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Search 4: filtrat* (Results 295659)
Search 5: 3 and 4 (Results 124)
Search 6: tank (Results 1000000)
Search 7: 5 and 6 (Results 31)

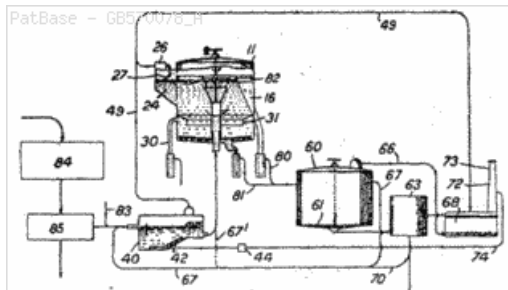
1) Family number: 19154395 (GB570078A)

Title: PURIFICATION OF LIQUIDS

Abstract: Source: GB570078A 570,078. Treating sewage, and C. TRIGGS, W. W. (Dorr Co., Inc.). Dec. 11, 1942, No. 17668. [Class 111] In the treatment of sewage, and c., the liquid containing gas is treated in a vacuum flotation apparatus 11, as described in Specification 570,076, and the scum and sludge are passed through pipes 80, 81 respectively to a digestion tank 60, supernatant liquor being returned from the latter through a pipe 67 for retreatment in the apparatus 11. A branch pipe 671 allows the gasification tank 40 to be bypassed. A large tank 60 may be provided with rotary sludgeimpelling arms 61. The digested sludge is passed to a dewatering station 63 comprising filtering equipment and means for adding a coagulating chemical or other filter aid prior to filtration or a centrifuge, the separated liquid being removed through a pipe 70, preferably connected to the pipe 67, and the sludge cake being passed to a flash dryer or incinerator 68, preferably heated by digester gas supplied through a pipe 66. Gas and vapour from the tanks 40, 11 may be conducted through a pipe 49 to the incinerator for deodorization and a damper 72 may be provided in the stack 73 to permit the supply of stack gases through a pipe 74 by means of a compressor 44 to the gas-diffusing tiles 42 in the tank 40. The liquid level in the tank 11 relative to the ramp 82 and hopper 16 of the scum-removing means may be varied as by an adjustable nozzle 27, arranged in an auxiliary chamber 24 and connected to a wet vacuum pump 26, for controlling the concentration of the scum. The effluent from the tank 11 is withdrawn through a pipe 30 from below a baffle 31. The influent liquid may be passed through a disintegrator or screen 84 and a grit washing station 85, and coagulants, such as alum or ferric chloride, may be added through a pipe 83. If no chemicals be added, an impeller aerator may be provided in the tank 40 instead of the tiles 42. Inert gas is used with a liquid having a high biological oxygen demand.

Classifications:

International (IPC 8-9): C02F3/12 C02F3/30 (Advanced/Invention);
C02F3/12 C02F3/30 (Core/Invention)
CPC: Y02W10/15 C02F3/1215 C02F3/30
European: C02F3/12A4 C02F3/30



Family:

Publication number	Publication date	Application number	Application date
GB570078 A	19450621	GB19420017668	19421211

Priority:

GB19420017668 19421211

Probable Assignee: WILLIAM WARREN TRIGGS

Assignee(s): (std): WILLIAM WARREN TRIGGS

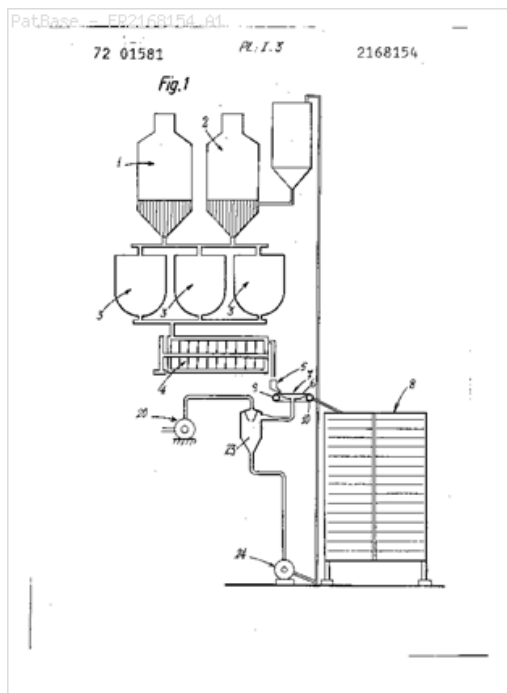
2) Family number: 2918529 (FR2168154A)

Title: CONTINUOUS VACUUM FILTRATION - FOR RECOVERY OF SUGAR CRYSTALS FROM COOKED SYRUP

Abstract: Source: FR2168154A (Claim 1) 1. Procède pour la filtration en continu des cristaux de sucre du sirop provenant des appareils de cuisson, caractérisé en ce luron étale le sirop sucré sur un tapis filtrant se déplaçant horizontalement à une vitesse réglable, en ce luron maintient sous le tapis une dépression pour aspirer le sirop, en ce qu'on collecte le sirop ainsi aspire pour le degazer et en ce ce qu'on refoule le sirop ainsi traité vers l'appareillage de cuisson. Syrup ("Massecuite") delivered from evap., and cooking processes is passed over a horizontal vacuum filter band to obtain crystals for drying from the top of the band and a syrup filtrate for return to the cooking stage. Pref., the vacuum on the underside of the filter band is 100-150 Torrs and the band speed is 4-8 cms/sec.

Classifications:

International (IPC 8-9): B01D33/04 C13B30/04
C13F1/04 (Advanced/Invention);
C13F1/00 (Core/Invention)
International (IPC 1-7): B01D33/00 C13F1/00 C13F1/12
CPC: B01D33/04 C13B30/04
European: B01D33/04 C13B30/04



Family:

Publication number	Publication date	Application number	Application date
FR2168154 A1	19730831	FR19720001581	19720118
FR2168154 B1	19760611	FR19720001581	19720118

Priority:

FR19720001581 19720118

Probable Assignee:

THIREL YVES

Assignee(s): (std):

THIREL YVES

Assignee(s):

THIREL YVES FR

3) Family number: 31305902 (US3893917A)

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Title: MOLTEN METAL FILTER

Abstract: Source: US3893917A The present invention resides in an improved molten metal filter and a method of preparing same and a method of filtering molten metal therethrough. The filter is an open cell ceramic foam material having a plurality of interconnected voids surrounded by a web of said ceramic.

Classifications:

International (IPC 8-9): B01D29/00 B01D29/01 B01D35/02 B01D35/027 B01D39/14 B01D39/20 B22D43/00 B28B3/12 C04B35/10 C04B38/00 C04B38/06 C08J9/16 C22B21/06 C22B9/00 C22B9/02 C22B9/05 F01D17/16 (Advanced/Invention); B01D29/00 B01D29/01 B01D35/00 B01D39/20 B22D43/00 B28B3/00 C04B35/10 C04B38/00 C04B38/06 C22B21/00 C22B9/00 C22B9/02 F01D17/00 (Core/Invention)

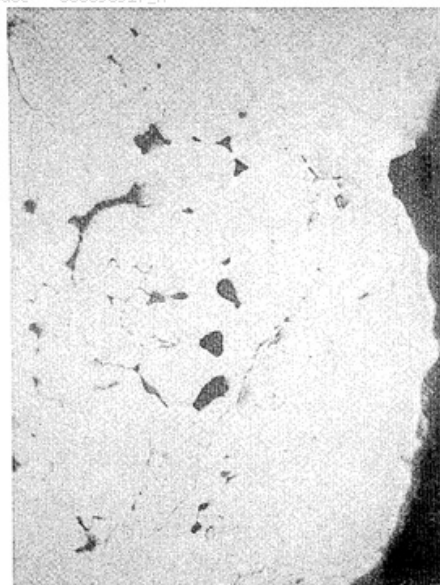
International (IPC 1-7): B01D23/02 B01D25/08 B01D27/02 B01D27/04 B01D29/20 B01D35/02 B01D39/14 B01D39/16 B01D39/20 B01F7/28 B22D21/04 B22D43/00 B28C5/00 B29H7/20 C04B21/00 C04B21/06 C04B21/08 C04B25/00 C04B31/00 C04B33/32 C04B35/00 C04B35/10 C04B35/64 C04B38/00 C04B38/06 C08J9/16 C22B21/00 C22B21/06 C22B9/00 C22B9/02 C22B9/05 C22B9/10

CPC: B28B3/126 F01D17/162 C04B2111/00793 Y02P10/234 C04B38/0605 B22D43/004 C04B35/10 C22B9/023 C22B9/05 C04B38/0051 C04B38/06 C04B38/0615 C22B9/02 C22B21/066 B01D29/03 B01D39/2093 B01D2201/182 C22B9/055

European: B01D29/00A4B B01D29/01 B01D39/20H6 B22D43/00R2 B28B3/12C C04B35/10 C04B38/00H C04B38/06 C04B38/06B C04B38/06D C22B21/06F C22B9/02 C22B9/02F C22B9/05 C22B9/05F F01D17/16B M04B111/00T50

US: 164/134 210/455 210/496 210/510 210/510.1 210/69 210/773 264/344 264/43 264/44 266/217 266/218 266/227 266/231 419/2 419/23 501/80 75/411 75/412 75/68R

PatBase - US3893917_A



Family:

Publication number	Publication date	Application number	Application date
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NO150165 C	19840829	NO19800001371	19800509
NO150566 B	19840730	NO19780000574	19780220
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Priority:

19531009

CA19770269976 19770118

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US19740529452 19741204 US19740430229 19740102 US19760727902 19760930
US19760654724 19760202 US19750563213 19750328 US19750589294 19750623
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US19770820094 19770729 US19770770395 19770222

Probable Assignee: ALUSUISSE

Assignee(s): (std): ALUMINIUM SUISSE SA ; ALUSUISSE ; ALUSUISSE LONZA HOLDING AG ; SCHWEIZERISCHE ALUMINIUM AG 3965 CHIPPIS CH ; SCHWEIZERISCHE ALUMINIUM AG ; SCHWEIZERISCHE ALUMINIUM AG CHIPPIS ZUSTELLADRESSE ; SCHWEIZERISCHE ALUMINIUM AG TE CHIPPIS ZWITSERLAND ; ALLUMINIO SVIZZERO S A ; ALLUMINIO SVIZZERO SA

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Inventor(s): (std): DORE E JAMES ; DORE EJAMES ; DORE J ; DORE J E ; DORE JAMES E ; DORE JE ; GRAY J THOMAS ; GRAY T ; GRAY T J ; GRAY THOMAS J ; JAMES DORE E ; JAMES E DORE ; JEEMUSU II DOOAA ; JEEMUZU II DOOAA ; JIEEMUSU II DOOAA ; JIEEMUSU II DOORE ; JIEEMUZU II DOAA ; JIYON SHII YAAUTSUDO ; JOHN C YARWOOD ; JOHN YARWOOD ; JON SHII YAAUTSUDO ; MAIKURU JEI PURAIYAA ; MAIKURU JIEI PURAIYAA ; MICHAEL J PRYOR ; MICHAEL PRYOR J ; PREUSS K ROBERT ; PREUSS KROBERT ; PREUSS R ; PREUSS R K ; PREUSS RK ; PREUSS ROBERT K ; PRYOR MJ ; ROBAATO KEI PUREUSU ; ROBAATO KEI PUREUSUSU ; ROBAATO KEI PURIYUUSU ; ROBAATO KEI PURYUUSU ; ROBERT K PREUSS ; ROBERT PREUSS K ; THOMAS GRAY J ; THOMAS J GRAY ; TOOMASU JEI GUREE ; TOOMASU JIEI GUREE ; YARWOOD J ; YARWOOD J C ; YARWOOD JC ; YARWOOD JOHN ; YARWOOD JOHN C ; PRYOR J MICHAEL ; PRYOR M ; PRYOR M J ; PRYOR MICHAEL J ; GRAY TJ

Inventor(s): J GRAY THOMAS ; J PRYOR MICHAEL ; PRYOR MICHAEL J NEW HAVEN CONN US ; PRYOR MICHAEL J WOODBRIDGE NEW HAVEN CONN US ; YARWOOD JOHN C MADISON CONN US ; PREUSS ROBERT K MIDDLETOWN CONN US ; K PREUSS ROBERT ; GRAY THOMAS J HALIFAX NEU SCHOTTLAND CA ; E DORE JAMES ; C YARWOOD JOHN ; CONN ; DORE JAMES E BALLWIN MO US ; DORE JAMES E MILFORD NEW HAVEN US ; DORE JAMES E NEW HAVEN CONN US

Agent(s): OGILVY RENAULT LLP SENCRL SRL ; SWABEY OGILVY RENAULT

4) Family number: 2153187 (DE2431120A1)

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Title: VERFAHREN UND VORRICHTUNG ZUR AUFARBEITUNG VON HAUSMUELL, KOMMUNALEN UND INDUSTRIELLEN ABWAESSERTEN UND KLAERSCHLAMM PROCESSING HOUSEHOLD RUBBISH, COMMUNAL AND INDUSTRIAL SEWAGE, ETC - FOR PROTECTION OF THE ENVIRONMENT AND RECOVERY OF VALUABLE PRODS

Abstract: Source: DE2431120A1 Patentansprueche Verfahren zur Aufarbeitung von Hausmuell odgl, dadurch ge kennzeichnet, dass der feine oder zerkleinerte Hausmuell mit kommunalen industriellen Abwaessern oder Klaerschlamm aufge schwemmt wird, die evtl sich am Boden absetzenden Schwerst stoffe, wie Sand, Metallliile udgl. Household rubbish and/or similar material is pulverised and expanded with industrial effluents and/or sewage sludge heavy matter such as sand, pieces of metal, etc., being allowed to settle out. The fluid is then subjected to shock loading by electrical discharges, so as to reduce it to a cellular condition as far as possible, and filtered to a residual humidity suited to further biological treatment. The filtered mixture is changed by the micro-organisms into a humus whilst the filtrate is also converted by bacterial action into biologically irreproachable water. During processing, part of the saturated water may be drawn off for biological treatment and its volume replaced by fresh water, and during the electrical discharge treatment, oxidising agents in gaseous, fluid or dissolved form are added. Waste and sewage can be disposed of in an economically practical manner without harm to the environment, and valuable substances can be recovered for reintroduction into the natural cycle.

Classifications:

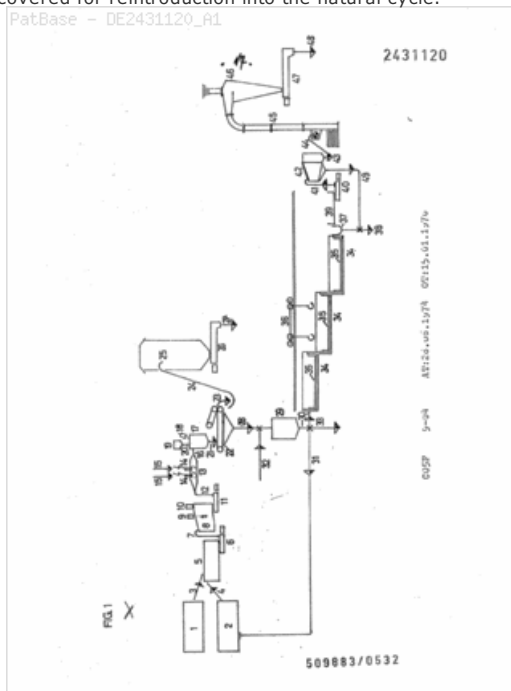
International (IPC 8-9): C05F17/00 C05F7/00 (Advanced/Invention); C05F17/00 C05F7/00 (Core/Invention)

International (IPC 1-7): C02C3/00 C05F9/04

CPC: Y02W30/43 C05F17/009 C05F7/00 Y02P20/145

European: C05F17/00V C05F7/00

PatBase - DE2431120_A1



Family:

Publication number	Publication date	Application number	Application date
DE2431120 A1	19760115	DE19742431120	19740628

Priority:

DE19742431120 19740628

Probable Assignee: EXTRAKTOR AG

Assignee(s): (std): EXTRAKTOR AG

Assignee(s): EXTRAKTOR AG VADUZ ; EXTRAKTOR VADUZ AG

Inventor(s): (std): LIPPE FRITZ

Inventor(s): LIPPE FRITZ 6236 ESCHBORN

5) Family number: 2014202 (US4340471A)

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Title: SYSTEM AND APPARATUS FOR THE CONTINUOUS DESTRUCTION AND REMOVAL OF POLYCHLORINATED BIPHENYLS FROM FLUIDS

Abstract: Source: US4340471A A system and apparatus therefor for the removal and destruction of harmful toxic polychlorinated biphenyls (PCBs) from a fluid, such as electrical transformer oil. The contaminated fluid is pumped through heating equipment to raise its temperature to a predetermined level prior to it being fed into a mixing chamber. An injector mechanism feeds a predetermined quantity of a reagent, such as an elemental sodium dispersion, into the mixing chamber where a power-driven impeller thoroughly mixes the two fluids. This mixture is fed into a reaction zone, preferably consisting of a plurality of closely nested back-and-forth tubes of a predetermined length and cross-sectional area wherein a chemical reaction occurs between the PCB-fluid and reagent forming harmless by-products which are insoluble in the now decontaminated fluid. The solid by-products are removed in a separator, such as a filtering medium or centrifuge, and any gases and water vapor are removed in a deep vacuum degasser. The trapped, harmless by-products then can be disposed of in a conventional, safe manner and the decontaminated fluid can be returned to its point of origin for reuse.

Classifications:

International (ipc 8-9): A62D3/00 A62D3/32 A62D3/34 A62D3/36 B01J19/00 C10M177/00 (Advanced/Invention);

A62D101/22 C10N40/14 C10N60/00 (Advanced/Non-invention); A62D3/00 C10M177/00 (Core/Invention)

International (ipc 1-7): A62D3/00 B01D19/00 B01J19/00 C07C C10G29/04 C10M11/00 H01F27/10

CPC: Y10S588/90 A62D3/36 A62D3/34 A62D2101/22 A62D2203/10

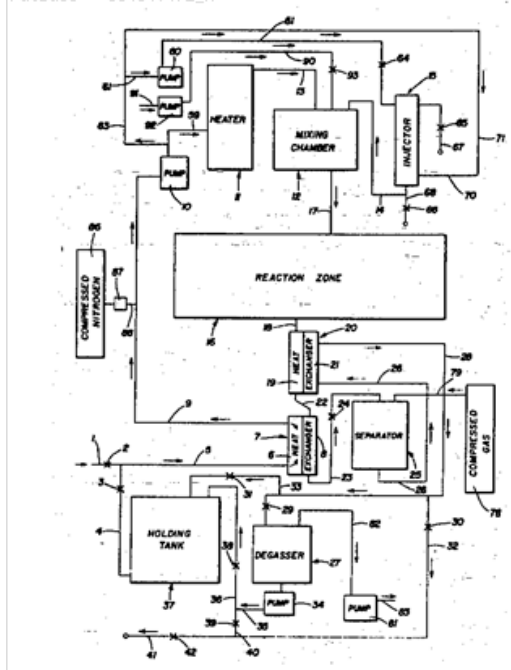
European: A62D3/00E10 A62D3/00K10 A62D3/00K6

A62D3/00M10B A62D3/34 A62D3/36 K62D101/22 K62D203/10

US: 208/262.5 210/101 210/167.3 210/177 210/180 210/206

210/218 585/469 588/900

PatBase - US4340471_A



Family:

Publication number	Publication date	Application number	Application date
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JP57064063 A2	19820417	JP19810113432	19810720
US4340471 A	19820720	US19800199261	19801021

Priority:

CA19810377662 19810515

US19800171388 19800723

US19800199261 19801021

Probable Assignee: SUNOHIO INC

Assignee(s): (std): SUNOHIO ; SUNOHIO A PARTNERSHIP ; SUN OHIO INC

Assignee(s): SUNOHIO CO ; SUNOHIO INC ; SUNOHIO CANTON ; SUNOHIO PARTNERSHIP OF OH ; SUNOHIO CO A CORP OF OH ; SUN ENVIRONMENTAL INC 1700 GATEWAY BOULEVARD SE CA ; SUN ENVIRONMENTAL INC 1700 GATEWAY BOULEVARD SE CANTON OHIO 44707 A DE CORP ; SUNOHIO PARTNERSHIP OF OH CONSISTING OF SUN OIL PO ; SUNOHIO PARTNERSHIP OF OH CONSISTING OF SUN OIL POWER SERVICE CO A CORP OF DE SUN OHIO INC A CORP OF OH ; ENSR A DE CORP CORP ; ENSR CORP ; JORDAN OTIS D ; SANOHIO A PAATONAASHITSUPU ; SUN ENVIRONMENTAL INC

Inventor(s): (std): JORDAN OTIS ; JORDAN OTIS D ; OTEISU DEII JOODAN ; OUTEISU DEII JIYOODAN

Inventor(s): OTIS D JORDAN

Agent(s): MACRAE AND CO

Title: COVALENTLY-MODIFIED POLYANIONIC BACTERIAL POLYSACCHARIDES, STABLE COVALENT CONJUGATES OF SUCH POLYSACCHARIDES AND IMMUNOGENIC PROTEINS WITH BIGENERIC SPACERS, AND METHODS OF PREPARING SUCH POLYSACCHARIDES AND CONJUGATES AND OF CONFIRMING COVALENCY

Abstract: Source: US4695624A Covalently modified bacterial polysaccharides and proteins; covalent conjugates of such polysaccharides linked by a bigeneric spacer, which permits proof of covalency and facilitates purification of conjugated materials, with immunogenic bacterial membrane or other proteins, which conjugates are useful components of bacterial vaccines; and methods of preparing such polysaccharides, proteins and conjugates and of confirming the covalency of the linkage between polysaccharides and proteins.

Classifications:

International (IPC 8-9): A61K38/02 A61K39/00 A61K39/02 A61K39/09 A61K39/095 A61K39/102 A61K39/108 A61K39/385 A61K39/39 A61K47/48 C07K14/195 C07K14/22 C07K17/06 C07K17/10 C07K9/00 C08B37/00 C08L99/00 C12P21/00 G01N33/50 G01N33/531 G01N33/569 (Advanced/Invention); A61K39/02 A61K39/09 A61K39/095 A61K39/102 A61K39/108 C08B37/00 C08L99/00 C12P21/00 G01N33/569 (Advanced/Non-invention); A61K38/02 A61K39/00 A61K39/02 A61K39/385 A61K39/39 A61K47/48 C07K14/195 C07K17/00 G01N33/50 G01N33/531 (Core/Invention)
International (IPC 1-7): A61K37/00 A61K37/02 A61K37/20 A61K38/02 A61K39/00 A61K39/02 A61K39/09 A61K39/095 A61K39/102 A61K39/108 A61K39/385 A61K39/39 A61K45/00 C07K14/195 C07K14/22 C07K15/00 C07K15/04 C07K17/06 C07K17/10 C07K9/00 C08B37/00 C08L99/00 C12P21/00 G01N33/50 G01N33/531 G01N33/569
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European: A61K39/385 A61K39/39 A61K47/48K8 A61K47/48R4 C07K17/06 C07K17/10 G01N33/531 G01N33/569 K61K39/555B1 K61K39/555B15 K61K39/60P K61K39/62L
US: 424/197.11 424/256.1 424/831 424/88 424/92 435/188 435/7 514/54 530/395 530/402 530/403 530/404 530/405 530/406 536/1.1 536/123 536/123.1 536/34 536/54 536/55.1

END

Family:

Publication number	Publication date	Application number	Application date
AT62255 E	19910415	AT19850400872T	19850506
AU198542214 A1	19851114	AU19850042214	19850509
AU589559 B2	19891019	AU19850042214	19850509
BG60630 B2	19951031	BG19920096111	19920319
CA1259450 A1	19890912	CA19850480745	19850503
CN1020733 C	19930519	CN19851004164	19850531
CN85104164 A	19870204	CN19851004164	19850531
CY1765 A	19940715	CY19940001765	19940715
DE3582356 D1	19910508	DE19853582356	19850506
DK171137 B1	19960624	DK19950000985	19950907
DK171420 B1	19961021	DK19850002055	19850509
DK205585 A	19851111	DK19850002055	19850509
DK205585 A0	19850509	DK19850002055	19850509
DK98595 A	19950907	DK19950000985	19950907
EP0161188 A2	19851113	EP19850400872	19850506
EP0161188 A3	19870722	EP19850400872	19850506
EP0161188 B1	19910403	EP19850400872	19850506
ES542919 A1	19861016	ES19850542919	19850508
ES8700298 A1	19870101	ES19850542919	19850508
GR851120 B	19851125	GR19850101120	19850508
HK18894 A	19940311	HK19940000188	19940303
IE58088 B	19930630	IE19850001134	19850507
IE851134 L	19851110	IE19850001134	19850507
IL75064 A0	19850929	IL19850075064	19850501
IL75064 A1	19881130	IL19850075064	19850501
JP2111895 C3	19961121	JP19850098129	19850510
JP60248622 A2	19851209	JP19850098129	19850510
JP8025899 B4	19960313	JP19850098129	19850510
KR910002553 B1	19910424	KR19850003157	19850509
LV5807 A4	19970220	LV19960000293	19960722
LV5807 B4	19970820	LV19960000293	19960722
MX9203156 A1	19920701	MX19920003156	19920623
NZ211953 A	19900129	NZ19850211953	19850502
PT80413 A	19850601	PT19850080413	19850508
PT80413 B	19870416	PT19850080413	19850508
SG9490140 A	19940610	SG19940090140	19940127
US4695624 A	19870922	US19850719678	19850404
US4882317 A	19891121	US19870063607	19870618
ZA8503505 A	19851224	ZA19850003505	19850509

Priority:

CA19850480745 19850503 CN19851004164 19850531 SG19940000140 19940127
EP19850400872 19850506 SG19940090140 19940127 US19840608738 19840510
US19870063607 19870618 US19850719678 19850404

Probable Assignee: MERCK AND CO INC

Assignee(s): (std): MERCK AND CO INC ; MC CO LTD

Assignee(s): MERCK AND CO ; MERCK AND CO INC A CORP OF NEW JERSEY ; MERCK AND CO INC RAHWAY N J US ; TOLMAN RICHARD L ; MERCK SHARP AND DOHME CORP ; INC ; KNISKERN PETER J ; MARBURG STEPHEN ; MC CO

Inventor(s): (std): PEETAA JIEE KUNISUKAAN ; PETER J KNISKERN ; RICHARD L TOLMAN ; KNISKERN P J ; MARBURG S ; RICHIIYAADO ERU TORUMAN ; SUTEFUEEN MARUBAAGU ; TOLMAN R L ; TOWERMAN RICHARD L ; TOLMAN RICHARD L ; MARBURG STEPHEN ; KNISKERN PETER J

Inventor(s): ET AL ; STEPHEN MARBURG ; MARBURG STEPHEN METUCHEN NEW JERSEY 08840 US ; RICHARD L TOWERMAN

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; GOUDREAU GAGE DUBUC; REINHOLD COHN AND PARTNERS

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

7) Family number: 4200828 (US4780134A)

© PatBase

Title: Simplified method and apparatus for treating molten steel

Abstract: Source: US4780134A A method and apparatus for post-melting treatment of molten steel in which a container of molten steel is subjected to a sub-atmospheric pressure generated by air ejector means and, simultaneously, to an inert gas purge. A higher inert gas purge rate is used with an air ejector system than with a steam jet ejector system because the treatment pressure in the air ejector system is higher than the treatment pressure in the steam jet system. Heating means for at least partially compensating for heat loss is also disclosed.

Classifications:

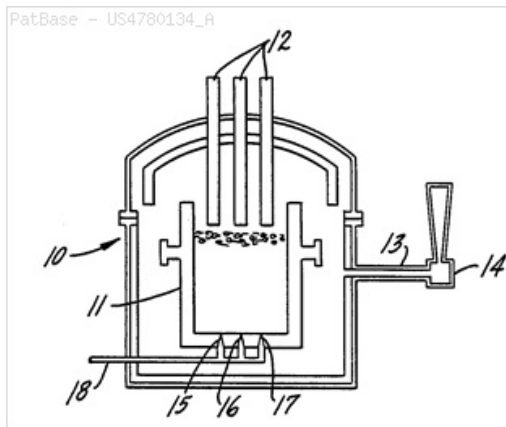
International (IPC 8-9): B22D1/00 B22D11/10 B22D11/11 B22D11/112 B22D11/113 B22D11/116 B22D45/00 C21C7/00 C21C7/10 F27D17/00 (Advanced/Invention); B22D1/00 B22D11/10 B22D11/11 B22D45/00 F27D17/00 (Core/Invention)

International (IPC 1-7): B22D1/00 B22D11/10 B22D45/00 C21C5/52 C21C7/00 C21C7/072 C21C7/10 C22B4/00 F27D17/00

CPC: C21C7/0075 C21C7/10

European: C21C7/00L C21C7/10

US: 266/157 266/207 266/211 75/10.38 75/10.39 75/10.64 75/512



Family:

Publication number	Publication date	Application number	Application date
AT125875 E	19950815	AT19890310263T	19891006
CA1338456 A1	19960716	CA19890614847	19890929
DE68923677 D1	19950907	DE19896023677	19891006
DE68923677 T2	19960307	DE19896023677T	19891006
EP0366293 A2	19900502	EP19890310263	19891006
EP0366293 A3	19900620	EP19890310263	19891006
EP0366293 B1	19950802	EP19890310263	19891006
JP2282414 A2	19901120	JP19890278316	19891024
US4780134 A	19881025	US19860910704	19860923
US4894087 A	19900116	US19880261444	19881024
US4950324 A	19900821	US19890301170	19890124

Priority:

US19860910704 19860923 US19880261444 19881024 US19880910704 19880923
US19890301170 19890124

Probable Assignee: FINKL AND SONS CO

Assignee(s): (std): EE FUINKURU AND SONS CO ; FINKL AND SONS CO

Assignee(s): A FINKL AND SONS CO ; A FINKL AND SONS CO 2011 NORTH SOUTHPORT AVENUE CH ; A FINKL AND SONS CO A CORP OF DE ; A FINKL AND SONS CO CHICAGO ILL US

Inventor(s): (std): FINKL CHARLES W ; LIIMATAINEN BRUCE ; PHILBRICK JR HERBERT S ; HAABAATO ESU FUIRUBURITSUKU ; CHIYAARUZU DABURIYU FUINKURU ; BURUUSU RIIMATAINEN ; PHILBRICK HERBERT S ; PHILBRICK HERBERT S JR

Inventor(s): PHILBRICK HERBERT S WILMETTE ILLINOIS 60091 US ; LIIMATAINEN BRUCE CHICAGO ILLINOIS 60614 US ; FINKL CHARLES W CHICAGO ILLINOIS 60614 US

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

8) Family number: 5730327 (US5234480A)

© PatBase

Title: METHOD AND APPARATUS FOR DECREASING PROBLEMS CAUSED BY RESIDUAL OR REACTION GASES OR GASES HARMFUL TO A PROCESS

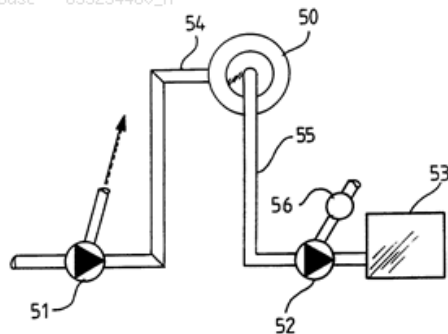
Abstract: Source: US5234480A The invention relates to a method and assembly for decreasing problems, especially odor hazards and interference with pump action, caused by residual or reaction gases, evolved or picked up in gas washers and

various other partial process apparatuses of a pulp process. Residual or reaction gases and/or gases harmful to the carrying out of a process or to the environment are separated from liquid or fiber pulp suspension by means of a deaerating pump which advances the flow of liquid or fiber pulp suspension, separates said gases from said liquid or fiber pulp and vents said gases to outside said process apparatus. The invention concerns in general the use of a deaerating pump for a variety of purposes in the pulp and paper industry for eliminating gas problems.

Classifications:

International (IPC 8-9): B01D19/00 D21D5/26 (Advanced/Invention); B01D19/00 D21D5/00 (Core/Invention)
International (IPC 1-7): B01D19/00 D21C7/06 D21C9/00 D21D5/26
CPC: B01D19/0052 D21D5/26
European: B01D19/00P4 D21D5/26
US: 162/56 210/168 210/188 95/19 95/243 95/261 96/207 96/214

PatBase - US5234480_A



Family:

Publication number	Publication date	Application number	Application date
FI904002 A	19920215	FI19900004002	19900814
FI904002 A0	19900814	FI19900004002	19900814
FI94440 B	19950531	FI19900004002	19900814
FI94440 C	19950911	FI19900004002	19900814
US5234480 A	19930810	US19910737049	19910729
WO9203611 A1	19920305	WO1991FI00246	19910813

Priority:

FI19900004002 19900814

Probable Assignee: ANDRITZ AHLSTROM OY

Assignee(s): (std): AHLSTROM OY

Assignee(s): AHLSTROM MACHINERY OY ; ANDRITZ AHLSTROM OY ; ANDRITZ AHLSTROM OY LARS SONCKIN KAARI ; A AHLSTROM CORP

Inventor(s): (std): HENRICSON KAJ ; PITKAENEN RAIMO ; PITKANEN RAIMO

Inventor(s): ILM

Designated states: AT BE CA CH DE DK ES FR GB GR IT JP LU NL SE

9) Family number: 8927864 (US5324166A)

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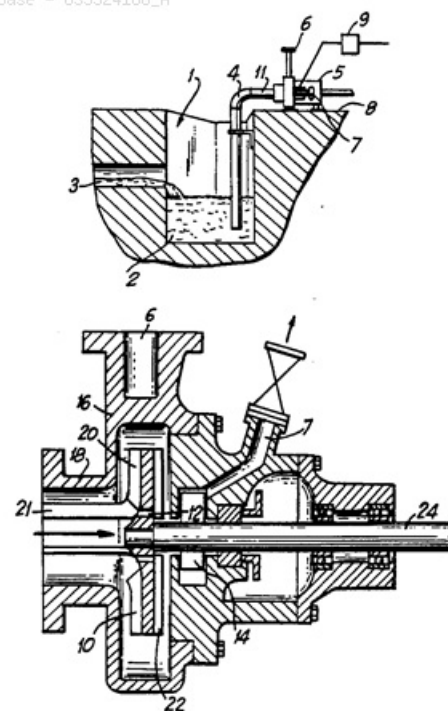
Title: Apparatus and method for pumping a liquid

Abstract: Source: US5324166A A system for simultaneously degassing and pumping a liquid from a source includes in combination a gaseous liquid source having a feed inlet for the liquid so as to form a liquid surface at a first level; a degassing pump for simultaneously degassing and pumping the liquid, the degassing pump includes a housing with a liquid inlet, and an outlet for a substantially gas-free flow and a gas discharge opening, a suction conduit having a first end connected to the pump inlet and a second outlet immersed in the liquid below the liquid surface. Preferably, the suction conduit is immersed in the liquid flow below the liquid surface and below the feed inlet.

Classifications:

International (IPC 8-9): B01D19/00 F04D13/00 F04D13/16 F04D31/00 F04D7/02 F04D7/04 F04D9/00 F04D9/04 (Advanced/Invention); B01D19/00 F04D13/00 F04D31/00 F04D7/00 F04D9/00 (Core/Invention)
International (IPC 1-7): D21D5/26 D21F1/66 F04D13/00 F04D29/70 F04D31/00 F04D7/02 F04D7/04 F04D9/00
CPC: B01D19/0052 F04D7/045 F04D9/041 F04D13/16
European: B01D19/00P4 F04D13/16 F04D7/04B F04D9/04B
US: 415/169.1 415/213.1 55/203 96/214

PatBase - US5324166_A



Family:

Publication number	Publication date	Application number	Application date
CA2089077 AA	19930208	CA19912089077	19910813
CA2089077 C	19950606	CA19912089077	19910813
EP0543853 A1	19930602	EP19910914158	19910813
FI110708 B	20030314	FI19900004004	19900814
FI904004 A	19920215	FI19900004004	19900814
FI904004 A0	19900814	FI19900004004	19900814
JP5508899 T2	19931209	JP19910513183T	19910813
US5324166 A	19940628	US19910737225	19910729
WO9203659 A1	19920305	WO1991FI00248	19910813

Priority:

FI19900004004 19900814 WO1991FI00248 19910813

Probable Assignee: SULZER PUMPS LTD

Assignee(s): (std): AHLSTR M PUMPUT OY ; AHLSTROEM A ; AHLSTROEM OY ; AHLSTROM A FINNISH CORP A ; SULZER PUMPEN AG

Assignee(s): MANNINEN HEIKKI ; A AHLSTROM A FINNISH CORP ; A AHLSTROM CORP ; A AHLSTROM OSAKEYHTIO ; AHLSTROM PUMPUT OY WILLIAM RUTHIN KATU ; AHLSTROM PUMPUT OY ; AHLSTROM A CORP ; HENRICSON KAJ ; ELONEN JORMA ; SULZER PUMPS LTD

Inventor(s): (std): ELONEN JORMA ; HENRICSON KAJ ; MANNINEN HEIKKI

Inventor(s): ILM

Agent(s): GOWLING LAFLEUR HENDERSON LLP

Designated states: AT BE CA CH DE DK ES FR GB GR IT JP LI LU NL SE

10) Family number: 8479315 (US5775103A)

© PatBase

Title: Apparatus for purifying a fluid by vacuum treatment

Abstract: Source: US5775103A PCT No. PCT/SE94/00378 Sec. 371 Date Mar. 21, 1996 Sec. 102(e) Date Mar. 21, 1996 PCT Filed Apr. 27, 1994 PCT Pub. No. WO94/28316 PCT Pub. Date Dec. 8, 1994A purification apparatus for removing gases and water from a fluid in a system, including a tank which has an expansion chamber for fluid in the system. A pump pumps the fluid in a circulation circuit of which the purification apparatus is an integral part. A closed chamber has a fluid-free upper part and contains a level-sensing device which controls flow of fluid to the closed chamber. The fluid-free upper part of the closed chamber is connected with a vacuum pump which sucks gases from the closed chamber and creates a lower pressure in the closed chamber than at an outlet of the apparatus. A pressure-generating device sucks fluid from the closed chamber.

Classifications:

International (IPC 8-9): B01D19/00 F15B21/04 (Advanced/Invention); B01D19/00 F15B21/00 (Core/Invention)

International (IPC 1-7): F15B21/04 F16D31/02

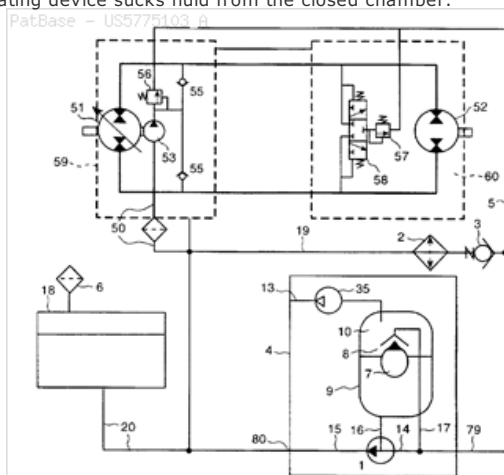
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F15B2211/20561 F15B2211/613

European: B01D19/00R B01D19/00S F15B21/04B F15B21/04D

R15B211/205D30 R15B211/610D

US: 60/453 60/454 60/488



Family:

Publication number	Publication date	Application number	Application date
AU199469015 A1	19941220	AU19940069015	19940427
CA2163247 AA	19951117	CA19942163247	19940427
CN1039739 C	19980909	CN19941092605	19940427
CN1126506 A	19960710	CN19941092605	19940427
CZ291498 B6	20030312	CZ19950003095	19940427
CZ9503095 A3	19960214	CZ19950003095	19940427
DE69429458 D1	20020124	DE19946029458	19940427
DE69429458 T2	20020613	DE19946029458T	19940427
EP0775264 A1	19970528	EP19940917225	19940427
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FI111564 B	20030815	FI19950005664	19951124
FI955664 A	19951204	FI19950005664	19951124
FI955664 A0	19951124	FI19950005664	19951124
JP3555685 B2	20040818	JP19950500524T	19940427
JP8510821 T2	19961112	JP19950500524T	19940427
NO305814 B1	19990726	NO19950004788	19951124
NO954788 A	19960124	NO19950004788	19951124
NO954788 A0	19951124	NO19950004788	19951124
SE9301768 A0	19930525	SE19930001768	19930525
SE9303680 A	19941126	SE19930003680	19931109
SE9303680 A0	19931109	SE19930003680	19931109
SE9303680 L	19941126	SE19930003680	19931109

US5775103 A	19980707	US19960553374	19960321
WO9428316 A1	19941208	WO1994SE00378	19940427

Priority:

SE19930001768 19930525 SE19930003680 19931109 WO1994SE00378 19940427

Probable Assignee: HAAKAN INGVAST PRODUKTUTVECKLING AB

Assignee(s): (std): HAKAN INGRAST ; HAKAN INGVAST ; INGVAST HAAKAN ; INGVAST HAKAN ; INGVAST HAAKAN ; INGVAST HOKAN ; HAAKAN INGVAST PRODUKTUTVECKLI

Assignee(s): HAAKAN INGVAST PRODUKTUTVECKLING AB

Inventor(s): (std): INGVAST HAAKAN ; INGVAST HAKAN ; INGVAST HAAKAN ; INGVAST HIKAN ; INGVAST HOKAN

Inventor(s): HAAKAN INGVAST ; HAKAN INGVAST ; HIKAN INGVAST

Agent(s): GOWLING LAFLEUR HENDERSON LLP

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KG KP KR KZ LK LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN TD TG TJ TT UA US UZ VN

11) Family number: 33528982 (JP10507400T)

© PatBase

Title: METHOD FOR DELIVERING A GAS-SUPERSATURATED FLUID TO A GAS-DEPLETED SITE AND USE THEREOF

Abstract: Source: JP10507400T How to injection without bubble formation or cavitation to gas deficient environment of relatively low pressure from the delivery system as (18) effluent bubble-free (4) gas supersaturated fluid. The method comprising the delivery system in removing (12) the cavitation nuclei, forming a gas supersaturated liquid at a high partial pressure of compression and (16) the liquid and gas, the process gas deficient through delivery systems of gas supersaturated liquids the environment without cavitation formation in the effluent, and a step of injecting to (18).

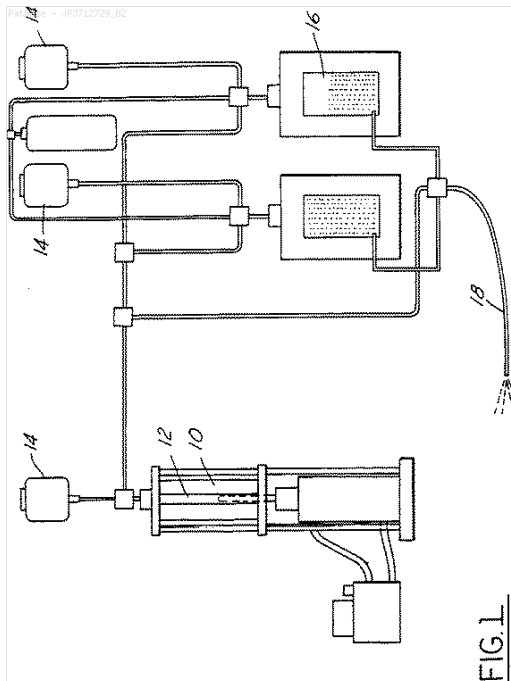
Classifications:

International (IPC 8-9): A23L2/54 A61K9/50 A61M1/14 A61M1/16 A61M1/32 A61M25/00 B01F1/00 B01F3/04 B01F3/08 B01J13/04 B08B3/10 B67C3/00 C01B13/00 C01B13/02 C01B5/00 C02F3/20 C12M1/04 D21C9/147 F17C7/00 (Advanced/Invention); A61M1/14 B01F1/00 B08B3/10 B67C3/00 C02F3/20 F17C7/00 (Advanced/Non-invention); A23L2/52 A61M1/14 B01F1/00 B01F3/04 B01F3/08 B08B3/10 B67C3/00 C01B13/00 C02F3/20 C12M1/04 D21C9/147 F17C7/00 (Core/Invention)

International (IPC 1-7): A61B19/00 A61M1/14 A61M1/34 A61M37/00 B01F1/00 B01F3/04 B08B3/10 B67C3/00 C02F3/20 F17C7/00

CPC: Y10S435/818 A61M1/28 D21C9/147 A23L2/54 A61K9/5089 A61M1/1678 A61M1/1698 A61M1/32 A61M25/0026 A61M25/007 A61M25/09 A61M2025/0057 A61M2202/0476 B01F3/04099 B01F3/04439 B01F3/04985 B01F3/0876 B01F2003/04879 B01F2003/04893 B01F2215/0034 B01F2215/0052 B01F2215/0075 B01F2215/0078 B01J13/04 C01B5/00 C01B13/00 C01B13/02

European: A23L2/54 A61K9/50P A61M1/16S A61M1/32 A61M25/00R1M A61M25/00T10C B01F3/04C2 B01F3/04C7B B01F3/04P B01F3/08F4 B01J13/04 C01B13/00 C01B13/02 C01B5/00 D21C9/147 K61M1/16E K61M1/32 K61M202/04N5 K61M25/00S5 K61M25/09 L01F215/00A40 L01F215/00A62 L01F215/00A90 L01F215/00A94 L01F3/04C L01F3/04C20B4C L01F3/04C20B6



Family:

Publication number	Publication date	Application number	Application date
AT227107 E	20021115	AT19950925307T	19950626
AU199529486 A1	19960209	AU19950029486	19950626
AU685651 B2	19980122	AU19950029486	19950626
DE69528766 D1	20021212	DE19956028766	19950626
DE69528766 T2	20030821	DE19956028766T	19950626
EP0767632 A1	19970416	EP19950925307	19950626
EP0767632 A4	19981209	EP19950925307	19950626
EP0767632 B1	20021106	EP19950925307	19950626
JP10507400 T2	19980721	JP19960504319T	19950626
JP3712729 B2	20051102	JP19960504319T	19950626

Priority:

US19940273652 19940712 WO1995US07991 19950626

Probable Assignee: UNIV WAYNE STATE

Assignee(s): (std): UNIV WAYNE STATE ; WAYNE STATE UNIV ; WAYNE STATE UNIV DETROIT ; WAYNE STATE UNIVERSITY DETROIT

Assignee(s): WAYNE STATE UNIVERSITY

Inventor(s): (std): JAMES RICHARD SPEARS ; SPEARS JAMES RICHARD ; SPEARS RICHARD

Agent(s): PHILLIPS ORMONDE FITZPATRICK

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

Title: ON-SITE GENERATION OF ULTRA-HIGH-PURITY BUFFERED-HF AND AMMONIUM FLUORIDE

Abstract: Source: US2001051128A Provided is a novel method and system for preparing ultra-high-purity buffered-hydrofluoric acid or ammonium fluoride controlled concentration. The method comprises bubbling purified ammonia vapor into ultra-pure hydrofluoric acid. The inventive method and system can be used as an on-site subsystem in a semiconductor device fabrication facility for supplying the buffered-hydrofluoric acid and ammonium fluoride to points of use in the semiconductor device fabrication facility.

Classifications:

International (IPC 8-9): B01D1/00 B01D15/00 B01D15/04 B01D3/00 B01D3/02 B01D3/14 B01D3/34 B01D53/14 B01F13/00 B01F15/02 B01F15/04 B01F3/04 B01F3/08 B01F5/10 B01J39/04 B05C11/10 B08B3/02 B08B3/08 B08B7/04 B44C1/22 C01B15/013 C01B21/46 C01B7/07 C01B7/19 C01C1/00 C01C1/02 C01C1/16 C03C15/00 C03C25/68 F04B13/00 F04B49/00 F04C19/00 F17D1/08 F26B7/00 G01N1/14 G01N31/00 G01N9/36 G05D11/03 G05D11/13 G05D21/00 G05D21/02 H01L21/00 H01L21/30 H01L21/302 H01L21/304 H01L21/306 H01L21/311 H01L21/67 (Advanced/Invention); B01D1/00 B01D15/04 B01D3/00 B01D3/14 B01J39/04 B08B7/04 C01B15/013 C01B7/07 C01B7/19 C01C1/02 F04B13/00 F26B7/00 G05D11/13 G05D21/02 H01L21/00 H01L21/306 (Advanced/Non-invention);

B01D1/00 B01D15/00 B01D15/04 B01D3/00 B01D3/14 B01D53/14

B01F15/02 B01F15/04 B01J39/00 B08B3/02 B08B3/08 B08B7/04

B44C1/22 C01B15/00 C01B21/00 C01C1/00 C03C15/00 F04B49/00 F04C19/00 F26B7/00 G05D11/00 G05D21/00

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G05D11/13 H01L21/00 H01L21/02 H01L21/67 (Core/Non-invention)

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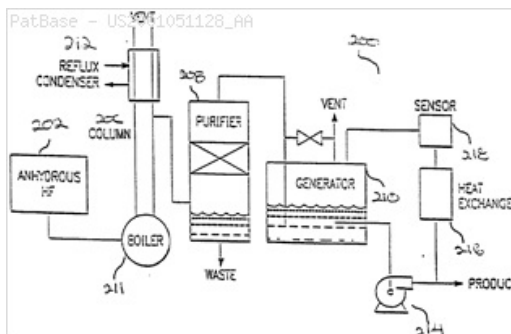
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US: 134/10 134/102.1 134/105 134/111 134/61 134/902 137/1 137/3 137/3S 137/4 137/5 137/88 137/92 137/93 137/93S 156/345.11 156/345.110S 159/47.1 159/471 202/158 202/161 202/168 202/172 202/180 202/181 202/182 202/185.1 202/200 202/202 203/12 203/13 203/39 203/40 203/42 203/43 203/46 203/61 203/75 203/86 203/96 203/99 203/DIG.16 210/101 210/198.1 210/198.100P 210/900 210/96.1 210/96.100P 216/84 216/84P 252/79.3 252/79.300P 257/E21.219 257/E21.219S 257/E21.223 257/E21.223S 257/E21.228 257/E21.228S 29/25.01 366/131 366/131S 366/132 366/132P 366/132S 366/134 366/134S 366/136 366/136P 366/140 366/140P 366/141 366/142 366/142S 366/151.1 366/152.1 366/152.2 366/152.3 366/152.300 366/152.300S 366/152.4 366/152.400P 366/152.400S 366/160.1 366/160.5 366/348 366/348S 417/295 417/295P 417/68 422/119 422/119S 422/129 422/129P 422/187 422/187S 422/189 422/189S 422/600 422/600S 423/237 423/238 423/352 423/47 423/470 423/470P 423/470S 423/471 423/471S 423/483 423/483S 423/484 423/484S 423/488 423/488S 437/225 437/250 438/5 438/5S 438/749 438/749S 55/220 700/265 95/211 95/214 95/226 95/230 95/232 95/273 95/285

Family:

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Probable Assignee: AIR LIQUIDE ELECTRONICS US LP

Assignee(s): (std): AIR LIQUIDE ; AIR LIQUIDE AMERICA L P ; AIR LIQUIDE ELECTRONICS CHEMIC ; AIR LIQUIDE AMERICAN CORP ; AIR LIQUIDE AMERICAN ; AIR LIQUIDE ELECTRONICS U S LP ; AIR LIQUIDE ELECTRONICS US LP ; AIR LIQUIDE ELECTRONICS SYS ; HOFFMAN JOE G ; CLARK R SCOT ; JONES ALLEN H JR ; L AIR LIQUIDE SOC ANONYME A DIRECTOIRE ET CONS ; STARTED VENTURES INC ; YUAN WALLACE I ; STARTEC VENTURES INC ; URQUHART KARL J ; PROCEDES GEORGES CLAUDE L AIR ; SOULET AXEL ; GUARNERI GEORGES ; MARC JEAN LOUIS ; FANJAT NORBERT ; LANGELLIER LAURENT ; COLIN CHRISTOPHE ; GUARNERI GEORGE ; URQUART KARL J

Assignee(s): AIR LIQUIDE AMERICA CORP ; L AIR LIQUIDE SOC ANONYME POUR L ETUDE ET L EXPLOI ; THOMPSON JOHN B ; PROFIL BE ; L AIR LIQUIDE SOC ANONYME A DIRECTOIRE ET CONSEIL DE SURVEILLANCE POUR L ETUDE ET L EXPLOITATION ; L AIR LIQUIDE SOC ANONYME POUR L ETUDE ET L EXPLOITATION DES PROCEDES GEORGES CLAUDE ; DES PROCEDES GEORGES CLAUDE L AIR LIQUIDE SOCIETEANONYME A DIRECTOIRE ET CONSEIL DE SURVEILLANCE POUR L ETUDE ET L EXPLOITATION ; L AIR LIQUIDE SOC ANONYME A DIRECTOIRE ET CONSEIL DE SURVEILLANCE POUR L ETUDE ET L EXPLOITATION DES PROCEDES GEORGES CLAUDE ; L'AIR LIQUIDE SOC ; L'AIR LIQUIDE SOC ; L'AIR LIQUIDE SOC ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE ; L AIR LIQUIDE SOC ANONYME A DIRECTOIRE ET CONSEIL ; DES PROCEDES GEORGES CLAUDE L AIR LIQUIDE SOC ; L AIR LIQUIDE SOC ; DES PROCEDES GEORGES CLAUDE L AIR LIQUIDE SOCIETEA ; AIR LIQUIDE ELECTRONICS SYSTEMS ; AIR LIQUIDE ELECTRONICS SYSTEMS SA ; CLARK R ; AMERICAN AIR LIQUIDE INC ; AIR LIQUIDE ELECTRONICS CHEMICALS AND SERVICES INC ; AIR LIQUIDE AMERICA LP ; AIR LIQUIDE AMERICA CORP ; AIR LIQUIDE AMERICA CORP HOUSTON

Inventor(s): (std): GUARNERI GEORGES ; HOFFMAN J G ; LANGELLIER LAURENT ; MARC JEAN LOUIS ; FRANJAT NORBERT ; FANJAT NORBERT ; COLIN CHRISTOPHE ; CLARK R S ; JG HOFFMANN ; JG HOFFMAN ; J G HOFFMAN ; HOFFMAN G ; GUARNERI GEORGE ; CLARK SCOT R ; ALLEN H JONES JR ; YUAN W I ; XU MINDI ; WANG HWA CHI ; YUAN WALLACE I ; W I YUAN ; RS CLARK ; URQUHART KARL J ; URQUART KARL J ; THOMPSON JOHN B ; R S CLARK ; SOULET AXEL ; NORBERT FANJAT ; LAURENT LANGELLIER ; JONES JR

ALLEN H ; JONES ALLEN H JR ; HOFFMANN J G ; HOFFMAN JOE G ; GEORGE GUARNERI ; JEAN LOUIS MARC ; JACKSIER TRACEY ; CLARK R SCOT ; CHRISTOPHE COLIN ; CLARK R SCOTT

Inventor(s): URQUHART KARL ; J G HOFFMANN ; HOFFMAN JOE ; JONES ALLEN H ; JOE G HOFFMAN ; LANGELLIER LAURENT AND ; MARC, JEAN-LOUIS ; R SCOT CLARK ; THOMPSON JOHN ; WALLACE I YUAN ; CLARK R

Agent(s): CONAN PHILIPPE CLAUDE; LINDA K RUSSELL AIR LIQUIDE; AIR LIQUIDE; AIR LIQUIDE INTELLECTUAL PROPERTY DEPT; AIR LIQUIDE,INTELLECTUAL PROPERTY; AIR LIQUIDE INTELLECTUAL PROPERTY; CLARK BRANDON; BRANDON; PATRICIA E

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

13) Family number: 17998685 (DE19622184A1)

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Title: PORTABLE DEVICE FOR LONG TERM PERFUSION OF HUMAN AND ANIMAL TISSUE E.G. HEART LUNG KIDNEY AND LIVER MACHINE

Abstract: Source: DE19622184A1 The device has a blood pump (1) which pumps the perfusion fluid e.g. blood from a large circuit with organ containers for the organs to be perfused, into a small circuit with an oxygenator (6) for gas exchange. The blood pump (1) also pumps back from the small circuit to the large circuit. The device also includes an easily exchangeable, blood conveying, re-usable organ container (OHB). The organs which replace the natural organs e.g. the heart, lungs, kidney and liver, such as the blood pump (1), oxygenator (6), dialyser (7) and liver substitute organ (10) all have small dimensions and weight and are combined together into a portable device and are driven together. These artificial organs are connected together for uninterrupted ventilation with uninterrupted blood flow although the organs can be used individually or together as required. The organs are arranged for uninterrupted, optimal blood flow. To reduce the required blood pressure of the pump (1) the organs e.g. active oxygenator (6) have their own internal pump and recycling function. The surfaces over which blood pass have pores along their length. Through these pores, with high hydraulic resistance preventing the blood passing through, an active blood thickening substance is added to the blood. The flow rate of the blood in the problematic area of the artificial blood vessel wall is thus increased within strict limits. The blood pump (1) and the blood conveying parts, the separately exchangeable liver module, the battery and the computer with keyboard are easily replaceable components of the device to provide a live support perfusion function. These artificial organs (6,7,10) can also be fitted into a safe, self controlling light device in a compact housing (56).

Classifications:

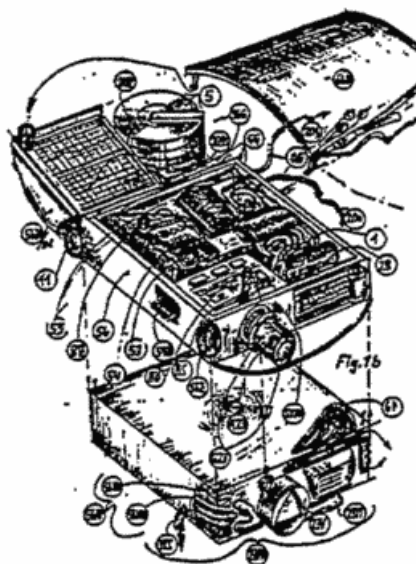
International (IPC 8-9): A61M1/10 A61M1/36 (Advanced/Invention); A61M1/10 A61M1/36 (Core/Invention)

International (IPC 1-7): A61B5/14 A61H39/00 A61M1/00 A61M1/10 A61M1/14 A61M1/36 A61M25/00 A61M29/00 A61M39/22 F04B23/00 F04B43/00 G06F159/00 G06F19/00

CPC: A61M1/3621 A61M1/26 A61M1/10 A61M1/1006

European: A61M1/10 A61M1/36C

PatBase - DE19622184_A1



Family:

Publication number	Publication date	Application number	Application date
DE19622184 A1	19971204	DE19961022184	19960603

Priority:

DE19961022184 19960603

Probable Assignee: MARTENS JOERN

Assignee(s): (std): MARTENS JOERN

Assignee(s): MARTENS JOERN 27711 OSTERHOLZ SCHARMBECK DE

Inventor(s): (std): MARTENS JOERN

Inventor(s): MARTENS JOERN 27711 OSTERHOLZ SCHARMBECK DE

14) Family number: 11230444 (US5945460A)

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Title: PROCESS FOR CONTINUOUSLY PRODUCING POLYESTER ARTICLES WITH SCRAP RECYCLE IN A CONTINUOUS MELT-TO-PREFORM PROCESS

Abstract: Source: US5945460A A process for producing polyester articles, which generates little or no polyester waste. The process provides esterification or transesterification of one or more dicarboxylic acids or their dialkyl esters, polycondensation to produce a high molecular weight polyester, and molding or shaping of the polyester for produce the desired product. Scrap produced during the molding process is recycled back to the esterification or transesterification or polycondensation portion of the process. Optionally, the scrap may also be recycled to intermediate steps prior to the

molding operation.

Classifications:

International (IPC 8-9): B29B17/00 B29C31/00 B29C45/18 B29C45/53 B29C45/54 B29C45/63 B29C47/00 B29C47/50 B29C47/76 B29C67/24 C08G63/78 C08G63/88 C08J11/04 C08J11/06 (Advanced/Invention); B29C31/00 B29K67/00 C08G63/88 C08L67/02 (Advanced/Non-invention); B29B17/00 B29C31/00 B29C45/18 B29C45/53 B29C45/58 B29C47/00 B29C47/38 B29C47/76 B29C67/24 C08G63/00 C08J11/00 (Core/Invention); C08L67/00 (Core/Non-invention)

International (IPC 1-7): B29B17/00 B29C31/00 B29C47/10 B29C47/38 B29C47/50 B29C47/76 C08G63/88 C08G63/88 C08J11/04 C08J11/06 C08L67/02

CPC: B29C47/364 B29C47/38 B29C47/0014 B29C47/0019 B29C2045/545 C08G63/785 B29C45/54 B29C47/0009 C08G63/88 B29B7/88 Y02W30/62 B29C47/367 B29B17/0005 B29C45/1816 B29C45/63 B29C47/0004 B29C47/0023 B29C47/368 B29C67/246 B29C2045/1883 B29K2067/00 B29K2105/0002 C08G63/78 Y02P20/582 Y02P20/125

European: B29B17/00B B29C45/18C B29C45/54 B29C45/63 B29C47/00B B29C47/36L4 B29C47/36L6 B29C67/24D C08G63/78 C08G63/78A C08G63/88 L29C45/18G L29C45/54E L29K105/00C L29K67/00

US: 159/2.2 264/102 264/211.21 264/211.23 264/297.2 264/328.19 264/328.8 264/85 425/145 425/203 425/204 425/207 425/209 425/559 425/572 425/588 521/48 521/48.5 528/272 528/483 528/492 528/501

PatBase - US5945460_A

U.S. Patent

Aug. 31, 1999

5,945,460

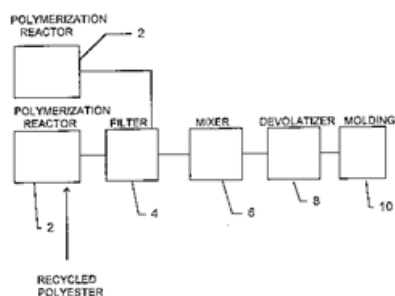


FIGURE 1

Family:

Publication number	Publication date	Application number	Application date
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WO9841559 A1	19980924	WO1998US05401	19980319
WO9841560 A1	19980924	WO1998US05479	19980319

Priority:

US19970041056P 19970320 US19970957522 19971024 US19970957542 19971024
US19970957574 19971024 WO1998US05401 19980319 WO1998US05403 19980319
WO1998US05479 19980319 US19970957576 19971024 WO1998US05402 19980319

Probable Assignee: GRUPO PETROTEMEX DE CV SA

Assignee(s): (std): EASTMAN CHEM CO

Assignee(s): EASTMAN CHEMICAL CO ; EASTMAN CHEMICAL CO KINGSPOOT ; EASTMAN CHEMICAL COMPANY ; EKART MICHAEL PAUL ; GRUPO PETROTEMEX DE CV SA ; SHELBY MARCUS DAVID ; OLSEN ERIC GRAY ; TREECE LANNEY CALVIN ; WEINHOLD STEPHEN ; CARROLL MAX LAMAR JR

Inventor(s): (std): EKART MICHAEL PAUL ; EKART PAUL ; TREECE CALVIN ; TREECE LANNEY CALVIN ; WEINHOLD STEPHEN ; TREECE L C ; SHELBY M D ; OLSEN E G ; OLSEN ERIC GRAY ; OLSEN GRAY ; SHELBY DAVID ; SHELBY MARCUS DAVID ; CARROLL MAX LAMAR ; CARROLL JR MAX LAMAR ; AL M D SHELBY ET ; CARROLL LAMAR ; CARROLL MAX LAMAR JR

Inventor(s): E G OLSEN ; MD SHELBY ; STEPHEN WEINHOLD ; MD SHELBY ET AL ; M D SHELBY ET AL ; LC TREECE ; EG OLSEN ; ERIC GRAY OLSEN ; L C TREECE ; LANNEY CALVIN TREECE ; M D SHELBY ; MARCUS DAVID SHELBY ; MAX LAMAR CARROLL JR ; MICHAEL PAUL EKART

Agent(s): PHILLIPS ORMONDE FITZPATRICK; GOWLING LAFLEUR HENDERSON LLP

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU ID IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW

15) Family number: 14940833 (US6169121B)

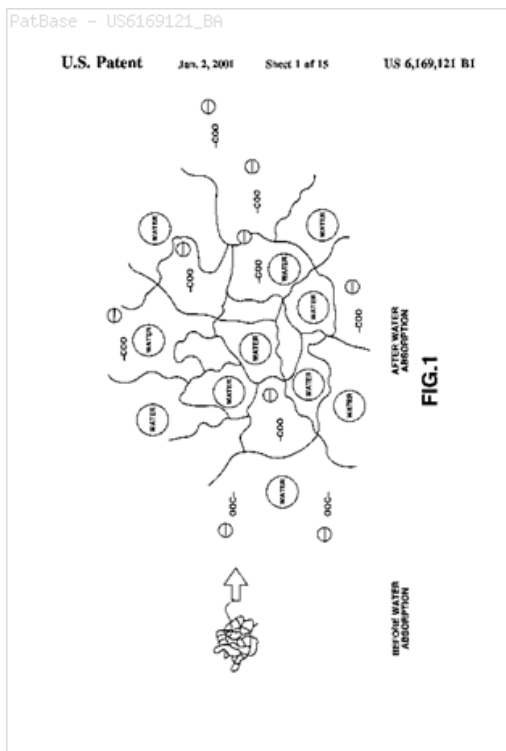
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Title: METHOD AND APPARATUS FOR RECYCLING STYRENE RESIN

Abstract: Source: US6169121B There is provided a processing method for effectively and promptly removing insoluble components contained in a solution of a styrene resin waste material to enable regeneration of high-quality regenerated styrene. To this end, a solution of the styrene resin waste material in an organic solvent is processed with, for example, a dehydrating agent, to remove insoluble components. The resulting clarified solution is degasified on heating in vacuum to remove the organic solvent for recycling the resulting mass as a regenerated styrene resin. The insoluble components include foreign matter, such as moisture, sludge and colorant agents. By this processing method, it becomes possible to recycle high-quality regenerated styrene.

Classifications:

International (IPC 8-9): B03C5/00 B09B3/00 B29B17/00 C08F112/08 C08J11/08 C08L25/04 C10G1/00 (Advanced/Invention); B29K105/04 B29K105/26 C08L25/04 (Advanced/Non-invention); B03C5/00 B09B3/00 B29B17/00 C08J11/00 C08L25/00 C10G1/00 (Core/Invention); C08L25/00 (Core/Non-invention)
International (IPC 1-7): B01J19/08 B03C5/00 B09B3/00 B29B17/00 B29K105/04 B29K105/26 C08F112/08 C08J11/04 C08J11/08 C08L25/00 C08L25/04 C08L25/06 C10G1/00
CPC: Y02W30/701 Y02W30/62 Y02W30/20 C08J11/08 C08J2325/06
European: C08J11/08 M08J325/06
US: 264/40.2 264/402 422/186 521/47 528/497 528/502 528/502R



Family:

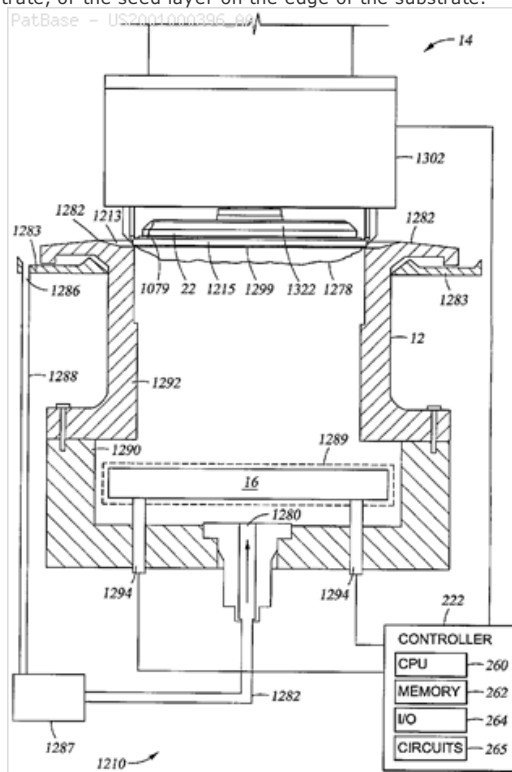
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JP3752845 B2	20060308	JP19980171857	19980618
US6169121 BA	20010102	US19990332039	19990614

Priority:

CA19992274397 19990611 JP19980171857 19980618 JP19980171858 19980618
JP19980209432 19980724

Agent(s): GOWLING LAFLEUR HENDERSON LLP; KOIKE AKIRA; IGA SEIJI; TAMURA EIICHI

US: 118/428 118/500 118/500S 118/503 118/503S 134/1.3 134/1.300S 134/147 134/153 134/25.4 134/254 134/33 134/56 134/56.00R 134/56.00S 134/56R 134/902 156/345 156/345.11 156/345.110S 156/345.15 156/345.150S 156/345.18 156/345.180S 156/345.29 156/345.290S 204/198 204/199 204/199S 204/212 204/224M 204/224R 204/225 204/224/227 204/228.1 204/228.100S 204/229.8 204/230.2 204/230.200S 204/232 204/237 204/238 204/240 204/242 204/252 204/261 204/263 204/263S 204/264 204/264S 204/266 204/266S 204/267 204/269 204/270 204/271 204/273 204/274 204/274S 204/275 204/275.1 204/275.100S 204/276 204/278 204/278.5 204/279 204/282 204/286.1 204/287 204/292 204/297.01 204/297.03 204/297.08 204/298.02 205/102 205/102S 205/103 205/118 205/134 205/137 205/143 205/143S 205/148 205/157 205/202 205/223 205/223S 205/335 205/640 205/669 205/687 205/775 205/788.5 205/80 205/80P 205/84 205/95 205/95P 205/96 205/96S 216/100 216/100S 216/105 216/105S 216/2 216/2P 216/83 216/83S 216/92 216/92P 248/559 248/560 248/562 248/636 248/637 248/638 248/651 248/654 248/678 257/E21.175 257/E21.175S 257/E21.309 257/E21.309S 29/428 29/592.1 427/294 427/294S 427/299 427/299S 427/300 427/300S 427/430.1 427/99.5 438/478 438/478P 438/748 438/748S 438/754 438/754S 74/490.01 74/490.02 901/15 901/21



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Priority:

JP20000585464	19991129	US19980110209P	19981130	US19980201486	19981130
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Probable Assignee: APPLIED MATERIALS INC

Assignee(s): (std): APPLIED MATERIALS INC ; STEVENS JOSEPH J ; HEY H PETER W ; DORDI YEZDI N

Assignee(s): MOK YEUK FAI EDWIN ; TRAQ WIRELESS INC ; KO ALEXANDER ; APPLIED MATERIALS INC A CORP OF DELAWARE ; APPLIED MIATERIALS INC ; DONOSO BERNARDO

Inventor(s): (std): ALEXANDER S KO ; BIRKMAIER GEORGE ; CARL DAN ; CHEUNG ROBIN ; DONALD OLGADO ; DONOSO BERNARDO ; DORDI YEZDI N ; FRANKLIN TIMOTHY J ; HAO HENAN ; HEY H PETER W ; JOE STEVENS ; JOSEPH STEVENS ; KO ALEX ; KO ALEXANDER ; LLOYD LEGAL REPRESENTATIVE ANN ; MALIK MUHAMMAD ATIF ; MAROHL DAN ; MOK YEUK FAI EDWIN ; OLGADO DONALD ; OLGADO DONALD J K ; PETER HAY ; RADHA NAYAK ; RAVINOVICH EUGENE ; SHIN HO SEON ; SINHA ASHOK K ; STEVENS JOE ; STEVENS JOSEPH J ; SUGARMAN MICHAEL N ; TEPMAN AVI ; YEUK FAI EDWIN MOK ; YEZDI DORDI ; SUGARMAN MICHAEL ; STEVENS JOSEPH ; SHEN BEN ; OLGADO DONALD J ; MORAD RATSON ; LLOYD MARK DI ; LLOYD MARK ; LLOYD ANNA MARIE ; KO ALEXANDER S ; HEY PETER ; DORDI YEZDI ; DENOME MARK ; SHIN HO S ; NAYAK RADHA ; LLOYD ANNA M

Inventor(s): HEY H ; LLOYD LEGAL REPRESENTATIVE ANNA MARIE ; DONALD J. K. OLGADO ; DENOME MARK AND ; LLOYD ANNA ; SINHA ASHOK ; SHIN HO ; OLGADO DONALD JK ; FRANKLIN TIMOTHY H

Agent(s): BAYLISS GEOFFREY CYRIL ET AL; PATTERSON AND SHERIDAN LLP; MOSER PATTERSON AND SHERIDAN; PATTERSON AND SHERIDAN

Designated states: AL AT BE CH CN CY DE DK ES FI FR GB GR IE IT JP KR LI LT LU LV MC MK NL PT RO SE SG SI TR

17) Family number: 15548246 (JP2001070707A)

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Title: DEGASSING APPARATUS

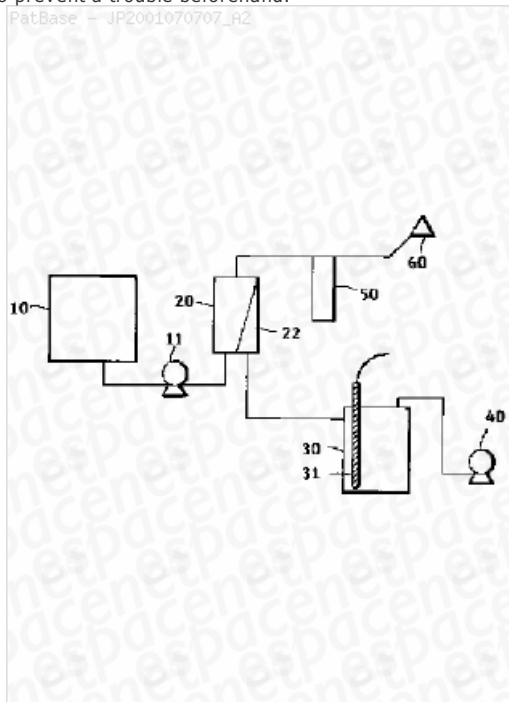
Abstract: Source: JP2001070707A PROBLEM TO BE SOLVED: To quickly detect liquid leakage and to prevent a trouble beforehand by attaching a liquid leakage sensor to a buffer tank or a pipeline connected to the vacuum side of a membrane degassing apparatus using a gas permeable film for removing a dissolved gas from a liquid to be applied. SOLUTION: A tank 10 storing a coating liquid is connected with a membrane degassing apparatus 20 through a liquid sending pump 11 and a degassing membrane 22 of a gas permeable film is installed in the inside. A buffer tank 30 is connected with the vacuum side of the membrane degassing apparatus 20 and a vacuum pump 40 is connected to the buffer tank. On the other hand, the liquid outlet side of the membrane degassing apparatus 20 is joined to a coating apparatus 60 through a filtration apparatus 50. In this case, a liquid leakage sensor 31 is attached to the inside of the buffer tank 30. Consequently, at the time when the coating liquid leaks owing to break of the degassing membrane 22, the coating liquid is led down to the bottom part of the buffer tank 30 and quickly detected by the liquid leakage sensor 31 to prevent a trouble beforehand.

Classifications:

International (IPC 8-9): B01D19/00 B01D53/22 (Advanced/Invention); B01D19/00 B01D53/22 (Core/Invention)

International (IPC 1-7): B01D19/00 B01D53/22

PatBase - JP2001070707_R2



Family:

Publication number	Publication date	Application number	Application date
JP2001070707 A2	20010321	JP19990255074	19990909

Priority:

JP19990255074 19990909

Probable Assignee: FUJII PHOTO FILM CO LTD

Assignee(s): (std): FUJII PHOTO FILM CO LTD

Inventor(s): (std): HAYASHI KENJI

18) Family number: 19955658 (US2002030012A)

© PatBase

Title: COMPREHENSIVE WASTE TREATMENT SYSTEM AND RELATED METHODS FOR ANIMAL FEEDING OPERATIONS TO

Abstract: Source: US2002030012A A process is provided to create a treated recycle stream through pre-treatment and solids separation for reuse in animal feeding operations without odors and creates a treated liquid effluent that can be stored for reuse, or can be land applied without odors and is free from pathogens and nutrients. Additionally the methods describe a means of converting animal manure to organic fertilizer and removing nutrients from the liquids to create a feed supplement from biomass. The organic fertilizer is non-leaching and free from pathogens. The entire process is accomplished in a reduced footprint from other treatment processes and allows waste ponds to be removed from service.

Classifications:

International (IPC 8-9): C02F1/52 C02F9/00 (Advanced/Invention); C02F1/24 C02F1/74 C02F11/12 C02F3/02 (Advanced/Non-invention); C02F1/52 C02F9/00 (Core/Invention); C02F1/24 C02F1/74 C02F11/12 C02F3/02 (Core/Non-invention)

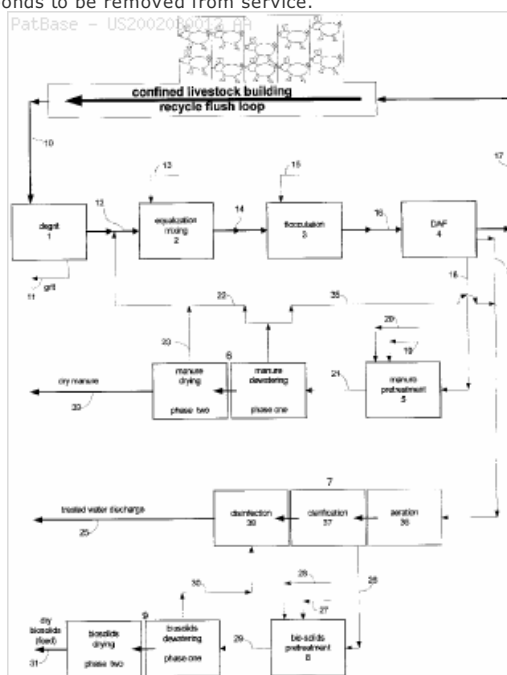
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CPC: Y02W10/15 C02F9/00 C02F1/24 C02F1/5236 C02F1/74

C02F3/02 C02F11/12 C02F2103/20 C02F2209/06

European: C02F1/52F C02F9/00 M02F1/24 M02F1/52F M02F1/74 M02F103/20 M02F11/12 M02F209/06 M02F3/02

US: 210/195.1 210/199 210/202 210/631 210/705 210/709 210/712 210/724 210/743



Family:

Publication number	Publication date	Application number	Application date
US2002030012 AA	20020314	US20010837924	20010418

Priority:

US20000198409P 20000419 US20010837924 20010418

Probable Assignee: CROCCO GREGG ANTHONY

Assignee(s): (std): CROCCO GREGG ANTHONY ; SULLIVAN JOHN MICHAEL

Inventor(s): (std): CROCCO GREGG ANTHONY ; SULLIVAN JOHN MICHAEL

19) Family number: 32021889 (US2005137367A)

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Title: OLEFIN POLYMERIZATION CATALYST SYSTEM

Abstract: Source: US2005137367A This invention relates to a catalyst precursor compound comprising a tridentate phenoxy-amide-amine group bound to a group 3 to 12 metal or lanthanide metal. In particular, this invention relates to a catalyst precursor compound represented by the formula: wherein: M is a group 3 to group 12 transition metal or lanthanide metal, provided however N¹ is not part of a pyridine ring when M is a group 8, 9, or 10 metal; Q is oxygen or sulfur; N is nitrogen; N¹ is nitrogen; R₁, is a hydrogen, a hydrocarbyl, a substituted hydrocarbyl, a halocarbyl, a substituted halocarbyl, a heteroatom or heteroatom containing group; R₂ and R₃ are independently, a hydrogen, a halogen, a hydrocarbyl, a substituted hydrocarbyl, a halocarbyl, or a substituted halocarbyl, a heteroatom or heteroatom containing group and R₂ and R₃ together may form a multidentate ligand, such as a bidentate dianionic ligand; R₄ is hydrogen, a hydrocarbyl, a substituted hydrocarbyl, a halocarbyl, a substituted halocarbyl, a heteroatom or heteroatom containing group; R₅ is a hydrogen, a hydrocarbyl, a substituted hydrocarbyl, a halocarbyl, a substituted halocarbyl, a heteroatom or heteroatom containing group; R₆, R₇, and R₈ are, independently, a hydrogen, a hydrocarbyl, a substituted hydrocarbyl, a halocarbyl, a substituted halocarbyl, a heteroatom or heteroatom containing group, and any two of R₁, R₆, R₇, and R₈ may form a fused ring system; each R₉, independently, hydrogen, a hydrocarbyl, a substituted hydrocarbyl, a halocarbyl, a substituted halocarbyl group, or a heteroatom or heteroatom containing group; R₁₀ is a hydrocarbyl, a substituted hydrocarbyl, a halocarbyl, a substituted halocarbyl group, or a heteroatom or heteroatom containing group; where any two adjacent R groups may form a ring structure.

Classifications:

International (IPC 8-9): C07F7/00 C07F7/28 C08F10/00 C08F210/06 C08F210/18 C08F4/42 C08F4/52 C08F4/60

C08F4/642 (Advanced/Invention);

C08F4/659 (Advanced/Non-invention);

C07F7/00 C08F10/00 C08F210/00 (Core/Invention);

C08F4/00 (Core/Non-invention)

International (IPC 1-7): B01J31/00 C07F13/00 C07F5/00 C08F10/00 C08F4/44 C08F4/642

CPC: C07F7/00 C07F7/006 C07F7/28 C08F4/65908 C08F4/65912

C08F10/00 C08F210/06 C08F210/18

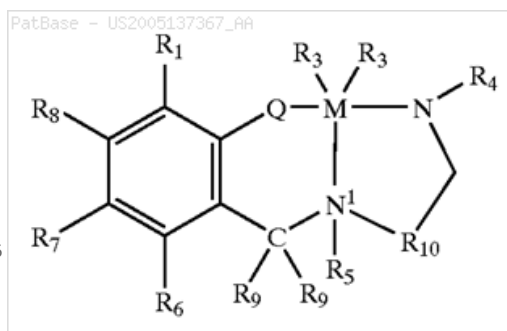
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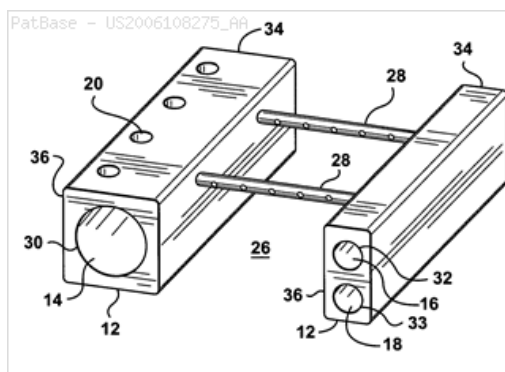
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556/50 556/50S 556/51 556/56 556/56S



Publication number	Publication date	Application number	Application date
AT407154 E	20080915	AT20040810364T	20041105
DE602004016391 D1	20081016	DE200460016391T	20041105
EP1709087 A1	20061011	EP20040810364	20041105
EP1709087 B1	20080903	EP20040810364	20041105
US2005137367 AA	20050623	US20030744297	20031222
US7045583 BB	20060516	US20030744297	20031222
WO05068514 A1	20050728	WO2004US36845	20041105

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ
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ZA ZM ZW



Publication number	Publication date	Application number	Application date
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WO06047890 A1	20060511	WO2005CA01705	20051108

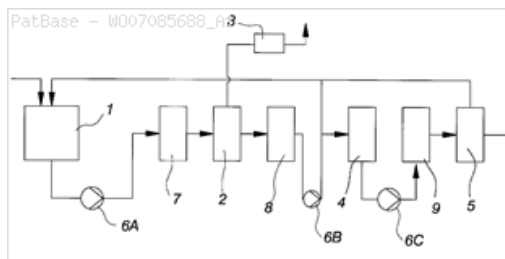
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Title: METHOD FOR PROCESSING AND SUPPLYING A COATING COLOUR USED FOR COATING A FIBROUS WEB TO A COATING DEVICE

Abstract: The invention relates to a method for processing and supplying coating colour used for coating a fibrous web to a coating device (5). In the method, the coating colour from coating colour production is delivered to a storage tank (1), from where it is taken to the degassing stage (2), and from there further to a supply tank (4) arranged in conjunction with the coating device (5).

Classifications:

International (IPC 8-9): B05C11/10 B05C21/00 B05D3/00 B05D3/12 B05D7/00 D21H23/22 D21H23/78 (Advanced/Invention); B05C11/10 B05C21/00 B05D3/00 B05D3/12 B05D7/00 D21H23/00 (Core/Invention); D21H (Subclass/Invention)
CPC: D21H23/22 B05C11/10 D21H23/78
European: D21H23/22



Family:

Publication number	Publication date	Application number	Application date
AT502698 E	20110415	AT20070700266T	20070103
CN101356015 A	20090128	CN200780001151	20070103
CN101356015 B	20110727	CN200780001151	20070103
DE602007013350 D1	20110505	DE200760013350T	20070103
EP1976645 A1	20081008	EP20070700266	20070103
EP1976645 B1	20110323	EP20070700266	20070103
FI121122 B	20100715	FI20060005055	20060126
FI20065055 A	20070727	FI20060005055	20060126
FI20065055 A0	20060126	FI20060005055	20060126
JP2009516582 T2	20090423	JP20080540645T	20070103
JP4897823 B2	20120314	JP20080540645T	20070103
WO07085688 A1	20070802	WO2007FI50001	20070103

Priority:

FI20060005055 20060126 WO2007FI50001 20070103

Probable Assignee: METSO PAPER INC

Assignee(s): (std): FORSTEN ESA ; KESTI EERO ; METSO PAPER INC

Inventor(s): (std): FORSTEN ESA ; KESTI EERO ; ESA FORSTEN ; EERO KESTI

Agent(s): SCHMID WOLFGANG

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM 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 IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

22) Family number: 42901434 (US2009032446A)

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Title: MOBILE STATION AND METHODS FOR DIAGNOSING AND MODELING SITE SPECIFIC EFFLUENT TREATMENT FACILITY REQUIREMENTS

Abstract: Source: US2009032446A A mobile station and methods are disclosed for diagnosing and modeling site specific effluent treatment facility requirements to arrive at a treatment regimen and/or proposed commercial plant model idealized for the particular water/site requirements. The station includes a mobile platform having power intake, effluent intake and fluid outflow facilities and first and second suites of selectably actuatable effluent pre-treatment apparatus. An effluent polishing treatment array is housed at the station and includes at least one of nanofiltration, reverse osmosis and ion-exchange stages. A suite of selectively actuatable post-treatment apparatus are housed at the station. Controls are connected at the station for process control, monitoring and data accumulation. A plurality of improved water treatment technologies are also disclosed.

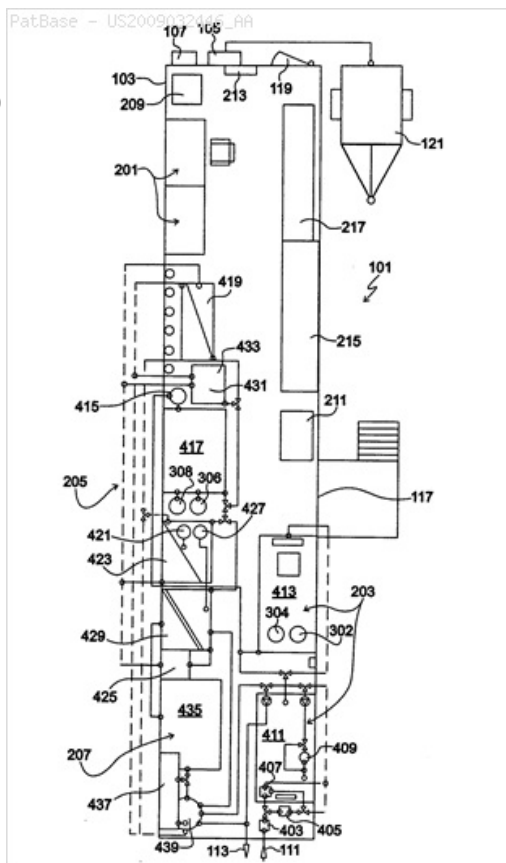
Classifications:

International (IPC 8-9): B01D17/06 B01D17/12 B01D19/00 B01D19/02 B01D21/24 B01D36/00 B01D61/02 B01D63/02 B01D63/16 B01D65/02 B03C5/02 B03D3/06 B23H3/04 C02F1/00 C02F1/20 C02F1/24 C02F1/28 C02F1/32 C02F1/40 C02F1/42 C02F1/44 C02F1/46 C02F1/461 C02F1/463 C02F1/469 C02F1/52 C02F1/66 C02F1/68 C02F11/00 C02F3/02 C02F3/04 C02F3/08 C02F9/00 C02F9/02 C02F9/06 C25B11/12 C25B9/00 G05B13/04 (Advanced/Invention); B01D61/02 C02F1/00 C02F1/20 C02F1/38 C02F1/42 C02F1/44 C02F1/52 C02F1/66 C02F3/08 (Advanced/Non-invention); B01D17/00 B01D19/00 B01D19/02 B01D36/00 B01D63/16 B01D65/00 B03C5/00 B03D3/00 B23H3/00 C02F1/00 C02F1/40 C02F1/44 C02F1/461 C02F1/463 C02F1/68 C02F11/00 C02F3/02 C02F3/04 C02F9/00 C02F9/02 C25B11/00 C25B9/00 (Core/Invention)
CPC: B01D66/02 B01D61/02 C02F2209/005 C02F1/44 C02F1/32 C02F1/28 C02F2201/4612 C02F1/008 C02F1/20 C02F1/42 C02F1/441 C02F1/442 C02F2001/007 C02F2201/008 C02F2209/006 B01D19/0036 C02F2101/32 C02F1/465 C02F2001/46128 C02F2301/063 C02F1/24 C02F9/00 C02F2201/461 C02F2103/365 B01D65/02 C02F1/463 B01D61/022 B01D61/025 B01D61/027 C02F1/38 C02F1/444 C02F1/52 C02F1/66 C02F3/082 C02F2209/00 C02F2209/008 Y02W10/15

European: B01D61/02B C02F1/00T C02F9/00 L01D61/02D L01D61/02F M02F1/00S M02F1/20 M02F1/38 M02F1/42 M02F1/44B M02F1/44C M02F1/44D M02F1/463 M02F1/52 M02F1/66 M02F201/00M M02F209/00 M02F209/00T M02F209/00T2 M02F209/00T4 M02F3/08B

US: 1/1 204/155 204/157.63 204/176 204/194 204/233 204/233S 204/252 204/269 204/269S 204/275.1 204/276 204/276S 204/294 204/294S 204/297.01 204/297.010P 204/554 204/571 204/660 204/660S 204/662 204/662S 204/666 204/672 204/672S 205/742

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Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: ROCKWATER RESOURCE LLC

Assignee(s): (std): KHALILI BARDIA B ; KOHLHEB ROBERT ; LIPOVSZKI GYORGY ; TRIWATECH LLC ; TRIWATECH L L C ; WIEMERS REGINALD A ; ZAHN PETER H ; ROCKWATER RESOURCE LLC

Assignee(s): ROCKWATER RESOURCE LLP ; ROCKWATER RESOURCE LC

Inventor(s): (std): KHALILI BARDIA B ; KOHLHEB ROBERT ; LIPOVSZKI GYORGY ; ROBERT KOHLHEB ; WIEMERS REGINALD A ; ZAHN PETER H

Inventor(s): GYORGY LIPOVSZKI ; PETER H ZAHN ; REGINALD A WIEMERS

Agent(s): SPRUSON AND FERGUSON; MACRAE AND CO; MERRIFIELD SARAH ELIZABETH; HAROLD A BURDICK; THE LAW FIRM OF HARRIS AND BURDICK; HAROLD BURDICK AND ROBERT HARRIS; LAW FIRM OF HARRIS AND BURDICK HAROLD BURDICK AND ROBERT HARRIS; HAROLD A; GREENBERG TRAURIG LLP; BURDICK HAROLD A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 IS IT JP KE KG KM KN KP KR KZ LA 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

23) Family number: 43198147 (US2009107111A)

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Title: IMPLO-DYNAMICS(TM): A SYSTEM, METHOD, AND APPARATUS FOR REDUCING AIRBORNE POLLUTANT EMISSIONS AND/OR RECOVERING ENERGY

Abstract: Source: US2009107111A Methods, systems, and apparatus for reducing or eliminating airborne pollutants and generating a measure of usable energy from the same are provided. The Implo-Dynamics(TM) Treatment System includes several embodiments for mixing steam and emissions and injecting said mixture into a process fluid transmission network. The vacuum induced flow of the Working Fluid provides a means of propelling a Hydro Turbine unit for energy recovery purposes. The process includes reactant injection, gas transfer, filtration, remediation of pollutants, and delivers a novel means for carbon dioxide capture and sequestration. Furthermore, the detoxified process by-product solids represent a beneficial reutilization and/or recycling resource. The methods and systems of the present invention include a comprehensive arrangement of process configurations and components as well as a means of operation.

Classifications:

International (IPC 8-9): F01N3/00 (Advanced/Invention); F01N3/00 (Core/Invention)

CPC: B01D53/145 B01D53/1475 B01D53/60 B01D53/62 B01D53/75 B01D53/78 B01D53/79 B01D2251/2065 B01D2251/304 B01D2251/306 B01D2251/402 B01D2251/404 B01D2251/602 B01D2251/604 B01D2251/606 B01D2257/302 B01D2257/404 B01D2257/502 B01D2257/504 F23J15/003 F23J15/006 F23J2217/50 F23J2219/40 Y02C10/04 Y02C10/06 Y02E20/326

European: B01D53/14F6 B01D53/14H6 B01D53/60 B01D53/62 B01D53/75 B01D53/78 B01D53/79 F23J15/00F F23J15/00P L01D251/206H L01D251/304 L01D251/306 L01D251/402 L01D251/404 L01D251/602 L01D251/604 L01D251/606 L01D257/302 L01D257/404 L01D257/502 L01D257/504 R23J217/50 R23J219/40 Y02C10/04 Y02C10/06 Y02E20/32F

US: 60/274 60/407

Priority:

EP20110715013 20110331 US20100751793 20100331 WO2011GB00507 20110331

Probable Assignee: HALLIBURTON ENERGY SERVICES INC

Assignee(s): (std): CURTIS PHILIP ANTHONY ; EZELL RYAN ; HALLIBURTON ENERGY SERV INC ; HALLIBURTON ENERGY SERVICES INC ; MORRIS RONALD G ; HARVEY TIMOTHY NEAL

Assignee(s): HALLIBURTON ENERGY SERVICES INC DUNCAN

Inventor(s): (std): MORRIS RONALD ; MORRIS RONALD G ; EZELL RYAN ; EZELL RYAN G ; HARVEY TIMOTHY N ; HARVEY TIMOTHY NEAL

Inventor(s): HARVEY TIMOTHY NEAL HUMBLE ; EZELL RYAN SPRING ; MORRIS RONALD G WOODLANDS ; RONALD G MORRIS ; RONALD MORRIS ; RYAN EZELL ; RYAN G EZELL ; TIMOTHY NEAL HARVEY

Agent(s): NORTON ROSE CANADA SENCRL SRL LLP; LUZ HELENA ADARVE GOMEZ; COTTRILL EMILY ELIZABETH HELEN; SULEIMAN I AL AMMAR LAW OFFICE; COTTRILL EMILY ELIZABETH HELEN ET AL

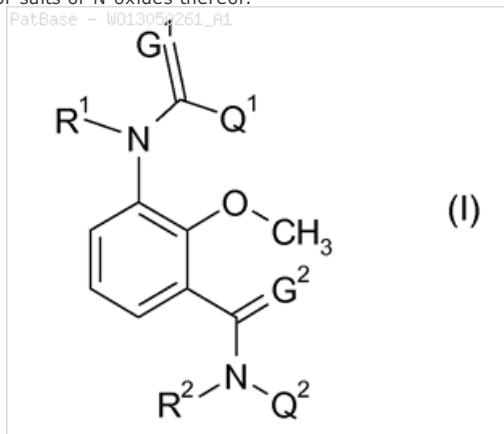
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25) Family number: 53485452 (US2014323528A)

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Title: INSECTICIDAL 2-METHOXYBENZAMIDE DERIVATIVES

Abstract: Source: US2014323528A The present invention relates to novel triazole derivatives of formula (I) having insecticidal activity, to processes and intermediates for preparing them, to insecticidal, acaricidal, nematocidal or molluscicidal compositions comprising them and to methods of using them to combat and control insect, acarine, nematode or mollusc pests wherein R¹, R², G¹, G², Q¹ and Q² are as defined in claim 1; or salts or N-oxides thereof.

Classifications:
International (IPC 8-9): A01N37/00 A01N37/18 A01N37/22 A01N43/40 A01P5/00 A01P7/02 A01P7/04 A01P9/00 A61K31/44 A61K31/4406 A61K31/4409 A61K31/455 A61P33/10 A61P33/14 C07C237/28 C07C237/42 C07C237/44 C07D213/16 C07D213/81 C07D213/82 C07D213/89 (Advanced/Invention); A01P7/02 A01P7/04 (Advanced/Non-invention); A01P5/00 A01P9/00 (Core/Non-invention); A01N A01P C07D (Subclass/Invention) **CPC:** C07D213/89 A01N43/40 C07D213/81 C07D213/82 **US:** 514/354 514/355 546/323

Family:

Publication number	Publication date	Application number	Application date
AR088096 AA	20140507	AR2012P103665	20121002
AU2012320779 AA	20130411	AU20120320779	20120921
AU2012320779 AH	20151029	AU20120320779	20120921
AU2012320779 BB	20151015	AU20120320779	20120921
AU2012320779 BH	20151029	AU20120320779	20120921
CA2850587 AA	20140331	CA20122850587	20120921
CL2014000815 A1	20140905	CL20140000815	20140402
CN104011024 A	20140827	CN201280059007	20120921
CN104011024 B	20170517	CN201280059007	20120921
CO6920301 A2	20140410	CO20140069767	20140401
EA025262 B1	20161230	EA20140000395	20120921
EA201400395 A1	20140829	EA20140000395	20120921
EP2763966 A1	20140813	EP20120766060	20120921
IN02787DN2014 A	20160831	IN2014DN02787	20140408
JP2014528957 T2	20141030	JP20140533830T	20120921
KR20140080528 A	20140630	KR20147012184	20120921
MX2014003994 A1	20140507	MX20140003994	20120921
TW201330773 A	20130801	TW20120136194	20121001
UA112556 C2	20160926	UA20140004557	20120921
US2014323528 AA	20141030	US20120348946	20120921
US9023873 BB	20150505	US20120348946	20120921
UY34360 A1	20130430	UY20120034360	20121002
WO13050261 A1	20130411	WO2012EP68655	20120921
ZA201402453 A	20150128	ZA20140002453	20140401

Priority:

EP20110018372 20111003 EP20110183726 20111003 WO2012EP68655 20120921
EP20120766060 20120921

Probable Assignee: SYNGENTA PARTICIPATIONS AG

Assignee(s): (std): GODFREY CHRISTOPHER RICHARD AYLES ; HILLESHEIM ELKE MARIA ; HUETER OTTMAR FRANZ ; MAIENFISCH PETER ; PITTERNA THOMAS ; JUNG PIERRE JOSEPH MARCEL ; SYNGENTA PARTICIPATIONS AG ; STOLLER ANDRE ; RENOLD PETER ; SYNGENTA AG

Assignee(s): SYNGENTA PARTICIPATION AG

Inventor(s): (std): GODFREY CHRISTOPHER RICAHRD AYLES ; HUETER OTTMAR FRANZ ; MAIENFISCH PETER ; HILLESHEIM ELKE MARIA ; GODFREY CHRISTOPHER RICHARD AYLES ; JUNG PIERRE JOSEPH MARCEL ; HEUTER OTTMAR FRANZ ; HILLESHEIM ELKE MARIE ; HILLSEHEIM ELKE MARIA ; PITTERNA THOMAS ; STOLLER ANDRE ; RENOLD PETER ; THOMAS PITTERNA ; MARIA HILLESHEIM ELKE ; PETER MAIENFISCH ; MARCEL JUNG PIERRE JOSEPH ; PETER RENOLD ; ANDRE STOLLER ; AYLES GODFREY CHRISTOPHER RICHARD ; FRANZ HUETER OTTMAR

Inventor(s): CHRISTOPHER RICHARD AYLES GODFREY ; ELKE MARIA HILLESHEIM ; OTTMAR FRANZ HUETER ; PIERRE JOSEPH MARCEL JUNG ; STOLLER ANDRA C

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; GOWLING LAFLEUR HENDERSON LLP; SARGENT AND KRAHN; MARGARITA CASTELLANOS ABONDANO; SYNGENTA INT AG; KOGA TETSUJI; AOKI ATSUSHI; FUKUMOTO TSUMORU; ISHIDA TAKASHI; YAMASAKI KAZUO; HATTORI HIRONOBU; NISHIJIMA TAKAKI; DESHIMARU TAKESHI; ASAI KENJI; HAKODA ATSUSHI; ICHIKAWA SATSUKI; R KODY; HERRMANN JOERG

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 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 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

26) Family number: 58292350 (US2016157485A)

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Title: 4-MEMBERED RING CARBOXAMIDES USED AS NEMATICIDES

Abstract: Source: US2016157485A Compounds of the formula (I), in which the substituents are as defined in claim 1, are suitable for use as nematocides.

Classifications:

International (IPC 8-9): A01N33/04 A01N33/12 A01N35/08 A01N37/18 A01N37/34 A01N37/40 A01N37/42 A01N43/00 A01N43/08 A01N43/10 A01N43/16 A01N43/20 A01N43/24 A01N43/36 A01N43/40 A01N43/54 A01N43/56 A01N43/58 A01N43/60 A01N43/76 A01N43/80 A01N43/828 A01N43/832 A01N43/836 A01P3/00 A01P5/00 A01P7/02 A01P7/04 A61P33/00 C07C211/35 C07C211/37 C07C211/62 C07C217/14 C07C233/14 C07C233/23 C07C233/32 C07C233/64 C07C233/66 C07C233/74 C07C233/90 C07C235/54 C07C235/62 C07C251/44 C07C255/57 C07C265/10 C07C291/10 C07C317/32 C07C323/62 C07D213/81 C07D213/82 C07D231/06 C07D231/14 C07D239/28 C07D241/14 C07D263/52 C07D305/08 C07D307/00 C07D407/12 (Advanced/Invention); A01N43/00 (Core/Invention)

CPC: C07D213/81 C07D239/28 C07B2200/07 C07C233/81 C07C235/54 C07C235/62 C07C255/57 C07C323/62 A01N37/34 A01N37/40 C07D305/08 C07C251/44 C07D213/82 A01N43/40 C07C233/32 C07C233/23 C07C233/90 C07D263/52 C07C265/10 A01N37/18 A01N43/20 C07C211/37 C07C233/14 C07C233/66 C07C291/10 C07C317/32 C07D231/14 C07C2601/04

US: 514/355 514/449 514/617 546/316 548/216 549/511 558/302 560/330 564/184 564/221 564/265 564/307

PatBase - US2016157485_AA

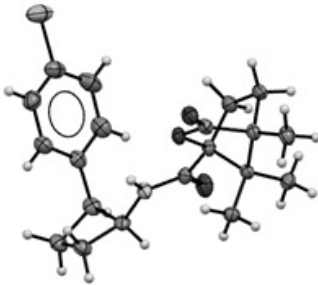


Figure 1

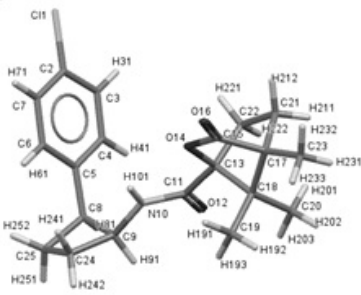


Figure 2.

Family:

Publication number	Publication date	Application number	Application date
AP201508958 A0	20151231	AP20150008958	20140701
AR096814 AA	20160203	AR2014P102497	20140704
AU2014289431 AA	20150115	AU20140289431	20140701
CA2917264 AA	20160104	CA20142917264	20140701
CL2016000017 A1	20160610	CL20160000017	20160107
CN105431414 A	20160323	CN201480039076	20140701
CO7560419 A2	20160331	CO20160001555	20160105
EA201600091 A1	20160630	EA20160000091	20140701
EP3019476 A1	20160518	EP20140734144	20140701
IN201617001294 A	20160729	IN201617001294	20160113
JP2016528201 T2	20160915	JP20160524739T	20140701
KR20160029089 A	20160314	KR20167002621	20140701
MX2015017937 A1	20160426	MX20150017937	20140701
PH2015502814 A	20160321	PH20150502814	20151217
US2016157485 AA	20160609	US20140903169	20140701
UY35643 A1	20150227	UY20140035643	20140704
WO15003951 A1	20150115	WO2014EP63895	20140701

Priority:

EP20130175632 20130708 EP20130175940 20130710 WO2014EP63895 20140701
EP20140734144 20140701

Probable Assignee: SYNGENTA PARTICIPATIONS AG

Assignee(s): (std): SYNGENTA PARTICIPATIONS AG ; SYNGENTA AG

Assignee(s): O SULLIVAN ANTHONY CORNELIUS ; MONDIERE REGIS JEAN GEORGES ; PITTERNA THOMAS ; LUKSCH TORSTEN ; SMEJKAL TOMAS ; DUMEUNIER RAPHAEL ; GODINEAU EDOUARD ; JEANGUENAT ANDRE ; LOISELEUR OLIVIER

Inventor(s): (std): CORNELIUS O SULLIVAN ANTHONY ; DUMEUNIER RAPHAEL ; EDOUARD GODINEAU ; GEORGES MONDIERE REGIS JEAN ; GODINEAU EDOUARD ; JEANGUENAT ANDRE ; LOISELEUR OLIVIER ; LUKSCH TORSTEN ; MONDIERE REGIS JEAN GEORGES ; O SULLIVAN ANTHONY CORNELIUS ; OLIVIER LOISELEUR ; OSULLIVAN ANTHONY CORNELIUS ; PITTEMA THOMAS ; PITTERNA THOMAS ; RAPHAEL DUMEUNIER ; SMEJKAL TOMAS ; SULLIVAN ANTHONY CORNELIUS O ; THOMAS PITTERNA ; TOMAS SMEJKAL ; TORSTEN LUKSCH ; ANDRE JEANGUENAT

Inventor(s): ANTHONY CORNELIUS O SULLIVAN ; REGIS JEAN GEORGES MONDIERE ; O U0027SULLIVAN ANTHONY CORNELIUS ; JEAN GEORGES MONDIERE REGIS ; JEANGUENAT ANDR

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; SARGENT AND KRAHN; J IAN RAISBECK; SYNGENTA INT AG; YAMASAKI KAZUO; NISHIJIMA TAKAKI; DESHIMARU TAKESHI; FUKUMOTO TSUMORU; HATTORI HIRONOBU; AOKI ATSUSHI; HAKODA ATSUSHI; ISHIDA TAKASHI; ICHIKAWA SATSUKI; ASAI KENJI; KOGA TETSUJI

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

27) Family number: 61898166 (RU160447U) © PatBase

Title: DEVICE FOR TREATING GROUNDWATER (Machine translation)

Abstract: Source: RU160447U The apparatus for cleaning groundwater, comprising electric-discharge unit, consisting of an aerator unit discharge treatment of water incorporated in the reaction column and the reactor tank and fast filters with granular media, otlichayuscheesya in that the electric-module has two reaction columns that are installed on the tank-reactor in series with respect to the flow of water and each of which is provided with the water-air ejector, electric discharge module is connected on the one hand to the vacuum degasser with a heated reservoir, on the other hand - via flocculation chamber to the sump and the block of filtration, which is formed of series-connected filters with granular loading and deep water purification unit in the ion exchange and sorption filter.

Classifications:

International (IPC 8-9): C02F1/20 C02F1/28 C02F1/42 C02F1/46 C02F1/52 C02F9/06 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
RU160447 U1	20160320	RU20150129587U	20150720

Priority:
RU20150129587U 20150720

Probable Assignee: JOINT STOCK CO SEVERNEFTEGAZPROM

Assignee(s): JOINT STOCK CO SEVERNEFTEGAZPROM ; SEVERNEFTEGAZPROM CO

28) Family number: 63484048 (CH710801B) © PatBase

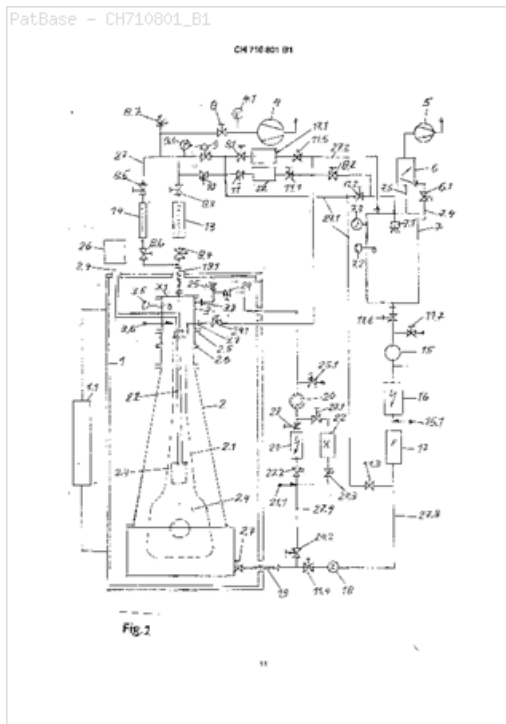
Title: VERFAHREN UND VORRICHTUNG ZUM TROCKNEN UND IMPRAEGNIEREN EINER FESTSTOFFISOLATION EINES ELEKTRISCHEN GERAETES. METHOD AND DEVICE FOR DRYING AND impregnating a SOLID ISOLATION an electrical appliance. (Machine translation)

Abstract: Source: CH710801B Die Erfindung betrifft ein Verfahren und eine Vorrichtung zum Trocknen und Impraegnieren einer Feststoffisolation (2.4) eines elektrischen Geraetes unter Vakuum, wobei das Geraet ein auf Hochspannungspotential fuehrbares und die Feststoffisolation (2.4) enthaltendes Aktivteil (2.1) und ein Geraetagehaeuse (2), aufweist, welches das Aktivteil (2.1) aufnimmt und mit Isolieroeel fuellbar ist. Damit wird ein geringer Zeitaufwand erreicht. The invention relates to a method and apparatus for drying and impregnating a solid insulation (2.4) of an electrical device under vacuum, said Geraet a viable high-voltage potential and the solid insulation (2.4) containing the active part (2.1) and a Geraetagehaeuse (2) comprising which accommodates the active part (2.1) and can be filled with insulating oil. For a low cost is achieved.

Classifications:

International (IPC 8-9): H01B19/02 H01F27/14 (Advanced/Invention)

CPC: H01B19/02

**Family:**

Publication number	Publication date	Application number	Application date
CH710801 B1	20160831	CH20150001043	20150716

Priority:

CH20150001043 20150716

Probable Assignee:

MICAVAC AG

Assignee(s): (std):

MICAVAC AG

Inventor(s): (std):

PAUL GMEINER ; ROLF ALTEMEIER

29) Family number: 64806076 (CN205912854U)

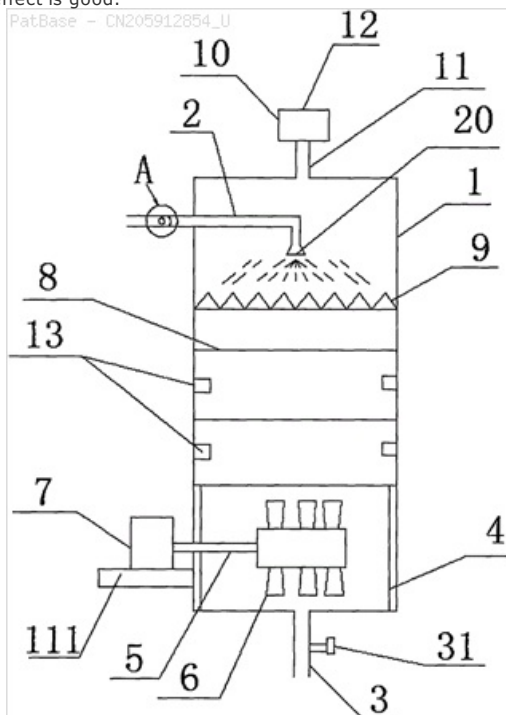
© PatBase

Title: HONEY PROCESSING DEVICE IS USED TO FOOD INDUSTRY

Abstract: Source: CN205912854U The utility model discloses a honey processing device is used to food industry, which comprises a tank body, advance the honey tube, go out the honey tube, the heating collar, the axis of rotation, the stirring leaf, including a motor, an end cap, a controller, and a cover plate, the filter screen, it installs at jar body top to advance the honey tube, it installs in jar body bottom to go out the honey tube, the stirring leaf passes through the axis of rotation and is connected with the motor, the heating collar sets up on the internal wall of jar, the setting of stirring leaf is in the internal bottom of jar, the filter screen sets up internal and be located stirring leaf top in the jar, advance the end of honey tube and install the shower nozzle, the filter screen top is provided with the demister, vacuum apparatus is still installed at jar body top, sterilamp is still installed to the internal wall of jar. Its advantage is: collect degerming, filtration, concentration, degasification in an organic whole, convenient operation, degassing effect is good.

Classifications:**International (IPC 8-9):** A23L21/25 (Advanced/Invention)

PatBase - CN205912854_U



Family:

Publication number	Publication date	Application number	Application date
CN205912854 U	20170201	CN201620630363U	20160619

Priority:

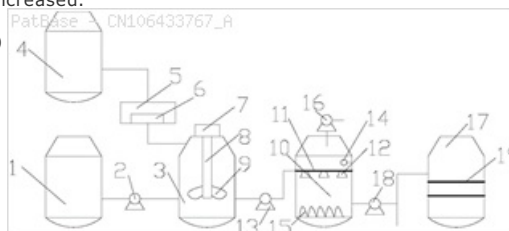
CN201620630363U 20160619

Probable Assignee: JIANGSU FOOD AND PHARMACEUTICAL SCIENCE COLLEGE**Assignee(s):** (std): JIANGSU FOOD AND PHARMACEUTICAL SCIENCE COLLEGE**Assignee(s):** JIANGSU FOOD AND DRUG VOCATIONAL AND TECHNICAL COLLEGE**Inventor(s):** (std): HU JIQIANG**30) Family number: 64990575** (CN106433767A)

© PatBase

Title: LUBRICATING OIL REFINING APPARATUS

Abstract: Source: CN106433767A The present invention relates to a lubricating oil refining apparatus, wherein the quality of the finally-obtained lubricating oil is high. According to the lubricating oil refining apparatus, a lubricating oil tank is communicated to a mixing tank through a raw material pump, a white clay tank is communicated to the mixing tank through a material feeder, a solid flow meter is arranged inside the material feeder, the top portion of the mixing tank is provided with a driving device, the driving device drives and is connected to a stirring shaft, the stirring shaft positioned inside the mixing tank is provided with a plurality of stirring blades, a degassing tank is subjected to sealing treatment, an oil spraying frame is arranged inside the degassing tank and is provided with a plurality of nozzles, the plurality of the nozzles are communicated to the degassing tank through a liquid inlet pump, a pressure sensor and a heater are arranged inside the degassing tank, the pressure sensor, the solid flow meter and the heater are electrically connected to the input terminal of an external controller, the output terminal of the controller is electrically connected to the material feeder and a vacuum pump, the vacuum pump is communicated to the degassing tank through a pipeline, a filtration tank and the degassing tank are communicated through a filtration pump, at least two filtration layers are arranged inside the filtration tank, and from top to bottom, the filtration precisions of the filtration layers are gradually increased.

Classifications:**International (IPC 8-9):** C10G53/08 C10M177/00 (Advanced/Invention)**Family:**

Publication number	Publication date	Application number	Application date
CN106433767 A	20170222	CN201510477296	20150805

Priority:

CN201510477296 20150805

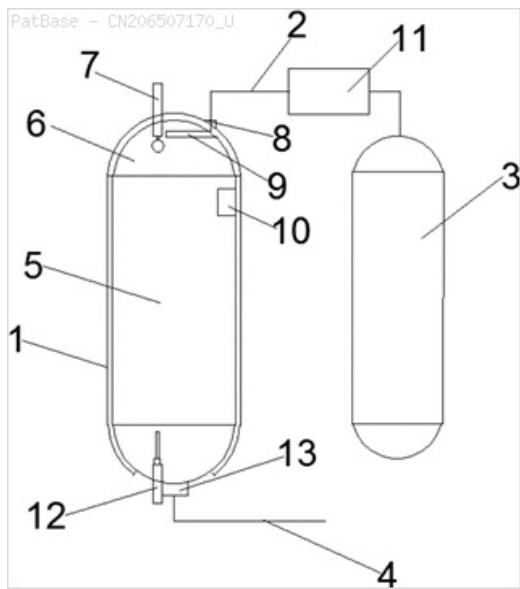
Probable Assignee: TOILX TIANJIN CO LTD**Assignee(s):** (std): TOILX TIANJIN CO LTD**Assignee(s):** THEO STAR TIANJIN CO ; THEO STAR TIANJIN CO LTD ; TOILX TIANJIN CO**Inventor(s):** (std): FU JUN ; LI PENG ; LI XIANGYU ; XIE FANG**31) Family number: 67045322** (CN206507170U)

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Title: A suitable walnut emulsion production of vacuum degassing device (Machine translation)

Abstract: Source: CN206507170U The present invention relates to a degassing device, and more particularly relates to a method applies to walnuts emulsion production of vacuum degassing apparatus comprising a vacuum degassing tank, feeding tube, hot water tank and a discharge pipe, said vacuum degassing tank comprises a tank body, head, the vacuum suction pump, control valve, liquid level detection means, said spray means and the feeding tube from top to bottom throughout the regulating valve and head, and its lower end is fixedly connected with the spray device, the spray device is connected fixedly to inner wall of the right end of the head, the liquid level detection device and the tank wall is fixedly connected, the utility model by setting in a vacuum degassing liquid level detection device, when the liquid level rises to the upper limit, the feed tube will stop feeding, saving labor operation time, while feeding tube is provided with a filter means, so that the degassing and filtration to become one, no additional need to provide the pump power, reduce power consumption, both to reduce costs and save energy, but also can improve efficiency.

Classifications:**International (IPC 8-9):** A23C7/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN206507170 U	20170922	CN201621489221U	20161230

Priority:

CN201621489221U 20161230

Probable Assignee:

ANHUI TO KEEP FOOD LTD

Assignee(s):

ANHUI TO KEEP FOOD LTD