRIC COMPANY ; ORONZIO DE NORA IMPIANTI ELETTRICIMICI SPA ; GENERAL ELECTRIC CO US ; GENERAL ELECTRIC COMPANY ; ORONTSUIO DE NORA IMUPIANCHI ERETSUTOROSHIMICHI SPA ; GENERAL ELECTRIC COMPANY TE SCHENECTADY NEW YORK VER ST V AM ; GENERAL ELECTRIC CO ; LACONTI ANTHONY B ; GENERAL ELECTRIC CO TE SCHENECTADY NEW YORK VER ST V AM ; GENERAL ELECTRIC CO ; GENERAL ELECTRIC CY ; ORONZIO DE NORA IMPIANTI ELLETROCHIMICI S P A ; GENERAL ELECTRIC COMPANY ; ORONZIO DE NORA IMPIANTI ELETTRICIMICI S P A ; GENERAL ELECTRIC CO ; ELGARD CORP ; GEN ELECTRIC CO ; GENERAL ELECTRIC ; GEC ; GEC US ; GENERAL ELECTRIC CO A CORP OF NY ; ELGARD A CORP OF DE CORP ; FRAGALA ANTHONY R

Inventor(s): (std): DEMPSEY RUSSELL M ; COKER THOMAS G ; LACONTI ANTHONY B ; FRAGALA ANTHONY R ; FRAGALA A R ; LACONTI A B ; COKER T G ; DEMPSEY R M ; LA CONTI ANTHONY B ; ANSONII BEISHIRU RAKONTEI ; TOOMASU JIYOOJI KOUKAA ; RATSUSERU MEISON DENPUSHII ; DEMPSEY RUSSELL MASON ; CONTI A ; MASON DEMPSEY RUSSELL ; GEORGE COKER THOMAS ; BASIL LA CONTI ANTHONY ; CONTI ANTHONY BASIS LA ; DEMPSEY RUSSELL MASON ; COKER THOMAS GEORGE ; CONTI ANTHONY BASIL LA ; KONTI ANTONI BAZIL LA ; FRAGALA ANTONI ROBERT ; DEMPSEJ RASSEL MEJSON ; COKER TOMAS DZHORDZH ; ANSONII ROBAATO FURAGARA ; DEMPSEY THOMAS RUSSELL MASON ; CUKOR THOMAS GEORGE ; LA CONTI ANTONY BASIS ; TOOMASU JOOJI KOKAA ; LACONTI ANTHONY BASIL ; FRAGALA ANTHONY ROBERT ; DEMPSEY RUSSEL M ; FRAGALA A ; COKER T ; DEMPSEY R ; LACONTI A ; LA CONTI ANTHONY BASIL

Inventor(s): A R FRAGALA ; LA CONTI ANTHONY B US ; DEMPSEY RUSSEL M US ; COKER THOMAS G US ; FRAGALA ANTHONY R US ; LACONTI ANTHONY B US ; DEMPSEY RUSSELL M US ; THOMAS GEORGE COKER ANTHONY BASIL LACONTI ANTHONY ROBERT FRAGALA ET RUSSELL MASON DEMPSEY ; ANTHONY BASIL LACONTI RUSSELL MASON DEMPSEY ET THOMAS GEORGE COKER ; ANTHONY BASIL LACONTI THOMAS GEORGE CUKOR ET THOMAS RUSSELL MASON DEMPSEY ; LA CONTI ANTHONY BASIL LYNNFIELD MASS US ; T G COKER ; A B LACONTI ; R M DEMPSEY ; TG COKER ; LACONTE AB DEMPSEY RM AND COKER T G ; COKER T G ET AL ; LA CONTI ANTHONY BASIL LYNNFIELD MASS ; DEMPSEY RUSSELL MASON HAMILTON MASS ; COKER THOMAS GEORGE WALTHAM MASS ; FRAGALA ANTHONY ROBERT NO ANDOVER MASS ; CONTI ANTHONY BASIL LA LYNNFIRLD MASS ; LA CONTI ANTONY BASIS LYNNFIELD MASS ; AB LACONTI ; RM DEMPSEY ; LA CONTI ANTONY BASIS LYNNFIELD MASS US ; LA CONTI ANTHONY BASIS ; COKER THOMAS GEORGE WALTHAM MASS US ; FRAGALA ANTHONY ROBERT NO ANDOVER MASS US ; CONTI ANTHONY BASIL LA LYNNFIRLD MASS US ; DEMPSEY RUSSELL MASON HAMILTON MASS US ; ROBERT FRAGALA ANTHONY ; ANTHONY ROBERT FRAGALA ; ANTHONY BASIL LA CONTI ; THOMAS GEORGE COKER ; RUSSELL MASON DEMPSEY ; ANTHONY BASIL LACONTI ; RUSSEL MASON DEMPSEY ; ANTHONY BASIL LACONTI THOMAS GEORGE CUKOR ET THOMA ; ANTHONY BASIL LACONTI RUSSELL MASON DEMPSEY ET THO ; THOMAS GEORGE COKER ANTHONY BASIL LACONTI ANTHONY

Agent(s): CA; DAVIES COLLISON CAVE PTY LTD; ECKERSLEY RAYMOND A

2) Family number: 29362234 (US4340452A)

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Title: Novel electrolysis cell

Abstract: An electrolysis cell comprising a cell housing containing at least one set of gas and electrolyte permeable electrodes, respectively an anode and a cathode separated by an ion permeable diaphragm or membrane, means for introducing an electrolyte to be electrolyzed, means for removal of electrolysis products and means for impressing an electrolysis current thereon, at least one of the electrodes being pressed against the diaphragm or membrane by a resiliently compressible layer co-extensive with the electrode surface, said layer being compressible against the diaphragm while exerting an elastic reaction force onto the electrode in contact with the diaphragm or membrane at a plurality of evenly distributed contact points and being capable of transferring excess pressure acting on individual contact points to less charged adjacent points laterally along any axis lying in the plane of the resilient layer whereby the said resilient layer distributes the pressure over the entire electrode surface, the said resilient layer having an open structure to permit gas and electrolyte flow therethrough and a novel method of generating halogen by electrolysis of a halide containing electrolyte.

Classifications:

International (ipc 8-9): C25B1/24 C25B1/46 C25B11/02 C25B11/03 C25B11/04 C25B13/08 C25B9/00 C25B9/04 C25B9/08 C25B9/10 (Advanced/Invention); C25B1/00 C25B11/00 C25B13/00 C25B9/00 C25B9/04 C25B9/06 (Core/Invention); C25B (Subclass/Invention)

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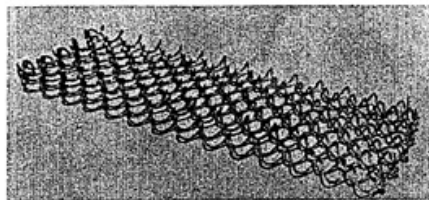
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US: 204/129 204/252 204/263 204/265 204/266 204/282 204/283 204/288 204/290.11 204/290.13 204/290.15 204/290R 204/292 204/294 204/296 204/498 205/480 205/513 205/517 205/523 205/524 205/525 205/531 205/620 205/624

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: ELGARD A CORP OF DE CORP

Assignee(s): (std): MARTELLI GIAN N ; NORA ORONZIO IMPIANTI ELETTROC ; ORONZIO DE NORA IMPIANTE ELECT ; ORONTSUIO DE NOORA SA ; ORONTSUIO DE NORA IMUPIANTEI E ; ORANZIO DE NORA IMPIANTI ELETT ; NORA ORONZIO DE ; NIDOLA ANTONIO ; NORA IMPIANTI ELETTROCHIMICI S P A ORONZIO DE ; ORANZIO DE NORA IMPIANTI ELETTROCHIMICI SPA IT ; ORONTSIO DE NORA IMPIANTI ELEKTROKHMICHI S P A ; NORA IMPIANTI ELETTROCHIMICI SPA ORONZIO DE ; PERMELEC NORA SPA ; ORONZIO DE NORA IMPIANTE ELETT ; ORONZIO DE NORA SA ; ORONZIO DE NORA IMPIANTI ; ORONZIO NORA DE ; ORONZIO DENORA TECHNOLOGIES IN ; ORONZIO DE NORA IMPIANTI ELETTROCHIMICI S P A ; ORONZIO DE NORA IMPIANTI ELETTROCHIMICI ; ORONZIO DE NORA IMPIANTI ELETTROCHIMICI SPA ; ORONZIO DE NORA IMPIANTI ELETTROCHIMICI S P A TE M ; ORONZIO DE NORA IMPIANTI ELETTROCHIMICI S P A ; ORONZIO DE NORA IMPIANTI ELETTROCHIMICI S P A IT ; ORONZIO DE NORA IMPIANTI ELETTROCHIMICI SPA IT ; ORONZIO DE NORA IMPIANTI ELETTROCHIMICI S P A MILA ; PERMELEC SPA NORA ; ORONZIO DE NORA IMPIANTI ELLET ; DE NORA PERMELEC S P A MAILAND MILANO IT

Assignee(s): DE NORA PERMELEC S P A TE MILAAN ITALIE ; ELGARD A CORP OF DE CORP ; DE NORA PERMELEC S P A ; DE NORA TECNOLOGIE ELETTROCHIMICHE SPA ; DE NORA SPA ; ORONZIO DE NORA IMPIANTI ELETTRO ; ORONZIO DE NORA IMPIANTI ELECTROCHIMICI S P A ; ORONZIO DENORA TECHNOLOGIES INC A CORP OF DE ; ORONZIO DE NORA IMPIANTI ELECTROCHIMISI ; ORONZIO DE NORA IMPIANZI ELETTROCHIMICI S P A ; ORONZIO DE NORA IMPIANTE ELETTROCHIMICI S P A ; ORONZIO DE NORA IMPIANTI ELLETTTRICHIMICI SPA IT ; ORONZIO DE NORA IMPIANZI ELETTROCHIMICI S P A IT ; ORONZIO DE NORA IMPIANTI ELETTROCHIMICI S P A MILAN IT ; ORONZIO DE NORA IMPIANTI ELETTROCHIMICI S P A MAILAND MILANO IT ; ORONZIO DE NORA IMPIANTI ELETTROCHIMICI S P A TE MILAAN ITALIE ; ORONZIO DE NORA IMPIANTI ELETTROCHIMICI S P A TE MILAANITALIEE ; ORONZIO DE NORA IMPIANTI ELLETTTRICHIMICI IT SPA ; ORONZIO DE NORA IMPIANTE ELECTRO CHIMICI SPA ; ORONZIO DE NORA IMPIANTI ELETTROCHIMISI SPA ; UH DENORA TECHNOLOGIES SRL ; ORONZIO DE NORA IMPIANTI ELECTROCHIMICI SPA ; ORONZIO DE NORA TECHNOLOGIES BV ; ORONZIO DE NORA IMPIANTI ELETTROCHIMICI SPA ; ORONZIO DE NORA TECHNOLOGIES INC ; ORONZIO DENORA TECHNOLOGIES INC ; ORONZIO DENORA IMPIANTI ELETTROCHIMICI S P A ; ORONZIO DE NORA IMPIANTI ELETTROCHIMICI S A ; ORONZIO DE NORA S A ; ORONZIO DE NORA IMPIANTE ELECTRO CHIMICI S P A ; ORONZIO DE NORA ; ORONTSUIO DE NORA IMUPIANTEI ERETSTOROKIMICHI SPA ; MELLON BANK NA AGENT AS ; NORA IMPIANTI ELETTROCHIMICI S P A ; ORONZIO DE NORA IMPAATI ELETTROCHIMICI SPA IT ; NORA IMPIANTI ELETTROCHIMICI SPA ; NORA IMPIANTI ELETTROCHIMICI ORONZIO DE SPA ; MELLON BANK NA ; DE NORA PERMELEC SPA ; ELGARD CORP ; ELTECH SYSTEMS CORP ; DE NORA IMPIANTI SPA ; DE NORA ORONZIO ; DE NORA ORONZIO IMPIANTI ELETTROCHIMICI S P A ; DE NORA ORONZIO IMPIANTI ELETTROCHIMICI SPA ; DE NORA PERMELEC A CORP OF ITALY SPA

Inventor(s): (std): LEISS KURT ; DE NORA ORONZIO ITAT ; NORA ORONTSIO DE ; DE NORA O ; ORONTSIO DE NORA ; JIYAN NIKORA MARUTETSURI ; ANTONIO NIDORA ; ORONJIO DO NORA ; GIAN NIKORA MARUTETSURI ; MARTELLI GIAN NICOLA ; NIDOLA ANTONIO ; DE NORA ORONZIO ; ORONZIO DE NORA ; DE NORA ORINZIO ; NORA O DE ; NORA ORONZIO DE ; O DE NORA ; NORA ORONZIO DE MAILAND MILANO IT ; DE NORA ORONZIO IT ; ORONTSIO DE NORA IT ; MARTELLI GIAN N ; DENORA ORONZIO ; DE NORA

Inventor(s): NORA ORONZIO DE IT ; DE NORA OROZIO ; GIAN NICOLA MARTELLI ; ANTONIO NIDOLA

Agent(s): SPRUSON AND FERGUSON ; MACRAE AND CO ; REINHOLD COHN AND PARTNERS

Designated states: AT BE CH DE FR GB IT LI NL SE

3) Family number: 30065251 (US2003006144A)

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Title: ELECTROLYSIS CELL FOR GENERATING CHLORINE DIOXIDE

Abstract: A method for making chlorine dioxide, by passing an aqueous feed solution comprising sodium chlorite into a non-membrane electrolysis cell comprising an anode and a cathode, adjacent to the anode, while flowing electrical current between the anode and the cathode to electrolyze the aqueous feed solution and convert the halogen dioxide salt to halogen dioxide. The anode is preferably a porous anode through which the aqueous feed solution passes to maximize the conversion of chlorite to chlorine dioxide.

Classifications:

International (IPC 8-9): A47L15/00 A47L15/42 A47L15/44 A61L2/03 A61L2/18 B01D39/16 B01D39/20 B08B3/00 B08B7/04 B08B9/20 C01B7/00 C01B7/01 C02F1/42 C02F1/46 C02F1/461 C02F1/467 C02F1/76 C11D1/72 C11D11/00 C11D17/00 C11D17/04 C11D17/06 C11D17/08 C11D3/02 C11D3/06 C11D3/08 C11D3/10 C11D3/20 C11D3/33 C11D3/37 C11D3/386 C11D3/39 C11D3/395 C11D3/48 C11D3/50 C11D7/10 C25B1/26 C25B1/30 C25B11/03 C25B11/04 C25B15/00 C25B15/02 C25B15/08 C25B9/00 C25B9/06 C25D17/00 D06F35/00 D06F39/02 E04H4/12 (Advanced/Invention); C02F1/28 C02F1/42 C02F1/461 C02F1/467 C02F9/00 C25B1/26 (Advanced/Non-invention); A47L15/00 A47L15/42 A61L2/02 C02F1/461 C11D11/00 C11D17/00 C11D3/02 C11D3/38 C11D3/395 C25B1/00 C25B15/00 D06F35/00 (Core/Invention); C02F1/28 C02F1/42 C02F9/00 (Core/Non-invention)

International (IPC 1-7): A47L0/00 A47L15/00 A47L15/42 A47L15/44 A61L2/18 B01D39/16 B01D39/20 B08B7/04 B08B9/20 B23H11/00 C01B7/00 C01B7/01 C02F1/42 C02F1/46 C02F1/461 C02F1/467 C02F1/76 C11D1/00 C11D1/72 C11D17/00 C11D17/04 C11D17/06 C11D17/08 C11D3/02 C11D3/06 C11D3/08 C11D3/10 C11D3/20 C11D3/33 C11D3/37 C11D3/386 C11D3/395 C11D3/48 C11D3/50 C25B1/24 C25B1/26 C25B11/03 C25B11/04 C25B15/00 C25B15/02 C25B15/08 C25B9/00 C25B9/04 C25C1/24 C25C7/00 C25D17/00 C25F7/00 D06F35/00 D06F39/02 E04H4/12

CPC: A47L15/4208 A47L15/4445 Y02W10/37 C02F2201/008 C02F2201/009 A47L15/0002 C02F2201/4613 C02F2209/05 D06F35/001 A47L15/4238 A47L2601/06 A61L2/035 C02F1/4674 C02F2201/46165 C11D3/046 C11D3/3953 C11D3/3956 C11D11/0023 C11D11/0064 C11D11/007 C11D17/003 D06F35/003 D06F35/004 C02F1/46104 C02F1/283 C02F1/42 C02F9/00 C02F2001/46133 C02F2001/46161 C02F2101/103 C02F2201/4611 C02F2201/4618 A47L15/0015 A47L15/4291 Y02B40/44 C02F1/001 C02F2001/422 C02F2001/425 C02F2001/46138 C02F2001/46152 C02F2103/026 C02F2103/42 C02F2201/003 C02F2201/46115 C02F2209/42 C02F2303/04 C02F2307/04 C02F2307/06 A61L2/18 A61L2202/11 C11D3/386 Y02A20/212

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Family:

Publication number	Publication date	Application number	Application date
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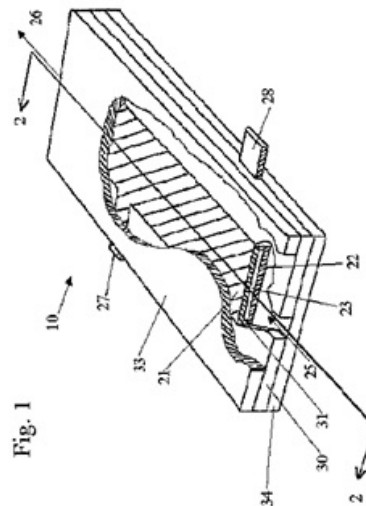


Fig. 1

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Probable Assignee: HELEN OF TROY LTD

Assignee(s): (std): BALLAS JULIA E ; BRETL DONALD S ; COLLIAS DIMITRIS I ; COLLIAS DIMITRIS IOANNIS ; DRZEWIECKI PAUL J ; PROCTER AND GAMBLE ; MOESE ROSA LAURA ; RASMUSSEN CRAIG MERILLAT ; NESBITT DANIEL FREDERICK ; PRICE KENNETH N ; SCHEPER WILLIAM M ; PROCTER AND GAMBLE CO ; SHOWELL MICHAEL S ; HONG CHARLES A ; MITCHELL MICHAEL D ; RASMUSSEN CRAIG M ; TREMBLAY MARIO ELMEN ; SMITH GRAEME DOUGLAS TELFER ; TREMBLAY MARIO E ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; WAUGH KEVIN L ; CHIAO I CHUN J ; PUR WATER PURIFICATION PROD ; MITCHELL MICHAEL DONOVAN ; NESBITT DANIEL F

Assignee(s): HELEN OF TROY LTD ; HONG CHARLES ANDREW ; CHIAO I CHUN JENNIFER ; WAUGH KEVIN LINDSEY ; SHOWELL MICHAEL STANFORD ; TREMBLAY MARIO ELAM ; SCHEPER WILLIAM MICHAEL ; PRICE KENNETH NATHAN ; PUR WATER PURIFICATION PRODUCTS INC ; DRZEWIECKI PAUL JOSEPH ; BRETL

Inventor(s): (std): DONALD STEPHEN ; BALLAS JULIA ELIZABETH
HONG CHARLES ANDREW ; BRETL DONALD STEPHEN ; RASMUSSEN CRAIG MERILLAT ; RASMUSSEN
CRAIG M ; COLLIAS DIMITRIS I ; MITCHELL MICHAEL D ; NESBITT DANIEL F ; SMITH GRAEME
DOUGLAS TELFER ; MOESE ROSA LAURA ; NESBITT DANIEL FREDERICK ; TREMBLAY MARIO ELAM ;
COLLIAS DIMITRIS IOANNIS ; MITCHELL MICHAEL DONOVAN ; CRAIG MERILLAT RASMUSSEN ; MIC
TREMBLAY MARIO ELAM COLLIA ; I CHUN JENNIFER CHIAO ; KEVIN LINDSEY WAUGH ; CA HUN ;
KENNETH NATHAN PRICE ; MICHAEL STANFORD SHOWELL ; ME TREMBLAY ; CM RASMUSSEN ; MARIO
ELAM TREMBLAY ; DIMITRIS IOANNIS COLLIAS ; M E TREMBLAY C M RASMUSSEN C A HUN ; WILLIAM
MICHAEL SCHEPER ; PAUL JOSEPH DRZEWIECKI ; DANIEL F NESBITT ; MICHAEL DONOVAN MITCHELL ;
JULIA ELIZABETH BALLAS ; HONG CHARLES A ; BRETL DONALD S ; PRICE KENNETH N ; SCHEPER
WILLIAM M ; TREMBLAY MARIO E ; DRZEWIECKI PAUL J ; TREMBLAY MARIO ; SCHEPER WILLIAM ;
PRICE KENNETH ; BALLAS JULIA ; IOANNIS COLLIAS DIMITRIS ; MERILLAT RASMUSSEN CRAIG ; ELAM
TREMBLAY MARIO ; DONOVAN MITCHELL MICHAEL ; CHIAO I CHUN J ; SHOWELL MICHAEL S ; BALLAS
JULIA E ; WAUGH KEVIN L ; HUN M E TREMBLAY C M RASMUSSEN ; MARIO ELMEN TREMBLAY ; HUN C A
; RASMUSSEN C M ; TREMBLAY M E ; WAUGH KEVIN LINDSEY ; SHOWELL MICHAEL STANFORD ;
BALLAS JULIA ELIZABETH ; CHIAO I CHUN JENNIFER ; DRZEWIECKI PAUL JOSEPH ; TREMBLAY MARIO
ELMEN ; SCHEPER WILLIAM MICHAEL ; PRICE KENNETH NATHAN

Inventor(s): TREMBLAY MARIO ELAM COLLIAS DIMITRIS IOANNIS... ; TREMBLAY MARIO ELAM COLLIAS DIMITRIS
IOANNIS NESBI ; HONG CHARLES ; RASMUSSEN CRAIG ; MITCHELL MICHAEL ; COLLIAS DIMITRIS ;
BRETL DONALD ; SHOWELL MICHAEL ; WAUGH KEVIN ; CHIAO I CHUN ; DRZEWIECKI PAUL ;
TREMBLAY MARIO ELAM COLLIAS DIMITRIS IOANNIS NESBITT DANIEL F ; M E TREMBLAY ; C M
RASMUSSEN ; C A HUN ; CHARLES ANDREW HONG ; DONALD STEPHEN BRETL

Agent(s): MBM INTELLECTUAL PROPERTY LAW LLP; LEDGLEY CYNTHIA J; DIMOCK STRATTON LLP; YORQUEZ
RAMIREZ MARIA ISABEL; CLEMO NICHOLAS GRAHAM; TANI YOSHIKAZU; ABE KAZUO; SOGA
MICHITERU; SOGA MICHIHARU; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION; THE
PROCTER AND GAMBLE COMPANY, INTELLECTUAL PROPERTY DIVISION; PROCTER AND GAMBLE CO
INTELLECTUAL PROPERTY DIVISION WEST BLDG; WAUGH KEVIN L; ZERBY KIM W; MILLER STEVEN W;
STEVEN W; KEVIN L; KIM W; LEONARD W; LARRY L; ZERBY KIM WILLIAM; MCCONIHAY JULIE A;
ROBINSON IAN S; IAN S; JULIE A; KIM WILLIAM; DINSMORE AND SHOHL LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK
DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ
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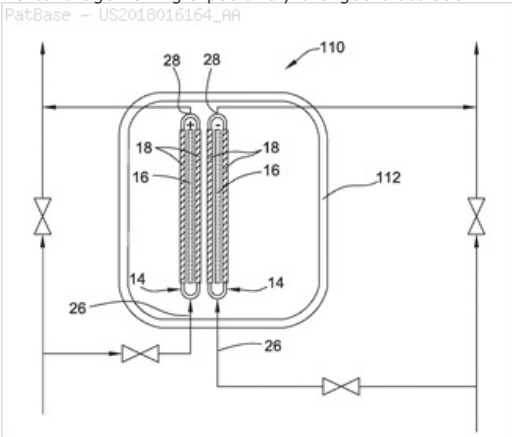
4) Family number: 63123421 (US2018016164A) PatBase

Title: ELECTROLYTIC CARTRIDGE, SYSTEMS AND METHODS OF USING SAME

Abstract: Electrolytic cartridges for, systems for, and methods of electrolyzing a brine solution of water and an alkali salt to produce acidic electrolyzed water and alkaline electrolyzed water are provided. The system includes an internal chamber for receiving the brine solution and at least two electrolytic cartridges immersed in a brine bath. Each electrolytic cartridge includes an electrode, an ion selective membrane disposed on a side of the electrode so as to define a space adjacent to at least a portion of the electrode, a permeable insert covering the ion selective membrane on a side opposite the space, and a bonding plate disposed on the permeable insert on a side opposite the side facing the ion selective membrane. The methods recycle at least a portion of alkaline electrolyzed water into the feed of a cartridge having a positively charged electrode.

Classifications:

International (IPC 8-9): C02F1/46 C02F1/461 C02F1/467 C02F1/469
C25B1/00 C25B3/00 C25B9/08 (Advanced/Invention);
C02F1/467 C02F1/469 C02F1/66 C25B9/08 (Advanced/Non-invention);
C02F1/461 (Core/Invention)
CPC: C02F1/4693 C02F2201/46115 C02F1/4618 C02F1/4674
C25B9/08 C02F2001/46157 C02F2201/004 C02F2201/006
C02F2201/007 C02F2201/4618 C02F1/66
US: 1/1 205/556



Family:

Publication number	Publication date	Application number	Application date
AU2016215195 AA	20170817	AU20160215195	20160204
BR112017016833 A2	20180619	BR20171116833	20160204
CA2974985 AA	20170725	CA20162974985	20160204
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CN107406281 A	20171128	CN201680018000	20160204
CO20170008869 A2	20171121	CO20170008869	20170830
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IN201747030475 A	20170908	IN201747030475	20170829
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SG11201706073V A1	20170830	SG20171106073	20160204
TH180360 A	20181011	TH20171004341	20160204
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WO16126940 A1	20160811	WO2016US16563	20160204

Priority:

US20150111980P 20150204 US20160548513 20160204 WO2016US16563 20160204

Probable Assignee: SPRAYING SYSTEMS CO

Assignee(s): (std): SPRAYING SYSTEMS CO
Assignee(s): SWARTZ JAMES B ; HAZELWOOD JOHN ; MOYER JAMES I ; ROSSOM JAMES D
Inventor(s): (std): HAZELWOOD JOHN ; MOYER JAMES I ; ROSSOM JAMES D ; SWARTZ JAMES B ; JOHN HAZELWOOD ; JAMES B SWARTZ ; JAMES D ROSSOM ; JAMES I MOYER
Agent(s): SHELSTON IP PTY LTD; MACRAE AND CO; ESTUDIO CLARKE MODET AND CO CHILE LIMITADA; CAROLINA MERCEDES DAZA MONTALVO; MAKOVSKI PRISCILLA MARY; SCHLEMMER DENNIS R ET AL
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

5) Family number: 30362444 (US2005183949A) © PatBase

Title: END CAP FOR AN ELECTROLYTIC CELL

Abstract: An insulating end cap for a cylindrical electrolysis cell the type comprising at least two tubular electrodes with a cylindrical membrane arranged co-axially between them, comprises a first annular section with first and second axial ends, having at its first axial end a circular seating or one end of an outer cylindrical electrode and at its second end a circular aperture, of smaller diameter than the circular seating and co-axial therewith, to accommodate one end of the membrane. A second annular section of the end cap is detachably secured to the first and has a central circular aperture of smaller diameter than the central aperture of the first section and co-axial therewith, to accommodate one end of the inner cylindrical electrode. The two part construction of the end cap facilitates the assembly of the cell, and reduces the likelihood of breakage of the fragile ceramic membrane.

Classifications:

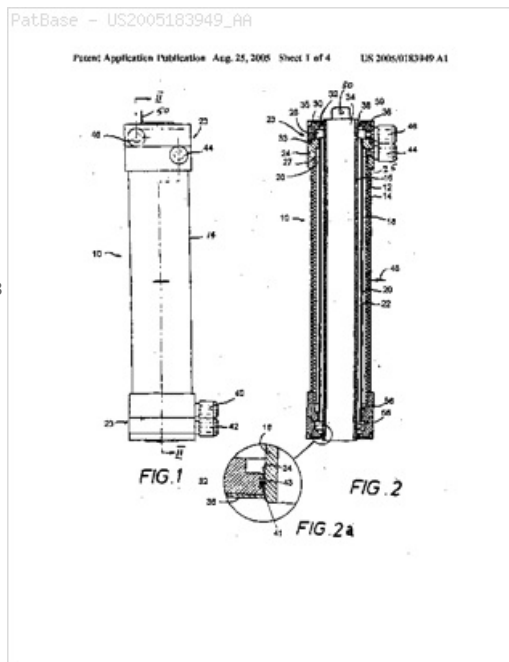
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International (IPC 1-7): A01N59/00 A61L2/03 C02F1/461 C02F1/469 C25B1/26 C25B9/00 C25B9/02 C25B9/08

CPC: C02F1/283 C02F1/46104 C02F1/46109 C02F1/4674 C02F1/48 C02F2001/46138 C02F2201/003 C02F2201/46115 C02F2201/46145 C02F2209/04 C02F2209/06 C25B9/00 C25B9/02 C25B9/08 A61L2/18 C02F1/4618 C02F2201/4612 C02F2201/46185 C02F2303/20 C25B1/26 C25B15/02 C02F1/30 C02F2001/46152 C02F2103/026 C02F2201/4614 C02F2209/02 C02F2209/05 C02F2301/024 C02F2305/04 C25B15/08

European: A61L2/18 C02F1/461B C02F1/461B6 C25B9/00 C25B9/02 C25B9/08 M02F1/28D M02F1/461B2 M02F1/461B2J2 M02F1/467B2 M02F1/48 M02F201/00D2 M02F201/461B12B M02F201/461B4 M02F201/461B6 M02F201/461B6D M02F209/04 M02F209/06 M02F303/20

US: 204/242 204/252 204/260 204/263 204/275.1 204/275.100S 204/297.01 204/297.010S 204/297.15 204/297.150S 205/100 205/618 205/742 205/788 210/500.21 210/500.210S



Family:

Publication number	Publication date	Application number	Application date
EP1538128 A2	20050608	EP20040257495	20041202
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GB200426361 A0	20050105	GB20040026361	20041201
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GB2409464 A1	20050629	GB20030030084	20031224
GB2409465 A1	20050629	GB20040026362	20041201
GB2409465 B2	20080709	GB20040026362	20041201
GB2409684 A1	20050706	GB20040026361	20041201
GB2409684 B2	20080709	GB20040026361	20041201
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US2010140080 AA	20100610	US20100708138	20100218
US7691249 BB	20100406	US20040004252	20041203
US8002955 BB	20110823	US20100708138	20100218

Priority:

GB20030028124 20031204 GB20030030084 20031224 US20040004252 20041203
US20100708138 20100218

Probable Assignee: CLARENTIS HOLDING INC

Assignee(s): (std): AQUASTEL INT BV ; AQUASTEL INTERNAT B V ; CLENOX INC ; CLENOX L L C ; CLENOX LLC ; DALY JAMES ; MEDIPURE LTD ; VAN SCHAICK MICHEL

Assignee(s): MEDIPURE LIMITED ; JAMES DALY ; AQUASTEL INTERNATIONAL B V ; CLARENTIS HOLDING INC

Inventor(s): (std): SCHAICK MICHEL V ; VAN SCHAICK MICHEL ; DALY JAMES ; JAMES DALY ; MICHEL VAN SCHAICK ; SCHAICK MICHAEL VAN ; SCHAICK MICHEL VAN

Inventor(s): SCHAIK MICHEL
Agent(s): BRAS PIETER; AKERMAN SENTERFITT; SALIWANCHIK LLOYD AND SALIWANCHIK, A PROFESSIONAL ASSOCIATION; SALIWANCHIK LLOYD AND SALIWANCHIK A PROFESSIONAL ASSOCIATION; SALIWANCHIK LLOYD AND SALIWANCHIK PA; SALIWANCHIK LLOYD AND EISENSCHENK
Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GR HU IS IT LI LT LU MC NL PL PT RO SE SI SK TR

6) Family number: 1857470 (US4248681A)

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Title: Generation of chlorine/chlorine dioxide mixtures

Abstract: An electrolytic generator is disclosed for use in treating water in swimming pools, baths, reservoirs, sewage, etc., and in bleaching chemical pulp. The generator is of the type consisting of two sealed compartments separated by an ion-permeable membrane and having a cathode in one compartment and an anode in the other. Hydrogen is evolved from the cathode compartment and a chlorine/chlorine dioxide mixture from the anode compartment. In this generator, an electrically neutral or bipolar electrode (one not connected in the anode-cathode circuit) is positioned adjacent to the anode or between the anode and the cathode adjacent to the ion-permeable membrane in the anode compartment. This electrolytic generator is characterized by a more rapid start up and generates a mixture of chlorine and chlorine dioxide at both the anode and the neutral electrode.

Classifications:

International (IPC 8-9): B01D35/027 C02F1/461 C02F1/467 C02F1/76 C25B1/26 C25B1/46 C25B9/00 C25B9/06

C25B9/08 (Advanced/Invention);

C02F1/76 (Advanced/Non-invention);

B01D35/00 C02F1/461 C02F1/76 C25B1/00 C25B9/00

C25B9/06 (Core/Invention);

C02F1/76 (Core/Non-invention)

International (IPC 1-7): C02F1/50 C02F1/76 C25B1/00 C25B1/02

C25B1/16 C25B1/22 C25B1/26 C25B1/34 C25B1/46 C25B9/00

CPC: C02F1/46109 C02F1/4674 C02F1/763 C02F2001/46128

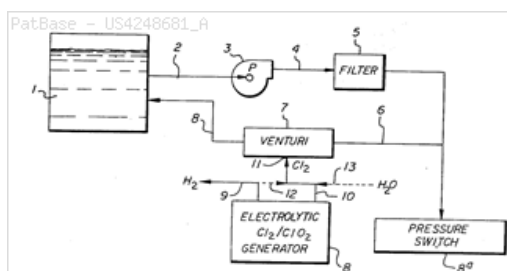
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European: C02F1/461B2 C02F1/467B2 C25B1/26 C25B9/06B2

M02F1/461B2H M02F1/467B2 M02F1/76E M02F103/42 M02F201/461B4

US: 204/101 204/103 204/255 204/256 204/260 204/266 204/296 204/96 204/98 205/511 205/556 205/616 205/618

205/621 205/746 210/167.11 210/169 210/192 210/753 210/754 422/37



Family:

Publication number	Publication date	Application number	Application date
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CA1159011 A1	19831220	CA19800363853	19801103
DE3068899 D1	19840913	DE19803068899	19801106
EP0028925 A1	19810520	EP19800303982	19801106
EP0028925 B1	19840808	EP19800303982	19801106
JP1477681 C3	19890127	JP19800155263	19801106
JP56084486 A2	19810709	JP19800155263	19801106
JP63023273 B4	19880516	JP19800155263	19801106
US4248681 A	19810203	US19800121115	19800213
US4256552 A	19810317	US19790092645	19791108
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US4334968 A	19820615	US19800121114	19800213

Priority:

US19790092645 19791108

US19800121114 19800213

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US19800181125 19800825

CA19800363853 19801103

Probable Assignee: ELECTROSCI INC

Assignee(s): (std): SWEENEY CHARLES T ; SWEENEY CHARLES TIMOTHY ; SWEENEY C

Assignee(s): MOSLEY NEAL J ; MOSELY NEAL J ; PURELINE TREATMENT SYSTEMS LLC A DELAWARE CORP ; TETRAVALENT INC ; PURELINE TREATMENT SYSTEMS LLC ; CAMPHUIS DOUG ; ELECTROSCI INC ; ELECTROSCI INC A CALIFORNIA CORP ; GENERAL ELECTRIC CAPITAL A NEW YORK CORP ; GENERAL ELECTRIC CAPITAL CORP ; MORLAND WILLIAM B

Inventor(s): (std): SWEENEY CHARLES T ; SWEENEY CHARLES TIMOTHY ; SWEENEY C

Inventor(s): CHAARUZU CHIMOJII SUIINII

Agent(s): MEREDITH AND FINLAYSON

Designated states: DE FR GB NL

7) Family number: 5039616 (US4199635A)

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Title: FABRIC FACED LAMINATE PANEL AND METHOD OF MANUFACTURE

Abstract: The disclosure is of decorative panels and the method of their manufacture. The decorative panels are laminates of textile materials, having a decorative fabric surface. The panels of the invention are particularly advantageous in that they are economical to manufacture and exhibit a high degree of structural stability, and resistance to delamination.

Classifications:

International (IPC 8-9): B29C43/20 B29C63/00 B29C70/34

B32B27/02 B32B27/12 B32B37/00 B32B5/02 B32B5/26 C08J5/22

C25B1/46 C25B11/04 C25B11/06 C25B11/08 C25B11/10 C25B9/00

C25B9/10 C25B9/20 C25C3/02 D04H13/00

D06N7/00 (Advanced/Invention);

B60R13/02 B60R13/08 (Advanced/Non-invention);

B29C43/20 B29C63/00 B29C70/04 B32B27/02 B32B27/12

B32B37/00 B32B5/22 C08J5/20 C25B1/00 C25B11/00 C25B9/00

C25B9/06 C25B9/18 C25C3/00 D04H13/00

D06N7/00 (Core/Invention);

B60R13/02 B60R13/08 (Core/Non-invention)

International (IPC 1-7): B32B1/00 B32B11/00 B32B27/02 B32B27/12

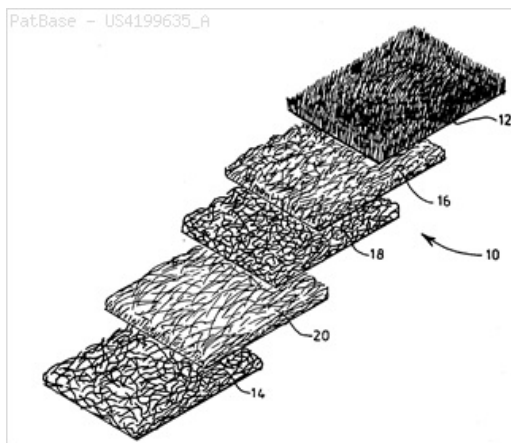
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 C25B1/26 C25B1/34 C25B1/44 C25B1/46 C25B11/02 C25B11/03
 C25B11/04 C25B11/06 C25B11/08 C25B11/10 C25B11/12
 C25B13/00 C25B13/02 C25B13/04 C25B13/08 C25B15/02
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 D04H1/54 D06N7/00

CPC: C25B9/10 Y10S204/09 C08J2327/12 C08J2371/12 C25B9/206
 C08J5/2293 C25B1/46 C25B9/00 C25B11/04 C25B11/0489
 Y10T428/23979 Y10T442/667 D04H1/485 D04H1/498 D04H1/558
 B29C43/203 B29C43/00 B29C43/40 B29C70/345 B29K2105/06
 B29K2105/128 B29K2105/256 B29L2031/3041 B29L2031/722
 B60R13/02 B32B5/26 B32B5/06 B32B2451/00 B29C70/12
 B32B27/12 B32B5/022 B32B2262/02 B32B2305/18

European: B29C43/20B B29C67/14B2 B29C70/12 B29C70/34B
 B32B27/12 C08J5/22D2 C25B1/46 C25B11/04 C25B11/04D4D
 C25B9/00 C25B9/10 C25B9/20B2 D04H13/00B3 L29C43/00
 L29C43/40 L29K105/06 L29K105/12D L29K105/25C4 L29L31/30B24
 L29L31/722 L60R13/02

US: 156/62.2 204/128 204/222 204/229.5 204/252 204/254 204/255
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PatBase - US4199635_A



Family:

Publication number	Publication date	Application number	Application date
AT211280 A	19870315	AT19800002112	19800418
AT384251 B	19871027	AT19800002112	19800418
AU198055825 A1	19800828	AU19800055825	19800222
AU536923 B2	19840531	AU19800055825	19800222
BE881871 A	19800822	BE19800199511	19800222
BE882871 A	19800818	BE19800200297	19800418
CA1121142 A1	19820406	CA19800350101	19800417
CA1190889 A1	19850723	CA19800345215	19800207
DE3006120 A1	19800904	DE19803006120	19800219
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FR2449733 A1	19800919	FR19800003995	19800222
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FR2454366 A1	19801114	FR19800008782	19800418
FR2454366 B1	19830718	FR19800008782	19800418
GB2045279 A1	19801029	GB19800006227	19800225
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GB2047619 B2	19821222	GB19800003935	19800206
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IT1207107 A	19890517	IT19800048472	19800421
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NL8001088 A	19800826	NL19800001088	19800222
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NO800391 L	19800825	NO19800000391	19800213
SE440921 B	19850826	SE19800001377	19800221
SE440921 C	19851205	SE19800001377	19800221
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SE448613 C	19870618	SE19800002880	19800417
SE8001377 A	19800824	SE19800001377D	19800221
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SE8002880 L	19801021	SE19800002880	19800417
US4199635 A	19800422	US19790032243	19790420
US4250013 A	19810210	US19790015529	19790223
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US4339314 A	19820713	US19810235174	19810217

Priority:

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Probable Assignee: DORSET INC

Assignee(s): (std): PPG IND INC ; GATES FORMED FIBRE INC ; GATES FORMED FIBRE PRODUCTS IN ; GATES FORMED FIBRE PRODUCTS ; ALBANY INT CORP

Assignee(s): ALBANY INT CORP TE MENANDS NEW YORK VER ; ALBANY INT CORP TE MENANDS NEW YORK VER ST V AM ; CARLIN WILLIAM W ; CUNNINGHAM HUGH ; GATES CORP ; DORSET INC ; GATES 900 SOUTH BROADWAY DENVER CO A DE CORP CORP ; GATES FORMED FIBRE INC A CORP OF MAINE ; ELLSWORTH ARTHUR C ; DUBOIS DONALD W ; DARLINGTON WILLIAM B ; PPG IND ; GATES FORMED FIBRE PRODUCTS INC ; LVANIA ; GATES FORMED FIBRE PRODUCTS INC TE DENVER COLORADO VER ST V AM ; P P G IND INC TE PITTSBURGH PENNSYLVANIEE VER ST V AM ; PPG IND INC A OF STATE OF PENNSY CORP ; PARKER ROY B ; GRAYBILL WILMER B ; WELCH CLETUS N ; JOHNSON HARLAN B ; RAETZSCH CARL W JR ; KORACH MALCOLM ; PPG IND OHIO INC ; HOEKJE HOWARD H ; PPG IND INC A CORP OF PA

Inventor(s): (std): CARLIN WILLIAM W ; JOHNSON H B ; KORACH M ; RAETZSCH CARL WILLIAM ; WELCH C N ; WILMER BERNARD GRAYBILL ; RAETZSCH JR C W ; MALCOLM KORACH ; HOWARD HAIL HOEKJE ; HOEKJE H H ; GRAYBILL W B ; ELLSWORTH A C ; DUBOIS D W ; DONALD WAYNE DUBOIS ; DARLINGTON W B ; CUNNINGHAM H ; CLETUS NORMAN WELCH ; CARLIN W W ; ARTHUR WILLIAM WORTH CARLIN ; GRAYBILL WILMER B ; WELCH CLETUS NORMAN ; WELCH CLETUS N ; ROI BII PAAKAA ; RAETZSCH JUN CARL WILLIAM ; RAETZSCH CARL WILLIAM JR ; RAETZSCH CARL W ; KORACH MALCOLM ; JOHNSON HARLAN BEATTIE ; GRAYBILL WILMER BERNARD ; ELLSWORTH ARTHUR CHARLES ; DUBOIS DONALD WAYNE ; DUBOIS DONALD D ; DARLINGTON WILLIAM BRUCE ; DARLINGTON WILLIAM B ; CUNNINGHAM HUGH ; CORPUS CHRISTI TEX ; HOEKJE HOWARD HAIL ; HOEKJE HOWARD H ; HOEKJE HOWARD HAIL ; CARLIN WILLIAM WORTH ; WILLIAM BRUCE ; RAETZSCH HUGH ; KORACH ARTHUR ; HOEKJE WILMER BERNARD ; HAIL HOWARD ; GRAYBILL MALCOM ; ELLSWORTH CHARLES ; DUBOIS WAYNE ; DARLINGTON DONALD ; CUNNINGHAM HARLAN ; CARL WILLIAM ; BEATTIE JOHNSON ; UIRUMAABAANAADO GUREIBIRU ; UIRIAMU WAASU KAARIN ; UIRIAMU BURUUSU DAARINTON ; PARKER ROY B ; PARKER R B ; PARKER R ; MARUKOMU KOURATSUKU ; KURETASU NOOMAN UERUCHI ; KAARU UIRIA ; JOHNSON HARLAN B ; HAWAADO HAIRU FUUKE ; DONARUDO UEN DEYUBOISU ; AASAA CHIYAARUSU ERUSUWAASU ; PITTSBURGH PA ; RAETZSCH CARL W JR ; ELLSWORTH ARTHUR C ; DUBOIS DONALD W

Inventor(s): NORMAN WELCH CLETUS ; A C ELLSWORTH ; 1W W CARLIN ; 1C N WELCH ; D W DUBOIS ; C W RAETZSCH JR ; C N WELCH ; H H HOEKJE ; H CUNNINGHAM ; H B JOHNSON ; M KORACH ; W W CARLIN ; W B GRAYBILL ; W B DARLINGTON ; CARL WILLIAM RAETZSCH JR ; BRUCE DARLINGTON WILLIAM ; BERNARD GRAYBILL WILMER ; BEATTIE JOHNSON HARLAN ; ARTHUR CHARLES ELLSWORTH ; HARLAN BEATTIE JOHNSON ; HAIL HOEKJE HOWARD ; CHRISTI TEX CORPUS ; CHARLES ELLSWORTH ARTHUR ; HUGH CUNNINGHAM ; HOWARD HAIL HOEKJE ; R B PARKER ; ROY BPARKER ; ROY B PARKER ; WORTH CARLIN WILLIAM ; WILLIAM WORTH CARLIN ; WILLIAM RAETZSCH JUN CARL ; WILLIAM RAETZSCH JUN ; WILLIAM BRUCE DARLINGTON ; A C ELLSWORTH ; 9 D W DUBOIS ; 8 W B DARLINGTON ; 7 H B JOHNSON ; 6 H CUNNINGHAM ; 5 C W RAETZSCH JR ; 4 A C ELLSWORTH ; 3 M KORACH ; 2 W B GRAYBILL ; 1W W CARLIN ; 1C N WELCH ; 11 W W CARLIN ; 10 C N WELCH ; 1 H H HOEKJE ; C W RAETZSCH JR ; B PARKER ROY ; D W DUBOIS ; H H HOEKJE ; H B JOHNSON ; H CUNNINGHAM ; RB PARKER ; W B DARLINGTON ; W B GRAYBILL ; M KORACH

Agent(s): COLLISON AND CO; SWABEY OGILVY RENAULT; BORDEN LADNER GERVAIS LLP

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Title: FLOATING LAKE SYSTEM AND METHODS OF TREATING WATER WITHIN A FLOATING LAKE

Abstract: The present invention relates to floating lakes and to the treatment of the water in such lakes. The present invention further relates to large floating lakes that can be installed within a natural or artificial water body to improve water conditions that are unsuitable for recreational uses. The floating lake can be provided with a chemical application system; a filtration system including a mobile suctioning device and filters; a skimmer system, and optionally a coordination system.

Classifications:

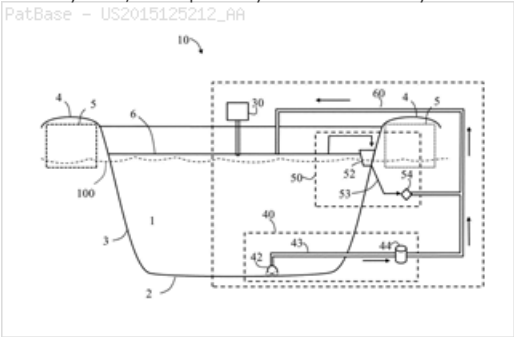
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CPC: E02B15/04 E02B15/06 E02B15/0814 E02B15/0807 E02B15/045 E02B15/041 C02F9/00 C02F1/004 C02F1/72 C02F1/5245 C02F1/56 C02F1/722 C02F1/76 C02F1/78 C02F1/001 B01D21/0012 B01D21/01 C02F2001/007 C02F1/52 C02F2103/007 E04H4/0012 E04H4/1209 C02F1/008 C02F1/442 C02F1/444 C02F1/4672 C02F2103/023 C02F2103/42 C02F2201/006 C02F2209/001 C02F2209/005 C02F2209/03 C02F2209/04 C02F2209/06 C02F2209/07 C02F2209/11 C02F2209/36 C02F2209/44 C02F2303/10 Y02W10/30 B63B35/73 C02F1/66 E04H4/00 E04H4/16

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Probable Assignee: CRYSTAL LAGOONS CURACAO BV

Assignee(s): (std): CRYSTAL LAGOONS CURACAO BV ; FISCHMANN FERNANADO BENJAMIN

Assignee(s): FISCHMANN FERNANDO BENJAMIN

Inventor(s): (std): BENJAMIN FISCHMANN FERNANDO ; FISCHMANN TORRES FERNANDO BENJAMIN ; FISCHMANN FERNANDO ; CRYSTAL LAGOONS CURACAO BV ; FISCHMANN FERNANDO BENJAMIN FB ; FISCHMANN TORRES FERNANDO BENJAMIN ; FERNANDO BENJAMIN FISCHMANN ; FISCHMANN FERNANDO BENJAMIN

Inventor(s): FISCHMANN FERNANADO BENJAMIN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; ROBIC; ESTUDIO CLARKE MODET AND CO CHILE LIMITADA; CAROLINA MERCEDES DAZA MONTALVO; CARVAJAL Y URQUIJO ISABEL; ABU GAZALEH INTELLECTUAL PROPERTY LLC; CLT PATENT AND TRADEMARK HK LTD; TONY R SIMBOLON; ROMI EMIRAT SH; TOLGA CAYLAK; MERCHANT AND GOULD PC

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