

16-112017

2do examen de fondo

Title: SWIMMING POOL STRUCTURE

Abstract: Source: US2815512A (Claim 1) 1. A swimming pool structure comprising a pool body of flexible sheet material having a bottom wall and upstanding side walls of closed configuration, wire fencing on the outside of and engaging the side walls, and a frame work on the outside of and backing up said fencing, said frame work including a series of vertical posts, rails interconnecting adjacent posts, and a pivotal connection between the end of each rail and the adjacent post, said wire fencing comprising a wire mesh fabric substantially the same size and configuration as the upstanding side walls of the pool body and being in generally flat engagement therewith.

Classifications:

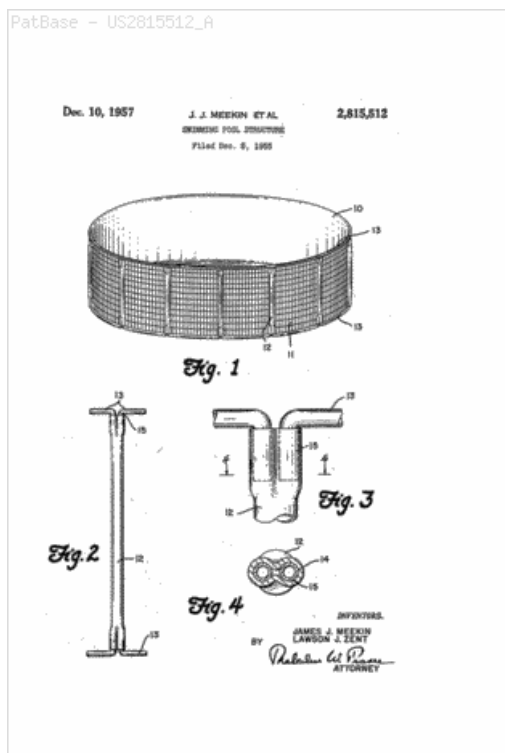
International (IPC 8-9): E04H4/00 (Advanced/Invention);
E04H4/00 (Core/Invention)

International (IPC 1-7): A62C33/00 E04H3/18

CPC: E04H4/0018

European: E04H4/00C

US: 472/126 52/245



Family:

Publication number	Publication date	Application number	Application date
US2815512 A	19571210	US19550551945	19551208

Priority:

US19550551945 19551208

Probable Assignee: HETTRICK MFG CO

Assignee(s): (std): HETTRICK MFG CO ; HETTRICK MFG COMPANY

Assignee(s): THE HETTRICK MANUFACTURING COMPANY

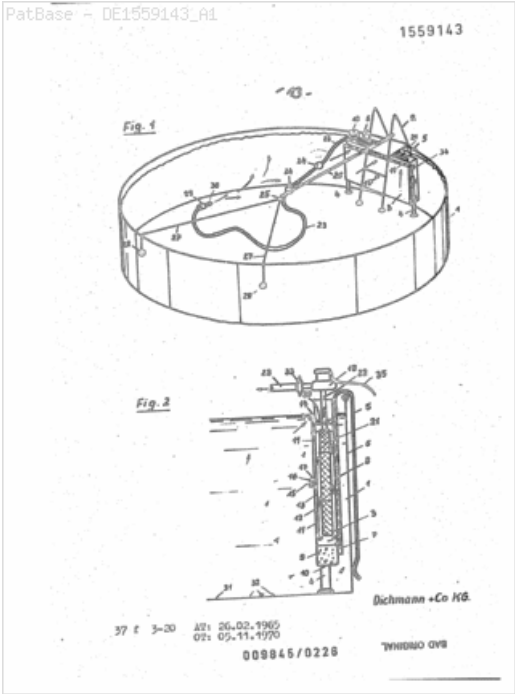
Inventor(s): (std): MEEKIN JAMES J ; ZENT LAWSON J

Title: VORRICHTUNG ZUR REINIGUNG UND UMWÄELZUNG VON WASSER UND ANDEREN FLÜESSIGKEITEN DEVICE FOR CLEANING AND circulation of water and other liquids (Machine translation)

Abstract: Source: DE1559143A1 (Claim 1) o h u - t a n s p r u e c h e G D.Vorrichtung zur Reinigung und Umwälzung von Wasser und anderen Flüssigkeiten in Behälterng Schwimmbecken und dergl., d a d u r c h g e k e n n z e i c h n e - t g dass alle Teile der Gesamtanlage zu einer Einheit zusammengefasst.

Machine translation: (Claim 1) o u t h z t o u s p r c h e G D.Vorrichtung for cleaning and circulation of water and other liquids in Behälterng swimming pools and the like, dadurchgekennzeichn e-tan that all parts of the entire system to a unit together.

Classifications:
International (IPC 8-9): E04H4/12 E04H4/16 (Advanced/Invention); E04H4/00 (Core/Invention)
International (IPC 1-7): E04H3/20
CPC: E04H4/1209 E04H4/1681
European: E04H4/12A E04H4/16D



Family:

Publication number	Publication date	Application number	Application date
DE1559143 A1	19701105	DE19651559143	19650226

Priority:
DE1965D046626 19650226

Probable Assignee: DICHMANN AND CO KG
Assignee(s): (std): DICHMANN AND CO KG
Inventor(s): (std): DICHMANN WOLFGANG

Title: Floating pool assembly

Abstract: Source: US4087870A A pool assembly designed to be supported in a natural body of water such as a lake, river, canal, etc., and including a flexible, waterproof liner structure secured about its peripheral edge to a floatation device in the form of a buoyant rim portion disposed in supporting relation to the liner and maintained in floating relation to the surface of the body of water. A floating deck comprising, in part, a hollow portion for storage of the liner when not in use and a filtering assembly, is removably attached to the rim portion by a correspondingly configured channel structure formed in the housing of the deck, wherein the deck itself is buoyant and is disposed in interconnecting relation between the liner and the shore or equivalent permanent installation leading to the liner.

Classifications:

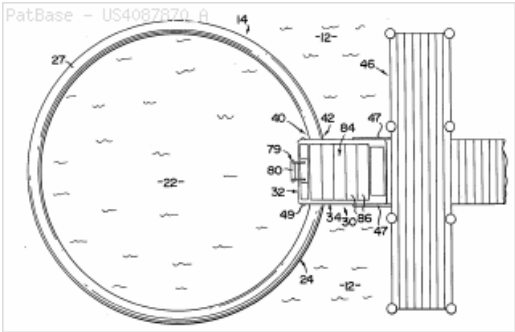
International (IPC 8-9): E04H4/00 E04H4/12
E04H4/14 (Advanced/Invention);
E04H4/00 (Core/Invention)

International (IPC 1-7): A47K3/00 E04H3/16 E04H3/18

CPC: E04H4/0012 E04H4/1209 E04H4/144

European: E04H4/00B E04H4/12A E04H4/14C

US: 4/171 4/487



Family:

Publication number	Publication date	Application number	Application date
US4087870 A	19780509	US19760710149	19760730

Priority:

US19760710149 19760730

Probable Assignee:

PALMER JR JOHN M

Assignee(s): (std):

PALMER JR JOHN M

Inventor(s): (std):

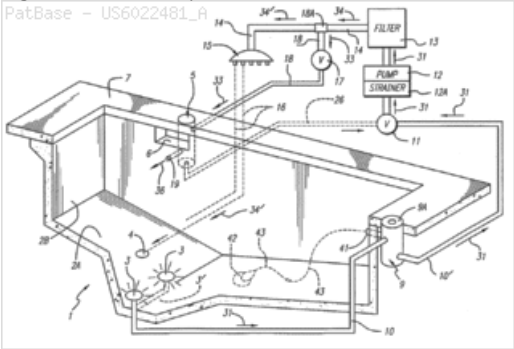
PALMER JR JOHN M

Title: Single pump pool cleaning system and method of simultaneously operating a full-function skimmer and multiple cleaning heads

Abstract: Source: US6022481A A swimming pool cleaning system includes a pump, a first tube coupling a suction port of the pump in fluid communication with a main drain or mobile cleaning device which draws water and settled debris from the bottom of the pool, and a skimming device including an entrainment nozzle. The entrainment nozzle is coupled by a second tube to a coupling device which diverts a small portion of pool return water pumped from an outlet port of the pump. Most of the pool return water is pumped into a rotary distribution valve, various outlets of which are connected to various pool cleaning heads embedded in an inner surface of the pool. A vacuum canister having a removable cover to allow access to a removable debris trap disposed in the vacuum canister between an inlet and an outlet thereof is coupled between a suction inlet of the pump and the main drain or mobile cleaning device. A single low-horsepower pump produces simultaneous effective skimming, operation of embedded cleaning heads, and trapping of debris in a trap in a vacuum canister.

Classifications:

International (IPC 8-9): E04H4/12 (Advanced/Invention)
International (IPC 1-7): E04H4/12 E04H4/16
CPC: E04H4/1272 E04H4/1636 E04H4/1645
European: E04H4/12A6 E04H4/16B2A P04H4/16B2
US: 15/1.7 210/167.12 210/196 210/416.2 210/776 210/805 4/490 4/507 4/509



Family:

Publication number	Publication date	Application number	Application date
US6022481 A	20000208	US19960712307	19960911

Priority:

US19960712307 19960911

Probable Assignee:

SHASTA IND

Assignee(s): (std):

SHASTA IND

Assignee(s):

SHASTA INDUSTRIES

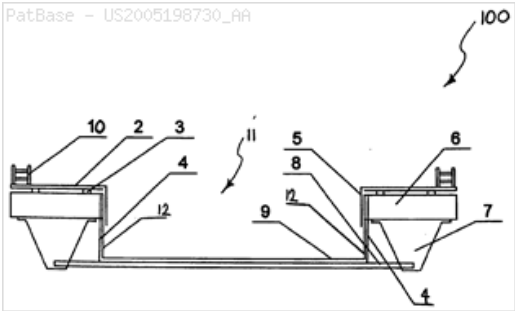
Inventor(s): (std):

BLAKE ANDY F

Title: FLOATING SWIMMING POOL APPARATUS

Abstract: Source: US2005198730A A floating swimming pool apparatus that is more stable, stronger, and lighter than existing floating swimming pools is provided. In one aspect, the invention is a floating pool comprising a support structure comprising a deck portion forming an opening, a plurality of floater assemblies, a tray extending downward from the deck portion, and one or more transverse rods having a first and second ends, the first and second ends of the transverse rods being supported by opposing sides of the tray so that the transverse rods pass below the opening; and a water retaining enclosure comprising a floor and side walls, the water retaining portion positioned in the opening so that the side walls of the water retaining enclosure are at or near the deck portion and the floor rests atop and is supported by the transverse rods. In another aspect, the invention is a floating swimming pool wherein its main structural components are constructed of a water proof glass fiber reinforced plastic.

Classifications:
International (IPC 8-9): E04H4/00 E04H4/04 (Advanced/Invention); E04H4/00 (Core/Invention)
International (IPC 1-7): E04H4/00 E04H4/04
CPC: E04H4/0012
European: E04H4/00B
US: 4/496 4/496P



Family:

Publication number	Publication date	Application number	Application date
CN1560403 A	20050105	CN200410006342	20040226
US2005198730 AA	20050915	US20050069861	20050228

Priority:

CN200410006342 20040226

Probable Assignee:	LI GUOQUAN
Assignee(s): (std):	LI GUOQUAN
Inventor(s): (std):	LI GUOQUAN
Inventor(s):	GUOQUAN LI
Agent(s):	COZEN OCONNOR PC

Title: PROCESS TO OBTAIN WATER BODIES LARGER THAN 15,000 M3 FOR RECREATIONAL USE WITH COLOR, TRANSPARENCY AND CLEANNES CHARACTERISTICS SIMILAR TO SWIMMING POOLS OR TROPICAL SEAS AT LOW COST

Abstract: Source: US2008116142A The invention discloses a process to implement and maintain water bodies larger than 15,000 m3 for recreational use, such as lakes or artificial lagoons, with excellent color, transparency and cleanness properties at low cost, which comprises the following steps: a.-providing a structure able to contain a large water body larger than 15,000 m3; b.-feeding the structure of step (a) with inlet water having iron and manganese levels lower than 1.5 ppm and turbidity lower than 5 NTU; c.-measuring water pH, ideally it should be within a range lower than 7.8; d.-adding an oxidizing agent to the water contained in the structure of step (a), with which a 600 mV minimal ORP is controlled in water for a minimal period of 4 hours and in maximal cycles of 48 hours; e.-adding a flocculating agent in concentrations within 0.02 and 1 ppm with maximal frequencies of 6 days and cleaning the bottom of the structure of step (a) with a suction device to remove precipitated impurities from the bottom of said structure, together with the additional flocculants and; f.-generating a displacement of surface water containing impurities and surface oils by means of the injection of inlet water according to step (b), which generates said displacement in such a way to remove said surface water by means of a system for impurities and surface oils removal arranged in the structure of step (a), which together with step (e) replaces traditional filtering. The present invention also discloses a structure to contain large water bodies comprising a system for the removal of impurities and surface oils by means of skimmers and the suction device to clean said structure.

Classifications:

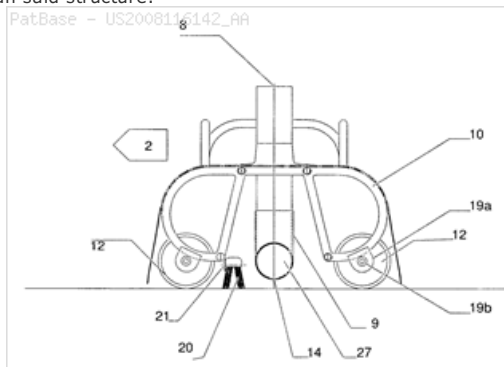
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International (IPC 1-7): C02F1/00 C02F1/40 C02F1/50 C02F1/52 C02F1/56 C02F1/72 C02F103/42 C02F9/04 E02B15/00 E02B15/04 E04H4/00 E04H4/02 E04H4/16

CPC: C02F1/00 C02F1/766 C02F2103/42 E04H4/00 C02F1/40 C02F1/46 C02F1/505 C02F1/56 C02F1/72 C02F1/722 C02F1/76 C02F1/78 C02F7/00 C02F2103/007 C02F2209/04 C02F2209/06 C02F2209/11 E02B1/003 E02B3/00 E02F3/885 E02F3/886 E02F3/9243 Y02W10/15 Y02W10/37

European: C02F1/56 C02F1/72 E02B1/00B E02B3/00 E02F3/88E4 E02F3/88F4 E02F3/92P M02F1/40 M02F1/46 M02F1/50B M02F1/72C M02F1/76 M02F1/76G M02F1/78 M02F103/00H M02F103/42 M02F209/04 M02F209/06 M02F209/11 M02F7/00

US: 15/1.7 15/1.700S 15/340.1 15/340.100P 210/167.1 210/167.100S 210/167.11 210/167.110P 210/167.110S 210/167.15 210/167.16 210/170.01 210/170.010S 210/702 210/709 210/712 210/721 210/722 210/722S 210/723 210/723S 210/724 210/742 210/743 210/746 210/747 210/747.5 210/747.8 210/748.2 210/754 210/759 210/760 210/764 210/776 4/488 4/506 4/507



Family:

Publication number	Publication date	Application number	Application date
AP200704242 A0	20071231	AP20070004242	20071119
AP2346 A	20120102	AP20070004242	20071119
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AR079637 AB	20120208	AR2010P104700	20101216
AR079638 AB	20120208	AR2010P104701	20101216
AU2007203016 AA	20080605	AU20070203016	20070628
AU2007203016 BB	20090423	AU20070203016	20070628
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CA2610542 AA	20080521	CA20072610542	20071114
CA2610542 C	20110628	CA20072610542	20071114
CA2737013 AA	20080521	CA20072737013	20071114
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Priority:

CA20072610542	20071114	CA20072737013	20071114	JP20070299975	20071120
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Probable Assignee: CRYSTAL LAGOONS

Assignee(s): (std): CRYSTAL LAGOONS CORP LLC ; CRYSTAL LAGOONS CURACAO BV ; NATHALIE GRIMAU ZAVATTARO ; CRYSTAL WATERS S A ; FISCHMANN TORRES FERNANDO BENJ ; FERNANDO BENJAMIN FISCHMANN TO ; TORRES FERNANDO BENJAMIN FISCHMANN ; FISCHMANN TORRES FERNANDO BENJAMIN ; CRYSTAL LAGOONSCORPORATION LLC

Assignee(s): CRYSTAL WATERS SA ; INTELLECTUAL PROPERTY CENTER 28 UPPER MCKINLEY RD MCKINLEY HILL TOWN CENTER FORT BONIFACIO TAGUIG CITY 1634 PHILIPPINES TEL NO 238 6300 WEBSITE HTTP WWWIPOPHILGOVPH E MAIL MAIL IPOPHILGOVPH VOLUME 15 NUMBER 49 DATE RELEASED OCTOBER 29 2012 ; FERNANDO BENJAMIN FISCHMANN TORRES ; CRYSTAL LAGOONS LLC CORP ; CRYSTAL LAGOONS ; CRYSTAL LAGOONS CORP

Inventor(s): (std): FERNANDO BENJAMIN FISCHMANN TO ; FISCHMANN FERNANDO BENJAMIN TO ; FISCHMANN TORRES FERNANDO BENJ ; FISCHMANN TORRES FERNANDO BENJAMIN ; BENJ FISCHMANN TORRES FERNANDO ; BENJAMIN FISCHMANN TORRES FERNANDO ; TORRES FERNANDO BENJAMIN FISCHMANN ; TORRES FERNANDO BENJAMIN FISHMAN ; FISCHMANN TORRES ; FERNANDO BENJAMIN FISCHMANN TORRES FBF ; FERNANDO BENJAMIN FISCHMANN TORRES ; FERNANDO BENGAMIN ; FERNANDO BENJAMIN ; FISHMANN TORRES FERNANDO BENJAMIN ; FISCHMANN FERNANDO BENJAMIN TORRES ; FERNANDO BENJAMIN FIHSCMANN TORRES ; TORRES FERNANDO BENJAMIN FISCH

Inventor(s): AI CHING LIM ; TORRES FERNANDO BENJAMIN FISHMANN ; CHRISTOPHER MEHLIN ; HONGXING ZHO ; RANDAL R KETCHEM

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; ROBIC; CLARKE MODET AND CO CHILE LIMITADA; DILIA MARIA RODRIGUEZ; CARVAJAL Y URQUIJO ISABEL ET AL; SULEIMAN I AL AMMAR LAW OFFICE; SIMON LAVIE; BUCOY POBLADOR AND ASSOCIATES; ANDREWS KURTH LLP; MERCHANT AND GOULD PC

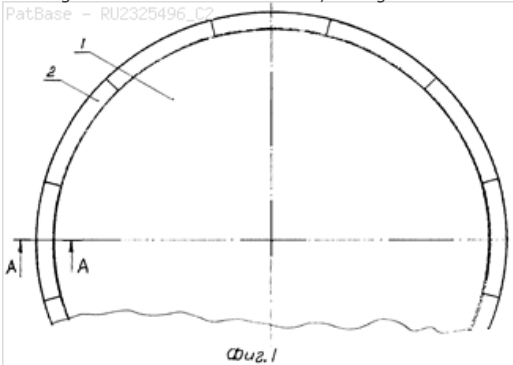
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO RS SE SI SK TR

Title: SWIMMING POOL

Abstract: Source: RU2325496C FIELD: construction, water supply. SUBSTANCE: principle applies to construction of individual and communal swimming pools with a bleed system of water filtration. A swimming pool has a water tight enclosure and bleed channel. The front wall of the bleed trough is done below the level of its back wall and is furnished with bleed channels facing inside and floating flexible bleed mats. Lids of the bleed channels have partitions with wedge shaped parts facing down. At the ends of the wedged partitions, towards the pool reservoir, there are grates for the initial filtration of water. At the end of the wedged partition surfaces, towards the bleeding channels, there is a metallic grate for second filtration of water. Along the bottom of the bleeding channels there are porous materials with low hydraulic resistances, made in the form of polyurethane foam blocks, compactly placed one to the other with spaces relative to its walls. They are clasped above the base of sedimentation trays, which is paced on the whole perimeter of the bleed channel. They are compactly joined between one another in a closed ring and has a front wall with downward inclined shelves in the direction of the pool and walls bending down and abutting on the bottom edge of the bleed channel and forming the front wall of the bleed channel. On the inclined shelves there is an internal edge of the bleed mat and is clasped to the top of the lower frame plank of the inclined grate, and a downward bend shelf which is covered by a spacing of the front wall in which the whole perimeter has through holes. From the side of the reservoir, the through holes are closed by valves in the form of dangling down stripes of the internal edge of the bleed mat. Part of the bleed channel that is between the filtrating material and the front wall, is connected by pipes with suction fittings of an electric pump. The back wall of the sedimentation channels have upward shelf inclined in the direction of the bleed mat up to the inclined grate with through windows, closed from the side of the bleed mat by filtrating micro grits for water cleaning. The bleed mat is made of brush cilium, placed along its external edge. The shelves of the back wall are made up with an inclination angle, that ensures interaction of brush cilium with surfaces of the filtration micro grits which are positioned toward it at any operational position of the bleed mat. The principle ensures the necessary level of water cleaning in case of a non regular or short-lived use of a pool in which the water self cleaning system becomes less effective. EFFECT: ensuring water cleaning in case of a non regular or short-lived use. 2 cl, 3 dwg

Classifications:

International (ipc 8-9): E04H4/00 E04H4/16 (Advanced/Invention); E04H4/00 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
RU2006108984 A	20070927	RU20060108984	20060321
RU2325496 C2	20080527	RU20060108984	20060321

Priority:

RU20060108984 20060321

Probable Assignee: SOLDATOV ALEKSANDR LEONIDOVICH
Assignee(s): (std): SOLDATOV ALEKSANDR LEONIDOVICH
Inventor(s): (std): SOLDATOV ALEKSANDR LEONIDOVICH

Title: METHOD AND SYSTEM FOR TREATING WATER USED FOR INDUSTRIAL PURPOSES

Abstract: Source: US2012024794A A low cost method and system for treating water, which will be used in an industrial process, is provided. A system of the invention generally includes at least one containing means, at least one coordination means, at least one chemical application means, at least one mobile suction means, and at least one filtration means. The coordination means can control the necessary processes depending on the system needs (e.g., water quality or purity). The method and system of the invention purifies the water and eliminates suspended solids without the need of filtering the totality of the water volume, but only filtering a small fraction of up to 200 times less than the flow filtered by a conventional water treatment filtration system.

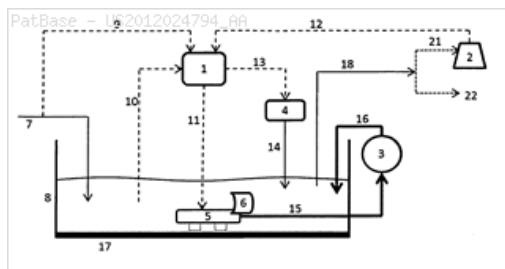
Classifications:

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US: 1/1 210/141 210/141S 210/170.09 210/665 210/709 210/709S 210/712 210/712S 210/721 210/742 210/747.9



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Probable Assignee: CRYSTAL LAGOONS CURACAO BV

Assignee(s): (std): CRYSTAL LAGOONS CORP LLC ; CRYSTAL LAGOONS CURACAO BV ; CRYSTAL LAGOONS CURACAO KAYA BV ; FERNANDO FISCHMANN T ; FISCHMANN T FERNANDO

Assignee(s): FISCHMANN T ; CRYSTAL LAGOONS LLC CORP

Inventor(s): (std): FISCHMANN FERNANDO ; FISCHMANN FERNANDO T ; FISCHMANN T ; FISCHMANN T FERNANDO ; FISCHMANN T FERNANDO FT ; FISCHMANN TORRES FERNANDO BENJAMIN ; T FERNANDO FISCHMAN ; T FERNANDO FISCHMANN ; FERNANDO FISCHMANN T

Inventor(s): FISCHMANN TFERNANDO FT ; FERNANDO T FISCHMANN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; ROBIC; ESTUDIO CLARKE MODET CO LIMITADA; SILVANA MARIA LOPEZ DIAZ; CARVAJAL Y URQUIJO ISABEL; FRICK ROBERT; SIMON LAVIE; DREW AND NAPIER LLC; TOLGA CAYLAK; MERCHANT AND GOULD PC; KOWALCHYK KATHERINE M

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 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 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

Title: METHOD AND SYSTEM FOR THE SUSTAINABLE COOLING OF INDUSTRIAL PROCESSES

Abstract: Source: US2012091069A A method and system for treating water, and using the treated water for the cooling of industrial processes is disclosed. The water is treated and stored in a large container or artificial lagoon, has high clarity and high microbiological quality. A system of the invention generally includes a containing means, such as a large container or artificial lagoon, a coordination means, a chemical application means, a mobile suction means, and a filtration means. The coordination means monitors and controls the processes in order to adjust water quality parameters within specified limits. The large container or artificial lagoon can act as a heat sink, absorbing waste heat from the industrial cooling process, thus creating thermal energy reservoirs in a sustainable manner, which can be later used for other purposes. The method and system can be used in any industrial cooling system with any type of water available, including fresh water, brackish water, and seawater.

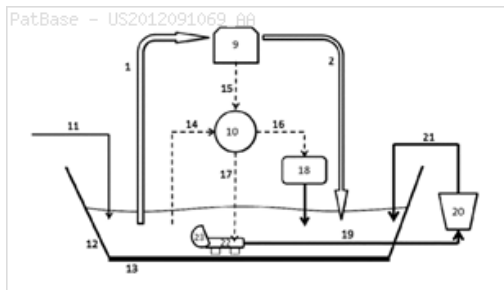
Classifications:

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CPC: C02F1/5281 B01D35/14 B01D36/04 C02F1/008 C02F1/44 C02F1/56 C02F1/72 C02F1/78 C02F5/08 C02F9/00 C02F2103/023 C02F2103/42 C02F2209/02 C02F2209/04 C02F2209/11 Y02W10/37 B01D24/00 B01D35/02 C02F1/442 C02F1/444 C02F1/52

European: C02F9/00 M02F1/00T M02F1/44 M02F1/72 M02F1/78 M02F209/02 M02F209/04 M02F209/11 M02F5/08

US: 1/1 210/182 210/184 210/198.1 210/198.100S 210/742 210/746 210/758 210/764



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Probable Assignee: CRYSTAL LAGOONS CURACAO BV

Assignee(s): (std): CRSY TAL LAGOONS CURACAO BV ; CRYSTAL LAGOONS CORP LLC ; CRYSTAL LAGOONS CURACAO BV ; CRYSTAL LAGOONS CURACAO KAYA BV ; FISCHMANN T FERNANDO ; KENNEDY 907012 FLOORVITACURASANTIAGO CHILE ; FISCHMANN T FERNANDO BENJAMIN

Assignee(s): KENNEDY 9070 ; KRYSTAL LAGUNA CURACAO BV ; CRYSTAL LAGOONS LLC CORP ; FISCHMANN T

Inventor(s): (std): FISCHMANN ; FISCHMANN FERNANDO ; FISCHMANN FERNANDO T ; FISCHMANN T FERNANDO ; FISCHMANN T FERNANDO FT ; FISCHMANN TORRES FERNANDO BENJAMIN ; FERNANDO FISCHMANN T ; T FERNANDO FISCHMANN ; FISCHMANN T FERNANDO BENJAMIN

Inventor(s): FISCHMANN TFERNANDO FT ; FERNANDO T FISCHMANN ; KENNEDY 9070 ; FISCHMANN T

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; ROBIC; ESTUDIO CLARKE MODET CO LIMITADA; SILVANA MARIA LOPEZ DIAZ; CARVAJAL Y URQUIJO ISABEL; FRICK ROBERT; DREW AND NAPIER LLC; TOLGA CAYLAK; MERCHANT AND GOULD P C; MERCHANT AND GOULD PC; KOWALCHYK KATHERINE M

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 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 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