

1) Family number: 17991755 (DE19608474A1)

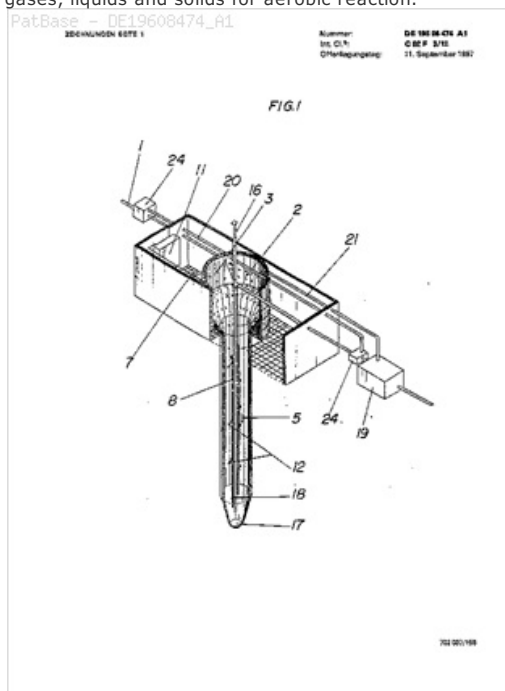
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Title: TREATMENT VESSEL FOR LIQUID EFFLUENTS

Abstract: Source: DE19608474A1 (Claim 1) 1. Vorrichtung zum Behandeln fluessiger Abwaesser, mit einem Satz vertikal angeordneter und miteinander verbundener Behaelter, welche Luft, Gase, Fluessigkeiten und/oder Feststoffe aufnehmen, wobei in den Behaeltern physikalische, chemische und biologische Reaktionen zum Trennen der organischen Bestandteile voll der fluessigen Phase vorgesehen sind, dadurch gekennzeichnet, dass sich das zu behandelnde Abwasser in einer Leitung (1) befindet und die darin befindlichen, geloesten organischen Bestandteile in dem fluessigen Medium in einer Homogenisierungskammer (2) mischbar sind, wobei die Homogenisierungskammer (2) Injektionsduesen (3) zum Einleiten von Druckluft und ionisierter Luft zwecks Erzeugung einer Zirkulationsbewegung nahe an den Duesen sowie Messfuehler (4) zum Bestimmen des Niveaus, der Truebung und des pH-Wertes aufweist, und unterhalb der Homogenisierungskammer (2) eine Reaktionskammer (5) fuer das in der Homogenisierungskammer (2) vorbehandelte Gemisch in Form eines tiefen Schachtes vorgesehen ist, welcher einen mit einem Kompressor (6) verbundenen Verteiler (7) fuer das Einleiten von Luft zum Zusammenkleben der organischen Bestandteile, welche in der Suspension Flocken bilden, und zum Wachsen von Bakterien und anderen, in geeigneter Weise klassifizierten Mikroorganismen aufweist. The equipment comprises a vertical assembly of interconnected tanks, with means for introduction of air, gases, liquids and solids for aerobic reaction.

Classifications:

International (ipc 8-9): B01F5/04 C02F3/12 C02F3/20 C02F3/26 (Advanced/Invention);
B01F5/04 C02F3/12 C02F3/20 C02F3/26 (Core/Invention)
International (ipc 1-7): B01F5/04 C02F3/12 C02F3/20 C02F3/26
CPC: B01F5/04 C02F3/12 C02F3/20 C02F3/26 Y02W10/15



Family:

Publication number	Publication date	Application number	Application date
BRPI9303571 A	19950919	BR1993PI03571	19931001
DE19608474 A1	19970911	DE19961008474	19960305

Priority:

BR1993PI03571 19931001 DE19961008474 19960305

Probable Assignee: HENISA HIDROELETROMECANICA EMP

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Inventor(s): (std): LAUCEVICIUS CARLOS

Inventor(s): LAUCEVICIUS CARLOS SAO PAULO BR ; CARLOS LAUCEVICIUS

2) Family number: 14628422 (NL1003155C)

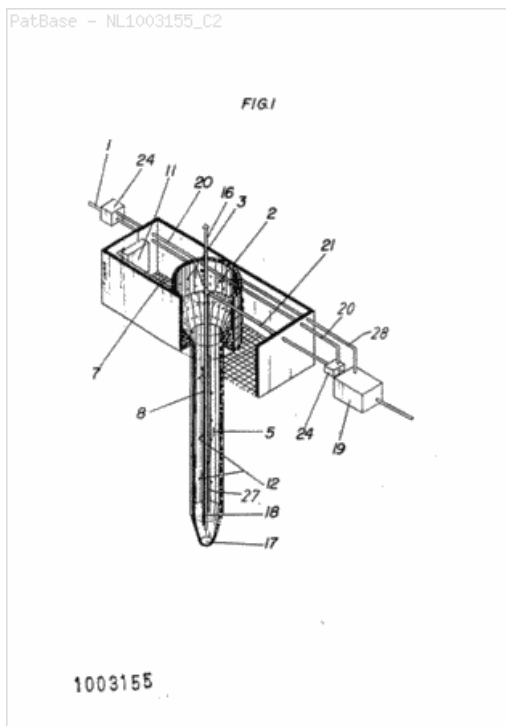
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Title: PURIFICATION OF DOMESTIC OR INDUSTRIAL WASTE WATER

Abstract: Purification of waste water in an apparatus comprising a homogenising vessel (2) with an inlet for waste water aerators (3) for compressed air or another gas arranged to create a circular motion in the vessel. This is placed above, and connected to, a vertical reaction vessel (5) for performing physical, chemical and/or biochemical purification, which is provided with separators for gases and one or more exits for cleaned water, solids and gases.

Classifications:

International (ipc 8-9): C02F1/00 C02F3/22 (Advanced/Invention);
C02F1/00 C02F3/22 (Core/Invention)
International (ipc 1-7): B01D21/26 B01J10/0 B01J10/00 C02F1/74
C02F3/14



Family:

Publication number	Publication date	Application number	Application date
NL1003155 C2	19971118	NL19961003155	19960517

Priority:

NL19961003155 19960517

Probable Assignee: HENISA HIDROELETROMECANICA EMP

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Inventor(s): (std): LAUCEVICIUS CARLOS

Inventor(s): CARLOS LAUCEVICIUS

3) Family number: 15780 (BRPI9301976A)

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Title: DISPOSICAO CONSTRUTIVA E PRINCIPIO DE FUNCIONAMENTO EM VASO PARA TRATAMENTO DE EFLUENTES INDUSTRIAIS HAND CONSTRUCTION AND OPERATING PRINCIPLE IN VASE FOR INDUSTRIAL WASTEWATER TREATMENT (Machine translation)

Abstract: Source: BRPI9301976A [Source: Claim 1] 1 - "DISPOSICAO CONSTRUTIVA E FUNCIONAMENTO DE VASO PARA TRATAMENTO DE EFLUENTES LIQUIDOS", constituido por conjunto de tanques interligados, dispostos 5, verticalmente, que recebem injecao de ar, gases, liquidos e solidos, provendo reacoes fisicas, quimicas e biologicas, separando materia organica agregada a materia liquida, caracterizado pela introducao do esgoto no duto (1) misturado a materia organica diluida em meio l0. liquido, numa etapa aleatoria e noutra etapa na camara du homogeneizacao (2), onde, ocorre movimento de circulacao por injecao em bicos (3) de ar pressurizado e ionizado, havendo proximo a tais bicos, sensores (4) de nivel, turbidez e PH, sendo a mistura conduzida a camara L5# de reacao (5) em forma de poco profundo, contigua a camara (2), havendo tubulacao (7) para injecao de ar vindo do compressor (6), aglutinando a materia organica que flocula-se em suspensao, proliferando bacterias e outros micro organismos, classificados em cepas 20, apropriadas. [Source: Claim 1] 1-"CONSTRUCTIVE DISPOSITION and OPERATION of VESSEL for LIQUID EFFLUENT TREATMENT", consisting of set of interconnected tanks, arranged 5, vertically, receiving air injection, gas, liquid and solid, providing physical, chemical and biological reactions, separating organic matter added to liquid matter, characterized by the introduction of the sewage in the duct (1) mixed the materia organica diluted amid 0. in a liquid | step another step in a random camera du homogeneizacao (2) where circulation movement occurs by shot in nozzles (3) pressurized air and ionized, going on next to such burners, sensors (4) of nivel, turbidity and PH, being the mixture the L5 # reaction chamber (5) in the form of deep, poco contigua the camara (2), with tubulacao (7) for air injection coming from the compressor (6), clumping materia organica that flocculates in suspension, proliferating bacteria and other micro organisms, classified into 20 strains, suitable.

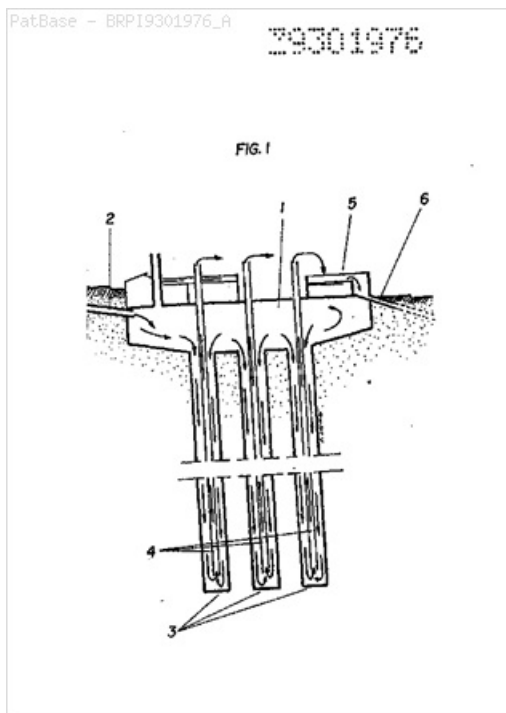
Classifications:

International (IPC 8-9): C02F3/20 (Advanced/Invention);

C02F3/20 (Core/Invention)

International (IPC 1-7): C02F3/20

CPC: Y02W10/15

**Family:**

Publication number	Publication date	Application number	Application date
BRPI9301976 A	19960820	BR1993PI01976	19930609

Priority:

BR1993PI01976 19930609

Probable Assignee: HENISA HIDROELETROMECANICA EMP**Assignee(s):** (std): HENISA HIDROELETROMECANICA EMP**Assignee(s):** HENISA HIDROELETROMECANICA EMPRESA NACIONAL DE ; HENISA HIDROELETROMECANICA EMPRESA NACIONAL DE INSTALACOES LTDA**Inventor(s):** (std): LAUCEVICIUS CARLOS**Inventor(s):** CARLOS LAUCEVICIUS**4) Family number: 31704885 (BRPI9105395A)**

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Title: EQUIPAMENTO PARA RECUPERACAO DE MINERAIS E SEPARACAO DE MATERIA ORGANICA AGREGADA EQUIPMENT FOR MINERAL AND RECOVER unbundling AGGREGATE ORGANIC (Machine translation)**Classifications:****International (IPC 8-9):** C22B3/18 (Advanced/Invention);
C22B3/00 (Core/Invention)**International (IPC 1-7):** C22B3/18**CPC:** Y02P10/234**Family:**

Publication number	Publication date	Application number	Application date
BRPI9105395 A	19930608	BR1991PI05395	19911205

Priority:

BR1991PI05395 19911205

Probable Assignee: CARLOS HENRIQUE AMARAL MONIZ**Assignee(s):** (std): CARLOS HENRIQUE AMARAL MONIZ ; CARLOS LAUCEVICIUS ; HEALTHY KOBASHI**Inventor(s):** (std): MONIZ CARLOS HENRIQUE AMARAL ; LAUCEVICIUS CARLOS ; KOBASHI HEALTHY**Inventor(s):** HEALTHY KOBASHI ; CARLOS LAUCEVICIUS ; CARLOS HENRIQUE AMARAL MONIZ**5) Family number: 32608197 (BRPI0402364A)**

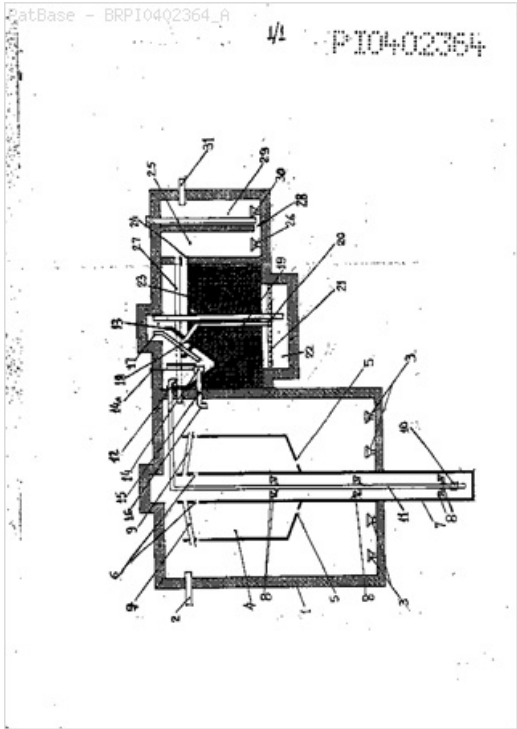
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Title: ESTACAO COMPACTA PARA TRATAMENTO DE ESGOTO COMPACT STATION FOR SEWAGE TREATMENT (Machine translation)

Abstract: Source: BRPI0402364A 2 ? e ****# ? e ss### Resumo "ESTACAO COMPACTA PARA TRATAMENTO DE ESGOTO", compreendida por uma estrutura unica otimizada para atender a demanda gerada por pequenas populacoes da ordem de 10 ate 10.000 habitantes, sendo viavel sua utilizacao para populacoes maiores. Essa estrutura unica constituida por um compartimento de homogeneizacao (1, 2) com aeradores (3) dispostos no fundo do compartimento (1); sendo este ultimo provido internamente de um primeiro decantador clarificador (4) com passagem inferior (5) de entrada do afluente fluidizado; sendo que internamente a esse primeiro decantador (4) e previsto um floculador (6, 7) em comunicacao fluida com o decantador (4). O floculador (6, 7) e provido internamente de aeradores (8), tendo na parte superior um tubo de retorno (9) em comunicacao com o compartimento de homogeneizacao (1), enquanto que na sua parte inferior o floculador (6, 7) e provido de uma bomba de densidade (10) interligada a um tubo coaxial de

recalque (11), cuja saida (12) e posicionada e um segundo decantador clarificador (13) provido de uma valvula de gaveta (14, 14a) ligada a um tubo (15, 16) para retorno do lodo ao compartimento de homogeneizacao (1); sendo prevista uma tubulacao de drenagem (17). No lado posterior deste decantador clarificador (13) existe uma saida dispersao (18, 19, 20, 21) interligada a um reservatorio de lodo (22). O segundo decantador (13) e montado em meio a um filtro biologico (23) cuja abertura de passagem (24) interliga-se a clarificadores floculadores (25, 29) com aeradores internos (2/2 (26, 30) com duto (27) de retorno e saida (31) da estacao. # # ? ss «,,: # ss # . 2 ? and . ***## ? ss and ### summary "ESTACAO COMPACT FOR SEWAGE TREATMENT", comprised of a single optimized structure to meet the demand generated by small populations of 10 up to 10,000 order, viable and its utilization for larger populations. This single structure constituted by a homogenization compartment (1, 2) with aerators (3) arranged in the housing bottom (1); the latter being provided internally of a first clarifier decanter (4) with underpass (5) entry of fluid affluent; whereas internally to that first decanter (4) and provision for flocculator (6, 7) in fluid communication with the decanter (4). The flocculator (6, 7) and provided internally aerators (8) having at the top a return pipe (9) in communication with the homogenization compartment (1), while in its lower part the flocculator (6, 7) and provided with a density of pump (10) connected to a coaxial pipe discharge (11) whose outlet (12) and positioned and a second settler clarifier (13) provided with a valve tray (14, 14a) connected to a tube (15, 16) for returning sludge to the homogenization compartment (1); It is foreseen a drainage pipe (17). On the rear side of this clarifier decanter (13) there is a dispersion outlet (18, 19, 20, 21) connected to a sludge reservoir (22). The second settling tank (13) and mounted amid a biological filter (23) whose opening (24) connects to flocculators clarifiers (25, 29) with internal aerators (2/2 (26, 30) with duct (27) return and output (31) of the season. # ? ss ', ... ss ## # .

Classifications:
International (IPC 8-9): C02F9/02 C02F9/04
C02F9/14 (Advanced/Invention);
C02F9/00 C02F9/02 C02F9/14 (Core/Invention)
International (IPC 1-7): C02F9/02 C02F9/04 C02F9/14



Family:

Publication number	Publication date	Application number	Application date
BRPI0402364 A	20060131	BR2004PI02364	20040621

Priority:
BR2004PI02364 20040621

Probable Assignee: PLASCOVAN ARTEFATOS DE PLASTIC

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Assignee(s): PLASCOVAN ARTEFATOS DE PLASTICOS LTDA

Inventor(s): (std): LAUCEVICIUS CARLOS

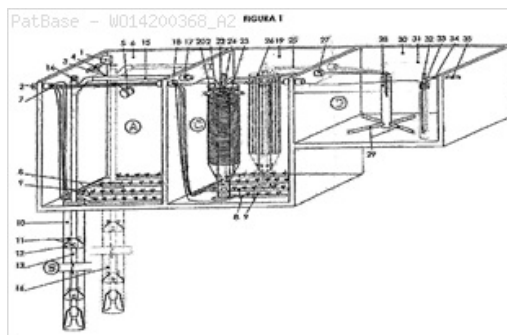
Inventor(s): CARLOS LAUCEVICIUS

6) Family number: 58073629 (WO14200368A3) © PatBase

Title: DEVICE AND TECHNIQUE FOR THE BIOLOGICAL DIGESTION OF WASTE EFFLUENTS BY FLUIDISED BEDS AND LIMICOLOUS FILTRATION

Abstract: The invention relates to a device and a technique for the digestion of effluents by fluidised beds and limicolous filtration, said device consisting of four independent, intercommunicating tanks, without sludge recirculation, for treating liquid effluents in a vertical biological manner, with biological stratification by means of air injection pressure control, and filtration devices comprising elements which favour the adhesion of lime. The waste effluents follow a continuous and ordered flow throughout the process, resulting in water which satisfies the regulations for the discharge of effluents to receiving bodies of water and sewers.

Classifications:
International (IPC 8-9): C02F3/00 C02F3/12
C02F3/30 (Advanced/Invention)
CPC: C02F3/085



Family:

Publication number	Publication date	Application number	Application date
W014200368 A2	20141218	WO2014PA00001	2014
W014200368 A3	20150702	WO2014PA00001	2014

Priority:

PA20130090013 20130614

Probable Assignee: INISA AMBIENTAL S A

Assignee(s): (std): INISA AMBIENTAL S A

Assignee(s): INISA AMBIENTAL SA

Inventor(s): (std): LAUCEVICIUS CARLA ; LAUCEVICIUS CARLOS

Agent(s): BENEDETTI V RAMON R

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 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

7) Family number: 11805011 (ES2139483A)

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Title: CONSTRUCTION AND FUNCTIONING OF A VESSEL FOR THE TREATMENT OF LIQUID EFFLUENTS

Abstract: Construction and functioning of a vessel for the treatment of liquid effluents which comprises a set of interconnected tanks arranged vertically equipped with control devices and ducts for the introduction of air, gases, liquids and solids for aerobic reactions resulting from the agglutination, oxidation and separation of pollutants which are combined with the liquid material in drains so that the treated water can be released to rivers, lakes and the sea.

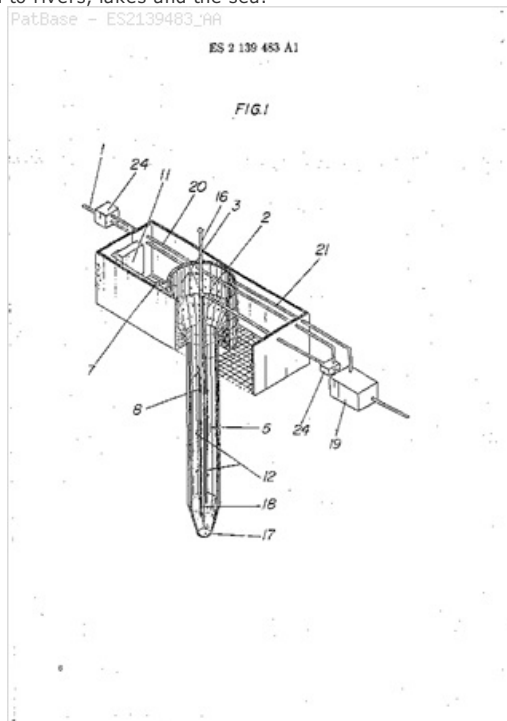
Classifications:

International (IPC 8-9): C02F3/20 C02F3/22 (Advanced/Invention);

C02F3/20 C02F3/22 (Core/Invention)

International (IPC 1-7): A47J33/00 C02F3/20 C02F3/22

CPC: Y02W10/15



Family:

Publication number	Publication date	Application number	Application date
ES2139483 AA	20000201	ES19960000607	19960313
ES2139483 BA	20010216	ES19960000607	19960313

Priority:

ES19960000607 19960313

Probable Assignee: HENISA HIDROELETROMECANICA EMP

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Inventor(s): (std): LAUCEVICIUS CARLOS

8) Family number: 14309743 (ITRM960131A)

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Title: POZZETTO PER IL TRATTAMENTO DEI LIQUIDI EFFLUENTI, SUA DISPOSIZIONE STRUTTURALE E SUO FUNZIONAMENTO TRAP FOR the TRATTAMENTO OF the LIQUIDS EFFLUENTI, ITS DISPOSIZIONE OF STRUCTURAL AND ITS OPERATION (Machine translation)

Abstract: Source: ITRM960131A Unit` modulare di gestione di carie magnetiche e carte Chip, comprendente mezzi di gestione di carte CTP con un unico motoriduttore che sposta il cartello (20) portatestina e anche la carta CTP mediante un congegno di traslazione rettilinea. Una carta Chip viene gestita da una contattiera che si abbassa nella carta (61). (Fig. 3)

Machine translation: Unit` to modulate of management of magnetic decays and Chip papers, comprising average of management of papers CTP with an only motoriduttore that moves trust (20) portatestina and also paper CTP by means of a device of rectilinear translation. A Chip paper comes managed from one contattiera that is lowered in paper (61). (Fig. 3)

Classifications:

International (IPC 8-9): C02F (Subclass/Invention)

International (IPC 1-7): C02F

Family:

Publication number	Publication date	Application number	Application date
IT1283943 B1	19980507	IT1996RM00131	19960228
ITRM960131 A0	19960228	IT1996RM00131	19960228
ITRM960131 A1	19970828	IT1996RM00131	19960228

Priority:

IT1996RM00131 19960228

Probable Assignee: HENISA HIDROELETROMECHANICA EMP

Assignee(s): (std): HENISA HIDROELETROMECHANICA EMP ; HENISA HIDROELETTROMECHANICA E

Assignee(s): HENISA HIDROELETTROMECHANICA EMPRES A NACIONAL DE ; HENISA HIDROELETTROMECHANICA EMPRES A NACIONAL DE INSTALACOES LTDA ; HENISA HIDROELETROMECHANICA EMPRESA NACIONAL DE INS ; HENISA HIDROELETROMECHANICA EMPRESA NACIONAL DE INSTALACOES

Inventor(s): (std): LAUCEVICIUS CARLOS

9) Family number: 31597663 (PL338162A)

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Title: APPARATUS FOR OBTAINING ACTIVATED WATER

Classifications:

International (IPC 8-9): C02F1/48 (Advanced/Invention);

C02F1/48 (Core/Invention)

International (IPC 1-7): C02F1/48

Family:

Publication number	Publication date	Application number	Application date
PL338162 A1	20010813	PL20000338162	20000131

Priority:

PL20000338162 20000131

Probable Assignee: LASTOWSKI JAN

Assignee(s): (std): LASTOWSKI JAN

Inventor(s): (std): KROVE VYTATUTAS ; LAUCEVICIUS TELESFORAS ; SIBILSKIS PETRAS