

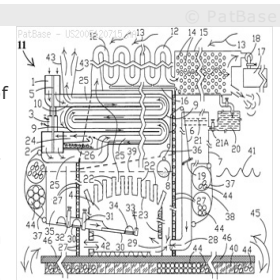
1) Family number: 30545299 (US2005120715A)

HEAT ENERGY RECAPTURE AND RECYCLE AND ITS NEW APPLICATIONS

Abstract: Source: US2005120715A What has been created is a plurality and a variety of processes and a variety of devices correspondingly supportive to each process, wherein, a new partnership between; (1) a heat absorbing radiator compressed air pipes/tubes and (2) a gas turbine engine or a reciprocating piston engine,-is used to recapture and reconvert the, otherwise wasted, heat energies expelled by engines, by factories, by smelting plants, by distillation plants, by chillers/coolers/freezers, by cooking ovens, by lamps/stoves, by trash burners, and the heat energies created by the solar heat on the desert/ocean water,-into electric power and finally into hydrogen-deuterium fuel,-by having the engine's tailpipes submerged in cold compressed air inside the heat absorbing radiator pipes in reverse air flow, to further drive and re-drive the same engine; wherein, in order to capture fusion heat energy the hydrogen bomb is detonated in the deep ocean to catch the flames by the water and the hot water is used to energize the compressed air inside the heat absorbing radiator pipes; wherein, in order to produce fusion energy, an abundant electric arc is passed across liquid deuterium or across gaseous deuterium by the electro-plasma torch and sparkplug in the internal combustion engine, and by detonating a dynamite inside a liquid deuterium; wherein diamond is produced by placing carbon inside the hydrogen bomb; and wherein, deuterium fusion flame is used first in smelting glass to large sizes before running an engine.

Probable Assignee: CHRISTIAN SCHOOL OF TECHNOLOGY CHARITABLE FOUNDATION TRUST

Earliest Publication Date: 19880712



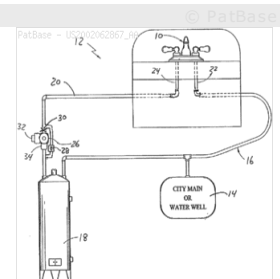
2) Family number: 29746685 (US2002062867A)

WATER CONTROL FIXTURE HAVING THERMOSTATICALLY CONTROLLED BYPASS VALVE

Abstract: Source: US2002062867A A water control fixture having an operating valve and a thermostatically controlled bypass valve disposed in the fixture for bypassing water away from the fixture until the water temperature reaches a desired level. When pressurized water from the hot water heater reaches the desired temperature level at the fixture, the bypass valve closes and hot water is made available to the fixture. The bypass valve has a thermal actuator element that is thermally responsive to the temperature of the water. The fixture can have a housing with an interior chamber for operatively receiving the bypass valve. Various passages or channels can be provided to facilitate communication between the bypass valve and the water supply lines. Alternatively, the bypass valve can be positioned in the operating valve, including the moveable ball and the replaceable cylindrical valving cartridge types. A system using the in-fixture bypass valve is also provided.

Probable Assignee: GRUNDFOS PUMPS MFG CORP

Earliest Publication Date: 20020530



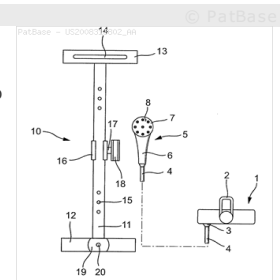
3) Family number: 33337374 (US2008313802A)

SHOWER DEVICE

Abstract: Source: US2008313802A A shower device is attached to a wall and is not connected in a fixed manner to the interior shower or to an additional hand shower. A hose that extends from a plumbing fixture to a hand shower is used for supplying the shower device or hand shower. The hand shower has an outlet for water discharged from the hose. The outlet can be joined to an inlet into the shower device such that the water reaches the shower device via the hand shower. The shower device can be configured as a wall-mounted rod. Preferably, the connection that redirects the water is established by a mechanical coupling device.

Probable Assignee: HANS GROHE AG

Earliest Publication Date: 20060907



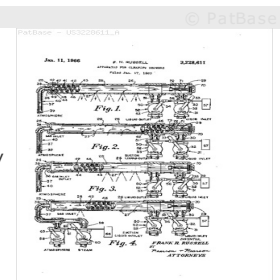
4) Family number: 26349478 (US3228611A)

APPARATUS FOR CLEANING SHOWERS

Abstract: Source: US3228611A 986,311. Spraying. BOLTON-EMERSON S.A. Jan. 10, 1964 [Jan. 17, 1963], No. 1235/64. Heading B2F. [Also in Division D2] A shower tube 26, having spray orifices 27, is cleaned by closing the liquid inlet pipe 30 and opening suction pipe 51 located adjacent pipe 30. Sediment in orifices 27 is sucked into tube 26, and then swept into pipe 51 by a cleaning plug 42 which is sucked along the tube. End 25 of the tube is normally connected to the atmosphere but may be connected to a steam supply so that as plug 42 moves along the tube steam may enter the tube behind it to melt any wax and c. in the orifices. Valves 31, 53, 58 and 60 may be operated manually or by timers 57, 66.

Probable Assignee: BOLTON EMERSON

Earliest Publication Date: 19650317



5) Family number: 53000258 (US2014197344A)

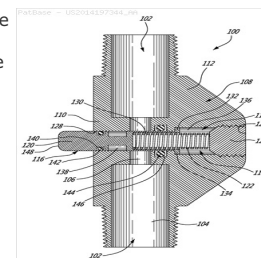
MANUALLY OPERATED VALVE FOR A SHOWER INSTALLATION SYSTEM



Abstract: Source: US2014197344A Embodiments of a manually operated valve for a shower installation system are described herein that include: an inlet and an outlet configured for installation of the valve along piping and a valve debit control mechanism including a valve chamber that defines a passage between the inlet and outlet, and a valve actuator that biases the valve debit control mechanism towards a closed position wherein the passage is obstructed and which is movable towards an opened position wherein the passage is opened when a triggering force is applied onto the valve actuator. The valve limits the consumption of water in a shower by automatically preventing the flow of water therethrough unless a user voluntarily triggers and maintains the opening of the valve.

Probable Assignee: P2 SOLUTIONS

Earliest Publication Date: 20130131



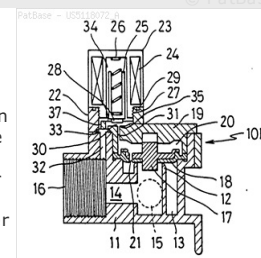
6) Family number: 5036379 (US5118072A)

SOLENOID VALVE

Abstract: Source: US5118072A A solenoid valve is formed with a first pressure chamber defined to be above a valve seat with and from which a valve member engages and disengages and to communicate with a fluid supply side within a valve housing, and solenoid means mounted to the valve housing with a pilot valve interposed between them while defining a pilot chamber below the pilot valve and a second pressure chamber above the pilot valve, the pilot chamber communicating with the first pressure chamber and with a fluid discharge side of the valve member. The pilot valve actuated by the solenoid means for a relatively smaller displacement allows the main valve member to be actuated to open and close the valve, whereby the solenoid means and eventually the entire valve can be minimized in size, and any impurity contained in flowing fluid can be prevented from adhering to a movable member in the solenoid means for assuring a highly reliable operation of the valve for a long term.

Probable Assignee: MATSUSHITA ELECTRIC WORKS LTD

Earliest Publication Date: 19910722



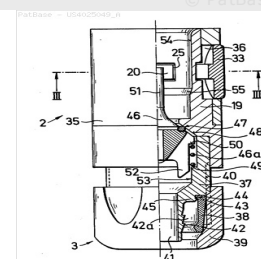
7) Family number: 1493473 (US4025049A)

HOSE COUPLING

Abstract: Source: US4025049A Hose coupling of the kind having at least two axially interconnectable members, with retaining means for releasably interconnecting at least one pair of the members, comprising a plug portion and a connector portion, and a manually operable pressure member slightly protruding from the connector portion for releasing the interconnection between the plug and the connector portions; wherein the plug portion has a shank region with a circumferential groove therein; while the connector portion has at least one recess therein, with a corresponding number of claws in the latter, that are part of the retaining means, adapted to engage the groove in the shank region of the plug portion. The invention also relates to a handle-shaped embodiment of the plug portion, and to a distribution box that can have several outlet branches. Any of the inventive members of the hose coupling may have a hose clamp attached thereto, leading to an external consumer point.

Probable Assignee: VOSS ARMATUREN

Earliest Publication Date: 19760401



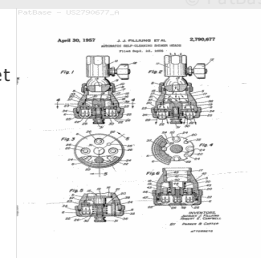
8) Family number: 21866335 (US2790677A)

AUTOMATIC SELF-CLEANING SHOWER HEADS

Abstract: Source: US2790677A (Claim 1) 1. In an automatically self-cleaning shower head, a casing having an inlet and an outlet, a cap member arranged on the outlet end of said casing and having a plurality of spray discharge openings therein, a plurality of spray dispersing plugs in said casing, there being one spray plug associated with each of said spray openings, a piston in said casing, means on said piston for supporting said spray plugs in spaced relationship to the associated spray openings, said piston responsive to water flow into said casing for projecting said spray plugs into said spray openings to produce a spray discharge therefrom, means in said casing for adjustably limiting the extent to which said spray plugs are projected into said spray openings, means for withdrawing said spray plugs from said spray openings to drain said casing after water flow ceases, and guiding means on said cap member cooperating with said spray plug supporting means on said piston to insure that said spray plugs will be in alignment with their respective spray discharge openings when projected therein,

Probable Assignee: SLOAN VALVE CO

Earliest Publication Date: 19570430



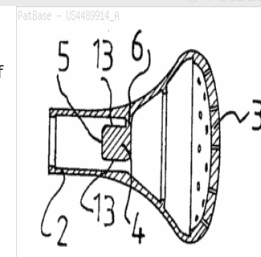
9) Family number: 4608093 (US4489914A)

VALVE ASSEMBLY

Abstract: Source: US4489914A The valve assembly of the present invention is intended for use, within a section of pipe, to control the flow of a fluid within the pipe. The invention discloses an arrangement in which two sections of concentric pipe are slidable with respect to each other between a first position which allows fluid to flow along the pipe and a second position in which fluid flow is stopped. The outer section of pipe has a sealing plug supported in an annular position within its bore which either abuts the end of the inner section of pipe to close the valve or is separated from it to open the valve.

Probable Assignee: CAPEX IND

Earliest Publication Date: 19841225



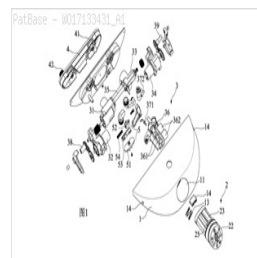
10) Family number: 63408736 (WO17133431A1)

INTELLIGENT SHOWER

Abstract: Provided is an intelligent shower, comprising a shower box (1), a master control unit (2), an execution module (3), a cold and hot water coupling assembly (4), and a locking structure (5). The shower box (1) is locked and fixed on the cold and hot water coupling assembly (4), and the cold and hot water coupling assembly (4) is installed on a wall-mounted cold and hot water interface, and provided with a cold water inlet (41) and a hot water inlet (42); the master control unit (2) is installed on the shower box (1) via the locking structure (5) and can be independently disassembled, and comprises a single chip control module (21), a control module (22), and a power module (23); the power module (23) provides power to the master control body (2) and the execution module (3); and the execution module (3) is installed within the shower box (1) and driven by the single chip control module (21).

Probable Assignee: XIAMEN EASO CO LTD

Earliest Publication Date: 20160831



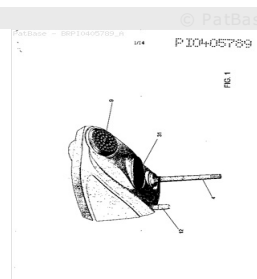
11) Family number: 31970955 (BRPI0405789A)

APERFEICOAMENTO EM CHUVEIRO ELETRICO IMPROVEMENT IN ELECTRIC SHOWER (MACHINE TRANSLATION)

Abstract: Source: BRPI0405789A 1 . . . ? 2 ss## M # # « ss # » # # . . . ss » # # ss # # RESUMO APERFEICOAMENTO EM CHUVEIRO ELETRICO, tendo uma camara de aquecimento (1), em cuja parte posterior esta integrado um complemento estrutural (2) de montagem para a parte eletrica de regulagem de potencia (3) 5 e respectivo botao inferior de regulagem (4), como tambem nesta parte estrutural esta montada a conexao de entrada (5) do chuveiro em um ponto qualquer de fornecimento de agua, de modo que a mesma possa fluir para o interior da camara de aquecimento (1) que, por sua vez, no seu lado anterior, possui uma conexao de saida (6), onde esta acoplado o desviador (7), o qual io tem duas saida de agua, seja ela aquecida ou nao, uma frontal na forma de conexao (8) acoplada a um crivo ou ducha (9) e uma lateral (10) que, por sua vez, prolonga-se por um tubo flexivel (11) ate uma conexao posterior (12), verticalmente voltada para baixo, onde e acoplado a mangueira (M) de um chuveirinho manual convencional (V), de modo que a agua que entra pela 15 conexao posterior (5) possa fluir ate a camara de aquecimento (1) e desta para o desviador (7), onde o fluxo de agua pode sair pelo crivo (9) ou ser desviado para a saida lateral (10) e desta para o chuveirinho manual (V), sendo que, ainda, na parte eletrica de regulagem de potencia (3) estao conectados os fios (13) que, em conjunto com os fios de alimentacao (14-15), formam um 20 circuito de alimentacao eletrica controlado que passa por sobre a camara de aquecimento (1), onde sao devidamente ligados em conjunto tambem com o dispositivo de acionamento que liga e desliga o aparelho automaticamente com a pressao da agua, dispositivo este montado em uma caixa complementar (16) que faz parte integrante da saida (6). 1 . . . ? 2 M # # " ss # " # # ss » # # ss # # SUMMARY IMPROVEMENT IN SHOWER ELECTRIC, having a heating chamber (1), in whose back is integrated structural supplement (2) assembly for the electrical part of power regulator (3) 5 and its lower adjustment button (4), and also this structural part this mounted on the inlet connection (5) of the shower at any point of supply water, so that it can flow into the heating chamber (1) which, in turn, on its front side, has a connection outlet (6), which is coupled diverter (7), which i has two outlet water, whether heated or not, a front in the form of connection (8) coupled to a sieve or showers (9) and a side (10) which, in turn, extends through a flexible tube (11) until a subsequent connection (12) vertically facing down, where and coupled to the hose (M) of a conventional manual spray head (V) so that the water that enters by 15 subsequent connection (5) can flow into the heating chamber (1) and from there to the diverter (7), where the water flow can leave the sieve (9) or be diverted to the side output (10) and from there to the manual showerhead (V), and also in part electric power regulator (3) are the wires connected (13) which, together with the feeding wires (14-15) form a 20 controlled electric feeding circuit passing over the heating chamber (1), which are properly connected together also with the drive device that switches the unit automatically with the pressure of water, device this fitted in a complementary box (16) which forms part of the outlet (6).

Probable Assignee: LORENZETTI CLAUDIO LOURENCO

Earliest Publication Date: 20050531



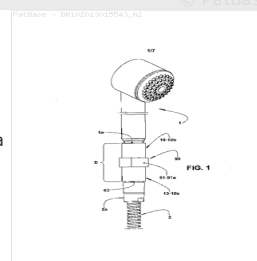
12) Family number: 59941267 (BR102013015543A)

DISPOSITIVO DE CONTROLE DE FLUXO PARA UMA DUCHA MANUAL FLOW CONTROL DEVICE FOR A MANUAL SHOWER (MACHINE TRANSLATION)

Abstract: Source: BR102013015543A RESUMO "DISPOSITIVO DE CONTROLE DE FLUXO PARA UMA DUCHA MANUAL" O dispositivo compreende: um corpo tubular (10) tendo um rasgo (R), circunferencial, um extremo de entrada (11) a 5 ser acoplado a um conector de solda (2a) de um conduto flexivel (2) e um extremo de saida (12) a ser acoplado a um bocal de entrada (1a) da ducha manual (1). O corpo tubular (10) carrega uma pastilha ceramica fixa (20) tendo uma janela mediana (21) aberta para a entrada de 10 agua, uma pastilha ceramica movel (30) provida de uma janela mediana (31) e assentada contra a pastilha ceramica fixa (20) e uma haste tubular (40) tendo um primeiro extremo (41) acoplado a pastilha ceramica movel (30) e aberto para a janela mediana (31) desta e um 15 segundo extremo (42) aberto para o extremo de saida (12). Um volante (90) e disposto atraves do rasgo (R) e acoplado a haste tubular (40), para poder girar esta ultima e a pastilha ceramica movel (30) entre posicoes de desalinhamento total e de alinhamento das janelas 20 medianas (21, 31), produzindo o fechamento e a abertura do dispositivo. ABSTRACT "FLOW CONTROL DEVICE FOR A MANUAL SHOWER" The device comprises: a tubular body (10) having a slot (R), circumferential, input end one (11) to 5 be coupled to a connector outlet (2a) of a flexible conduit (2) and an outlet end (12) being coupled to an input nozzle (1a) of the manual shower (1). The tubular body (10) carries a fixed ceramic insert (20) having a median window (21) open to the inlet 10 water, a ceramic movable insert (30) provided with a median window (31) and seated against the ceramic insert fixed (20) and a tubular shaft (40) having a first end (41) coupled to chip Ceramic mobile (30) and open to the median window (31) of this and 15 seconds end (42) open to the output end (12). One wheel (90) and disposed through the slot (R) and coupled to the tubular shaft (40) in order to rotate the latter and the pellet ceramic housing (30) between positions of complete misalignment and alignment of the windows 20 medians (21, 31), producing the closing and opening of the device.

Probable Assignee: DURATEX SA

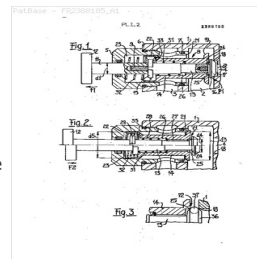
Earliest Publication Date: 20150714



13) Family number: 16555311 (FR2388185A)

INVERSEUR A RETOUR AUTOMATIQUE POUR L'ALIMENTATION D'UNE BAIGNOIRE OU D'UNE DOUCHE PUSHBUTTON INVERSION VALVE IN BATHROOM - DIRECTS WATER TO SHOWER OR OUTFALL WITH TWO PIECE OSCILLATING RECOIL-SPRUNG PLUG AND COMPENSATING PILOT VALVE

Abstract: Source: FR2388185A Inverseur comportant un obturateur 8 cooperant avec des sieges opposes de goulot 21 et de douche 18, et un organe de commande 12 pour l'amener sur le siege de goulot 21 contre l'action de moyens elastiques 32, dans lequel l'obturateur 8 comprend deux elements 13, 14 constituant une soupape PI alimentant par un conduit de by-pass 26 une chambre de compensation 23 situee derriere l'obturateur, pour creer une poussee facilitant son passage en position avancee, sur le siege de douche 18, lors de l'actionnement de l'organe de commande 12. Cet inverseur trouve son application dans les installations sanitaires. The manually controlled inversion valve directs water to a shower or a simple outfall, is for use in a bathroom. It includes spring (32) recoil, and has a compensating system which facilitates the switch from outfall to shower while water flows. The unit has an oscillating piston type plug (8) which effects the switch under a manual push or a pull on an externally accessible piston rod (11, 2). The recoil spring (32) moves the plug (8) to the outfall position when no water flows. The unit has an inlet chamber (2) and an outlet chamber (3, 4) for the outfall and the shower resp. The plug comprises a sleeve (14) and a piston rod (13) which are capable of relative axial displacement. To move the plug (8) from the shower to the outfall position, i.e. engaging and disengaging valve seats (18, 21) respectively, a thrust is applied to the knob (12).



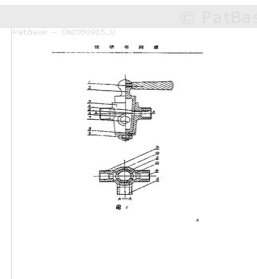
Probable Assignee: KUGLER FONDERIE ROBINETTERIE

Earliest Publication Date: 19781115

14) Family number: 17291652 (CN2050915U)

ROTARY PLUG WITH ADJUSTABLE MIXTURE RATIO OF COLD AND HEAT WATER

Abstract: Source: CN2050915U The utility model relates to a rotary plug which can adjust the mixing ratio of cold and heat water, comprising a rotary plug body, a hollow rotary plug core, a handle, etc. The rotary plug is characterized in that the both ends of the rotary plug body are respectively provided with a water inlet; two water inlet holes are arranged at the height positions of the hollow rotary plug core where is corresponding to the water inlets; the lower part of the rotary plug is provided with a water outlet which is corresponding to the water outlet hole of the hollow rotary plug core. The handle is rotated to enable the hollow rotary plug core to rotate, which alters the effective cross section of the water inlet holes of the hollow rotary plug. Thus, the inflow of the cold and the heat water is altered. The utility model can replace two manual adjusting valves. The rotary plug is especially adapted to adjust the water of shower in a bathroom. The rotary plug is easy in use, and can save water.



Probable Assignee: WANG SIJUN

Earliest Publication Date: 19900110

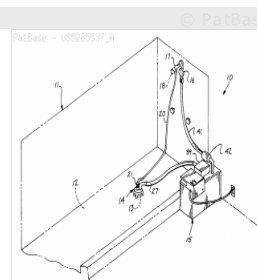
15) Family number: 11450798 (US5285537A)

SHOWER WATER RECYCLING APPARATUS

Abstract: Source: US5285537A An apparatus including a pickup head mounted to a shower stall floor and selectively over the drain thereof is operative through a storage tank assembly to direct fluid from the shower stall floor into the storage tank for subsequent pressurized flow to an auxiliary shower head by way of an auxiliary shower head conduit to permit the recycling, heating, and filtering of water directed to the shower stall floor.

Probable Assignee: HANKS FREDERICK F

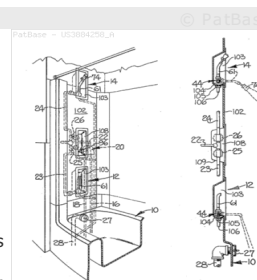
Earliest Publication Date: 19940215



16) Family number: 1141441 (US3884258A)

RETRACTABLE BATHROOM FIXTURE

Abstract: Source: US3884258A A bathroom fixture assembly for delivering water to a bathtub or the like at a predetermined temperature and wherein the assembly includes a delivery spout which is pivotally mounted for movement between a first outwardly extending position wherein water is delivered therethrough and a second retracted position wherein no water is delivered. The assembly includes a tubular member adapted to be connected to a water inlet line, the tubular member having an outlet opening in the side wall thereof. A sleeve surrounds the tubular member opening and includes an outlet opening in the wall thereof. A discharge spout extends outwardly from the opening of the sleeve, and the sleeve and spout are mounted for rotational movement about the tubular member so as to selectively align the two openings to permit flow of water therethrough when the discharge spout is directed outwardly, and to close the openings when the discharge spout is rotated to a retracted vertical position. Also, temperature control means is provided which is adapted to automatically adjust the relative quantities of water entering from hot and cold water lines to thereby maintain a preselected temperature.



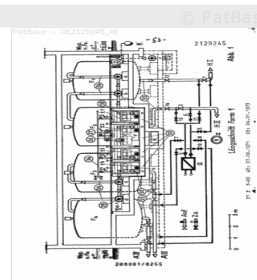
Probable Assignee: MULL LEONARD E

Earliest Publication Date: 19750520

17) Family number: 1507153 (DE2129245A1)

VERFAHREN ZUR REINIGUNG UND TEMPERIERUNG DES UMLAUFWASSERS VOR DEN FILTERN IN SCHWIMMBAEDERN MIT VERTIKALSTROEMUNG AND PROCEDURE FOR CLEANING THE CURRENT WATER TEMPERING BEFORE THE FILTER IN SWIMMING POOLS WITH VERTIKALSTROEMUNG (MACHINE TRANSLATION)

Abstract: Source: DE2129245A1 Verfahren zur sparsamen Aufrechterhaltung von Menge, Reinheit und Temperatur des Badewassers, mit staendig ueber Becken, Pumpensaugkammer, Vorfiltersieb, Pumpe, Filter und Heizaggregat umgewaelztem Badewasser, ueber Filteranlagen ueber Gelaende, unter Gelaende, mit geschlossenen oder offenen Filtern, im besonderen ueber eine kostensparende hochleistungsfaehige neue erfindungsgemaesse Hochbehaelter-Filter- anlage mit kleinem Flaechen- und Raumbedarf, mit kurzen Rohrleitungen, offenen Filtern, in mehreren unterschiedlich temperierten Umwaelzkreisen fahrbar, ohne Roh- und Reinwasserkammer, besonders fuer Schwimmbecken mit Aufwaertsoder "Vertikalstroemung" und Ruecklauf ueber abgedeckte Gross raum- Ueberlaufninnen dadurch gekennzeichnet, dass die bekannten offenen Filter (F) einer Filteranlage (Form 3, Abb 5 und 6) nach dem erfindungsgemaessen Verfahren hoch ueber dem Gelaende ueber dem Maschinenraum angeordnet sind, dass das Filtrat, jedes einzelnen vom anderen ge trennten Filter, mit grossem Schweredruck in die einzelnen Schwinnbecken eingespeist wird, von wo es im Einzelumaelz- kreis das jeweilige Becken ueber eine, volumen- und gefaellgerecht gebaute Ueberlaufninne (17) unter freiem Gefaelle ablaufgesteuert wieder verlaesst, und in einer kleinen Pumpen saugkammer (20) ueber eine erfindungsgemaesse automatisch arbeitende Schutzabscheideanlage vom groben und feinen Schmutz befreit, ueber aufgeheiztes Trinkwasser aus einer Warmwasser-Speicherkammer (56) auf den urspruenglichen Wasserstand nachgefuellt, gereinigt und richtig



temperiert ueber die automatisch geschaltete Umwaelzpumpe (29) zur Wiederaufnahme der Umwaelzung zum Filter hochgepumpt wird, dass der Fuellwasserzulauf solange ueber die erfindungsgemaesse Schmutzabscheideanlage, ueber bekannte Schwimmerventilsteuerung oder elektrische Schwimmschalter, Tauchelektroden oder Membrantaster, aufrechterhalten bleibt, bis auf dem Filter und im Pumpensaugkammeraum der Normalwasserspiegel wieder hergestellt ist, der auf dem Filter (F) bei Pumpenabschaltung, ueber ein erfindungsgemaesses schwimmergesteuertes Selbstschlussventil (51,52) auf einem niedrigeren Tasser- spiegel abgesunken, festgehalten war, dass das schwiDmer- gesteuerte Selbstschlussventil (51,52), der Hochbehälter- Filteranlage (Abb 6) erfindungsgemaess durch Hebelueberhebung oder kleinem Ventil (74) im grossen Ventilkegel belastungsmindernd ausgefuehrt ist, dass die Ueberlaufrinne (17) in Volumen und Hoehenlage nach einer erfindungsgemaess aufgeteilten Formel (Fo) m^2 Schwimmbadflaeche geteilt durch 4, Zwischenergebnis geteilt durch 14, Zwischenergebnis zuzueglich 50 percent, einem Gefaele nicht unter 1::100, Ablauf nicht unter 10 cm ueber der darunterliegenden Pumpensaug- kammer (20) gebaut werden muss, dass die Ueberlaufrinne (17) erfindungsgemaess nur mit einer grossnennweitigen Ruecklaufrohrleitung (18), abgesehen von einer kleinen direkten Sicherheitsueberlaufrohrleitung (19), mit der Pumpensaug kammer (20) in Verbindung steht, ueber einen erfindungsgemaessen Automatik-Doppelchieber (m,n) zur wechselweisen Oeffnung und Schliessung der Ruecklaufleitung (18) und Kammer entleerung (n) ueber die automatische Schmutzabscheideanlage (e oder B,D,E,T, Abb 7) und einer erfindungsgemaessen Hand einstellung einer dritten Schieberstellung (50), bei der eine Ausparung (21) in der erfindungsgemaess verlaengerten durchgehenden Schieberverschlussplatte (22) bei geoeffneter Kammerentleerung (n) in der Ruecklaufleitung (18) einen Durchlass (21) zur Entleerung der Sberlaufrinne (17) oeffnet, dass die Ueberlaufrinne (17) gleichzeitig Speicher- kammer fuer Verdraengungswasser ist, durch Anordnung einer am Ruecklaufroehrende erfindungsgemaess ss angebrachten Schwier- ruecklaufsperr (t), die so gross ist, dass sie durch Wasserverdraengung im Pumpensaugkammeraum eine intensive Schmutzextraktbildung von einer bekannten Zugsiebeeinrichtung ermoeeglicht und gleichzeitig den Wasserspiegelstand in der Pumpensaugkammer normal aufrechterhaelt, wobei durch festen Verschluss ueber einen Ventilsitz (24) der Wasserruecklauf aus der Ueberlaufrinne (17) gestoppt wird, dass der erfindungsgemaess im ganzen klein und niedrig gehaltene Pumpensaugkammeraum (20) in gedraengter Form nur die noetigen bekannten oder erfindungsgemaessen Organe, wie Schwimmer-, Einfuell-, Steuer-, Sieb-, Absaug-, Ueberlauf- und Ablassorgane unschliesst, dass der Kammeraum (20) durch zwei herausziehbare bekannte Zugsiebe (26,27), in zwei Teile, den Grobschmutz- und den Feinschmutzraum (r,s) geteilt ist, die erfindungsgemaess unverwechselbar angeordnet sind, erst das grobmaschige Zugsieb (26), dann das erfindungsgemaess sehr feinmaschige Zugsieb (27) in Richtung des normalen Umwaelzkreislaufts, dass die Zugsiebe (26,27) erfindungsgemaess an den oberen und unteren Rahmenleisten kurze Abstandsstifte (67) enthalten, mit gleichem Abstand -zueinander und -zur Rahmenaussenkante, zur Einrastung einer erfindungsgemaessen Zugvorrichtung (71) (Abb 9) zum Herausheben und Wiedereinsenken der Siebe (26,27) zur Reinigung ausserhalb der Kammer, ueber eine erfindungsgemaesse Fuehrungsleiste (71) mit Stiel und Zugseil (73), die in den Fuehrungsschienen (28) der Zugsiebe (26,27) verschiebbar gefuehrt wurde wobei erfindungsgemaess drehbare Winkelkrallen (72), die ueber Hebel mit dem Zugseil in Verbindung stehen, Ueber die ASD- standsstifte (67) seitwaerts geschoben, durch Eigengewicht mit den Winkekrallen (72) hinter die Abstandsstifte fallend die Zugsiebe (26,27) festhalten; und durch Seilzug im ausgerasteten Zustand die Siebe wieder freigeben, dass die Zugsiebe (26,27) ueber einen bekannten Elektro- Hebezug maschinell bedient werden koennen, der erfindungsgemaess als fahrbares Geraet mit Halterungen versehen ist, die in entsprechende Gegenstuecke am Fussboden zur Einrastung des fahrbaren Geraets zur Arbeitsleistung eingerastet werden, dass die Umwaelzkreise (a,b,c,d), in allen moeglichen Filteranlagen- konstruktionen (zB Form 1 bis 3, Abb 1 bis 6) mit ihren Pumpensaugkammern nebeneinanderangeordnet einen Block bilden, dessen Trennwaende ueber bekannte gehaeuslose Handschieber zur Nachbarkammer zu oeffnen sind, dass eine breitere in der Blockmitte angeordnete Pumpensaugkammer (20) zur normalen Ausstattung noch einen zweiten Rohreinlauf (43) mit einer zweiten erfindungsgemaessen Schwimmerruecklaufsperr (v), wie die erste (t) neben der ersten arbeitend, eingebaut erhaelt, dass die Rohrleitung (43) ueber einen bekannten gehaeuselosen Handschieber (w) laeuft, und mit einer Sammelleitung mit mehreren auseinanderliegenden erfindungsgemaess nicht unter 1 m unter Beckenwasserspiegel angeordneten Zapfpatellen eines Schwimmbeckens fuer Spielwasser (Sp) verbunden ist die den Wasserspiegel in allen am Spielvorgang eines Filters beteiligten Pumpensaugkammern auf einen hoeheren Kammerwasserspiegel (Wsp 2) hebt und konstant haelt, fuer mehrere Pumpen zur Rueckspuelung eines jeweiligen Filters, dass der automatische Schmutzabscheidevorgang eich selbsttaetig ueber eine zum erfindungsgemaessen Verfahren gehoeerende erfindungsgemaesse Hochwasser-Niedrigwasser-Sicherungsanlage in Jeder Pwnpensaugkammer (20) entweder durch ein bekanntes Schwimmerventil (31,32) und bekannte elektrische Schwmachalter (e,p), oder durch erfindungsgemaesse Anordnung einer Gruppe bekannter Membranschalter (B,D,E,T) ueber eine erz in dungsgemaesse Anordnung einer elektrisch oder hydraulisch mechanisch wirkenden Druckwaage oder ein Registerschalt- werk (N) und eine automatisch elektrisch ueber einen erfindungsgemaessen Impulsgeber (f) geschaltete bekannte Pressmedium-Kolbenzylinder-Kraftanlage (M,j,l,k, Abb 12, J, Abb 7) erfindungsgemaess zusammengestellt, so durch den Schmutzstau im Grobschmutzraum (r) der Kammer, oder einer sonstigen Hochwasser-, Niedrigwassergefahrselbstausgeloest, den Reinigungsvorgang von Pumpensaugkammer (20) und Siebe (26,27) programmataetig durchfuehrt, zur Au-, und Einschaltung der Umwaelzpumpe (29), Schliessen und Oeffnen der betreffenden Schieber zum Ablassen des angestauten Schmutz wasser, Ruckspulung der Siebe (27,26) ueber bekannte Zeitdruckspritzduesen (68) und Nachfuellung der Kammer mit temperiertem Frischwasser ueber eine bekannte Llischbatterie (62, Abb 10) und Leitungen von bekannten Kaltwasser- und Warmwasser-Speicherkammern (57,56), die das Fuellwasser entweder ueber das bekannte schwimmergesteuerte Ventil (31,32) der erfindungsgemaessen Hochwasser-Niedrigwasser-Sicherungsanlage (e) der ersten oder den weiteren Ausfuehrungsformen ueber einen Automatik-Schieber (Q,J, Abb 7) erhalten, dass die Filteranlagen nach dem erfindungsgemaessen Verfahren durch eine erfindungsgemaesse Anordnung einer Gruppe bekannter Schieber, (1 bis 16, Abb 10), Hand- oder Automatik Schieber, Je nach Ausfuehrungsform der Anlage, wahlweise ueber einen oder mehrere erfindungsgemaesse Umwaelzkreise (a,b,c,d), ueber eine oder mehrere bekannte Pumpen (29), ueber ein oder mehrere bekannte Filter (F), mit oder ohne Zwischenschaltung eines bekannten Heizaggregats (G), erfindungsgemaess automatisch fernsteuerbar oder von Hand bedienbar zu fahren ist (#z, #z), dass das bekannte Heizqggregat (a) fuer die Aufheizung der mit Badewasser laufenden Umwaelzkreise (b,c,d, Abb 10), durch eine erftndungsgemaesse automatische Programmschaltanlage, auch Trinkwasser aus der Stadtwasser-Fuellkammer (57) ueber eine bekannte Pumpensaugleitung aufheizt, und das Aufheizwasser ueber erfindungsgemaess programmgesteuerte elektr -automatische Schalt-, SchlieB- und Steuergeraete von den Umwaelzkreisen (a,b,c,d) trennt, das Heizregister des Helzaggregats (G) spuel, ueber eine erfindungsgemaesse Zwangulperre (59), zur Absperrung des Heizaggregats von den Umwaelzkreisen unter Kurzschliessung der Sekundaerheizleitung fuer den ungestoerten Lauf der Umwaelzkreise und einer verschliessbaren Verbindungs- leitung mit bekanntem Rueckflussverhinderer in eine EinspeiBe- leitung (55) eines Beckens (H I, Abb 10), um anschliessend ueber einen erfindungsgemaessen Temperatur-Mischregler mit Absperrautomatik (60), und einem erfindungsgemaessen Doppel kontaktventil (61) mit Schwimmersteuerung auf etwa 400 C temperaturkonstant erwaermt in eine waermeisolierte Warmwasser-Speicherkammer zu fliessen, zur laufenden Versorgung der Anlage mit warmem Wasser, wobei Jeweils erfindungsgemaess zwei Wasserspiegelhoeen in der Warmwasser Speicherkammer (56) ueber Schwimmer und erfindungsgemaessen Doppelkontaktventil (61) die Saugpumpe (58) und den Primaer- heizkreis des Heizaggregats (G) ein- oder ausschalten, dass die erfindungsgemaesse programmgesteuerte Schaltanlage auch die automatische Schaltung der Umwaelzkreise (a,b,c,d) ueber entsprechende Automatik-Schieber einbezieht, dass die bekannte Pressmedium-Kolbenzylinder-Kraftanlage alle automatischen Kraefteleistungen ueber gleich welchem Medium, Pressluft, Presswasser, fressoel odgMedien, vornehmlich ueber eine bekannte Pressluft-Wlrkdruck-Anlage ueber Luftkompressor, Druckkessel und Wirkdruckpresszylindern fuer die Steuerung und Auf- Zu Stellung von vornehmlich bekannten Flachschiebern arbeitet, dass in zwei erfindungsgeniaessen Schiebern fuer die teilweise oder uebermaessige Oeffnung der Schieber (J,Q bzw m,n Abb 7) erfindungsgemaess Presskolbenzylinder mit drei Wirkdruck- anschliessen versehensind, von denen zwei direkt mit dem Druckkessel in Verbindung stehen, waehrend der dritte ueber eine Umgehungsleitung und bekanntem Magnet- oder Handventil (50),(Abb 7) die dritte Kolbenhubstellung im laengeren Zylinder auf halbem Weg begrenzt, wobei bei geoeffneter Umgehungsleitung der Krafthub an der Stelle im Zylinder beendet wird, an der das Pressmedium ueber die Umgehungsleitung hinter den Kolben dringt, dass alle Flachschieber bei Schalt anlagenaufrall auch handbedient werden koennen ueber bekannte Handgriffe erfindungsgemaess auch an den Automatik-Schiebern, die aus dem Fussboden herausragen, auch ueber den erfindungsgemaess fahrbar einsetzbaren Elektro-Hebezug ueber erfindungsgemaesse Fussbodenhalterungen, wobei das Pressmedium absusschal- ten ist, dass das auf 400 C Brausetemperatur temperaturkonstant gemachte ~~gespeicherte Trinkwasser gleichzeitig billiges Vorreinigungswasser fuer die Verwendung in Brause- staenden auch in~~

gespeicherte Trinkwasser gleichzeitig umges. Vorreinigungswasser fuer die Verwendung in Brause- staenden auch in Freibadern in zweiteiligen Durchgaengen zu den Schwimmbecken ist, das ueber Warmwasserbrausestaende (66, Abb 10) vor den bekannten Durchschreitebecken in Sommerbaedern den Badegaesten eine Moeglichkeit schafft, sich vor Betreten des Schwimmbeckenumgangs zu reinigen.

Machine translation: Methods for economical maintenance of quantity, purity and temperature of Badewassers, with constantly basin Pumpensaugkammer, Vorfiltersieb, pump, filter and heater assembly recirculated bath water over filter systems above ground, below ground, with closed or open filters, in particular about a cost-saving highpowered new invention Hochbehälter-filter system mobile with small-scale and space, with short pipes, open filters in several different temperatures recirculation, without raw and treated water chamber, particularly for swimming pools with Aufwaertsoder "Vertikalstroemung" and rewind over covered large space- overflow channels, wherein the known open filter (F) of a filter system (Form 3, Fig 5 and 6) by the method of the invention high above the terrain above the engine room are arranged so that the filtrate, each separated from other GE filter, with large gravitational pressure in the individual Schwimmbecken is fed, from where it leaves the Einzelumlaufz circuit the respective basin about one volume and gefaellgerecht built overflow channel (17) running controlled open-slope becomes, and in a small pump suction chamber (20) over an inventive will automatically operating Schmutzabscheideanlage of coarse and fine dirt free, refilled by being heated drinking water from a hot water storage chamber (56) to the original water level, cleaned and properly tempered by the automatically switched pump (29) for the resumption of circulation pumped to the filter, the Fuellwasserzulauf until about the invention Schmutzabscheideanlage, about well-known float valve control or electrical float switches, dip electrodes or membrane switches, is maintained until it is produced on the filter and the Pumpensaugkammerraum the normal water level again on the filter (F) at pump shut-off, about a novel float-controlled self-closing valve (51.52) is lower cup-mirror on a fallen, had stated that the echwidmer-controlled self-closing valve (51.52), the Hochbehälter-filter system (Fig. 6) novel by Hebelfuehrung or small valve (74) is executed on a large shuttle stress-reducing, the overflow channel (17) in volume and height position for an invention aufgeteilten formula (F) divided m2 Schwimmbadflaeche by 4, the intermediate result divided by 14, the intermediate result percent plus 50, a gap is not less than 1: 100, end not less than 10 cm over the built below pump suction chamber (20) must be that the overflow channel (17) except the invention with a grossenweitigen Ruecklaufrohrleitung (18), from a small direct safety overflow pipe (19), with the pump suction chamber (20) is connected, via a inventive automatic Doppelschieber (m, n) for alternate opening and closing of Ruecklaufleitung (18) and chamber emptying (n) through the automatic Schmutzabscheideanlage (s or B, D, E, T, Figure 7) and a novel hand-setting of a third Slide position (50), in which a recess (21) in the inventive extended continuous slide closure plate (22) with open chamber drain (s) in the Ruecklaufleitung (18) a passage (21) to clear the Sberlaurinne (17) opens, the overflow channel (17) at the same storage chamber for Verdraengungswasser is, by arranging an on Ruecklaufroehrende erfindungsgemaess attached Schwier-ruecklaufsperre (t) is so large that they through water-displacing in Pumpensaugkammerraum intensive Schmutzextraktbildung from a known Zugsiebeinrichtung allows and at the same time the water table level in the Pumpensaugkammer aufrechterhaelt normal, being about through firm closing a valve seat (24) of Wasserruecklauf from the overflow channel (17) is stopped, that the invention dungsgemaess throughout the small and low held Pumpensaugkammerraum (20) is a summary of only the necessary known or novel organs, such as float, filling, control, screen, suction, overflow and drain organs, encloses the chamber space (20) by further pull-out known Zugsiebe (26,27), in two parts, the coarse dirt and the Fine dirt space (r, s) is divided, the present invention are uniquely arranged, only the coarse-mesh Zugsieb (26), then the novel very fine mesh Zugsieb (27) in the direction of the normal circulation circuit that Zugsiebe (26,27) according to the invention to the top and lower frame rails short distance pins (67) contain the same distance to one another and to the outside frame edge for latching an inventive traction device (71) (Fig. 9) for lifting and WiEder playKen one of the screens (26,27) for cleaning outside the chamber, a novel about Fuehrungsleiste (71) with handle and pull rope (73), which was in the Fuehrungsschienen (28) of Zugsiebe (26,27) slidably guided with inventive rotatable Angle nails (72), the over lever with the cable in connection stand, On the ASD-standing pens (67) laterally pushed by its own weight with the Winkeikrallen (72) behind the spacer pins falling hold the Zugsiebe (26,27), and through cable in the disengaged state, the screens have been taken, that can the Zugsiebe (26,27) over a known electric hoist can be operated mechanically, which is the invention provided as a mobile device with mounts that are available in appropriate place counterparts on Pussboden for locking of the mobile equipment performance be engaged, that the circulation circuit (a, b, c, d) form in all possible filter plant structures (eg Form 1 to 3, Figure 1-6) juxtaposed with their Pumpensaugkarmern one block, the walls about known without housing manual shifter for Nachbarkaimmer open is that a broader arranged in the block center Pumpensaugkammer (20) for normal equipment is a second tube inlet (43) with a second novel Schwimmerruecklaufsperre (v) as the first (t) is working alongside the first receives, installed so that the pipe (43) over a known without housing manual shifter (w) is running, and with a manifold with several spaced according to the invention is not less than 1 m below pool water level arranged Zapfateilen a swimming pool for rinse water (Sp) is connected to the water level in all the flushing of a filter involved Pumpensaugkammern to a higher aqueous humor levels (Wsp 2) raises and keeps constant for several pumps for backwashing of each filter that automatically Schmutzabscheidevorgang custody selbsttaetig about one method of the invention belonging erfindungsgemaess according to high water-low water protection system in each Pwnpensaugkammer (20) either by a well-known float valve (31,32) and known electrical Schwimmachalter (e, p), or inventive arrangement of a group of prominent membrane switch (B, D, E, T) over an ore in dungsgemaesse arrangement of an electrically or hydraulically, mechanically applied pressure balance or a register switching mechanism (N) and an automatic electrically by an inventive Impulsgeber (f) switched-known press media piston-cylinder power plant (m, j, l, k, Fig 12, J, Fig 7) compiled according to the invention, in the so through the mud accumulation of coarse dirt room (r) itself retraction triggered the chamber, or other high water, low water hazard, the cleaning process of Pumpensaugkammer (20) and screens (26,27) when someone dials programmemaess, for Au, and activation of the circulating pump (29), closing and opening of the respective slide to drain off the accumulated dirt, water, Rewind the screens (27:26) over known Zeitdruckspritzduesen (68) and refill the chamber with heated fresh water over a known Llischbatterie (62, Fig 10) and lines of known cold water and hot water storage chambers (57, 56), the filling water, either via the known float-controlled valve (31,32) of the invention, flood low-water-protection system (s) of the first or the further embodiment has received an automatic slide (Q, J, Fig 7) that The filter systems according to the invention by a novel arrangement of a group of prominent valves, (1 to 16, Fig 10), manual or automatic valves, depending on the embodiment of the system, either by one or more inventive recirculation (a, b, c, d), over one or more known pumps (29), about one or more known filter (F) is to drive to operate with or without the interposition of a known heaters (G), the invention automatically controlled remotely or by hand (# z # z) that the known Heizqgregat (a) for the heating of the current with bath water recirculation (a, b, c, d, Fig 10), by a erfndungsgemaess automatic program switching, even drinking water from the city water-filling chamber (57) over a known system flow heats, and the Aufheizwasser about novel program controlled electric-automatic switching, Schliebs and control devices of the circulation circuit (a, b, c, d), separates the heating coil of Heizaggregats (G), rinsed, about an inventive Zwangulperre (59), for shut off the Heizaggregats of the recirculation circuit under short closure of the Sekundaerheizleitung for the undisturbed course of recirculation and a lockable connecting line with known backflow into a EinspeiBe line (55) of a basin (HI, Fig 10), followed by about one inventionTemperature mixing controller eat with automatic shut-off (60), and to flow to an inventive dual contact valve (61) is heated at a constant temperature with float control to about 400 C in a heat-insulated hot water storage chamber, for ongoing supply of the plant with warm water, with particular inventive two water table heights in the hot water storage chamber (56) over swimmers and inventive double-contact valve (61), the suction pump (58) and the primary heating circuit of the heater assembly (G) on or off, that the invention programmatically switching the automatic switching of recirculation (a, b, c, d over) includes appropriate automatic slide that famous press media piston-cylinder power plant all automatic power services over odgIMedien in whatever medium, compressed air, compressed water, fressoel, especially over a known compressed air Wirldruck plant over air compressor, pressure vessel and pressure differential pressure cylinders for the control and on-off position of chiefly known flat pushers worked that for two invention genia eat sliders partial or excessive opening of the valve (J, Q or m, n Fig 7) novel plunger cylinder with three differential pressure ports are provided, two of which directly with the pressure vessel in combination are, while limited, the third about a bypass line and a known magnetic or manual valve (50) (Fig. 7), the third Kolbenhubstellung in the longer cylinder midway, and in with open bypass the power stroke at the point cylinder completed, at which the press media over penetrates the ring behind the piston, that all flat-slide with switches can be operated manually anlagenaurfall also over known handles the invention also to the automatic valves that protrude from the floor, also via the inventive mobile deployable electro- hoist over

inventive floor brackets, with the pressing medium absusschal-th that at 400 C shower temperature constant temperature gemachte stored drinking water at the same time cheap Vorreinigungswasser for use in shower stalls is also Freibadern in two-part Continuity to the swimming pool, the excess Warmwasserbrausestaende (66, Figure 10) against the known-through pools in the Sommerbaedern Badagas creates an opportunity to purify themselves before entering the pool handling.

Probable Assignee: HIRT RUDOLPH

Earliest Publication Date: 19730104

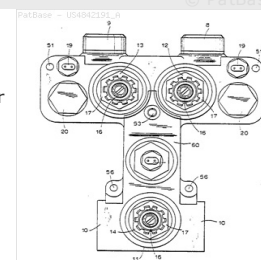
18) Family number: 19223546 (US4842191A)

TEMPERATURE-CONTROLLED MIXING FITTING

Abstract: Source: US4842191A An electronically operated mixing valve is disclosed wherein a combination of a control module which houses the electronics for electrically operating a valve module having one or more valves for mixing, shut-off and distribution of mixed water which is in contact with at least one temperature sensor, and an electromechanical motor module which is electrically connected to the valve module for automatically operating the one or more valves.

Probable Assignee: AMERICAN STANDARD INC

Earliest Publication Date: 19871112



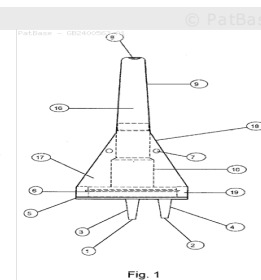
19) Family number: 27993690 (GB2400563A)

VAGINAL CLEANSING AND MASSAGING DEVICE

Abstract: Source: GB2400563A Vaginal cleansing and massaging device comprising a base 5 which forms a plug and fluid inlet and outlet ports 3, 4. Preferably, the fluid is supplied under pressure by gravity, a tap or shower. Preferably, the incoming and outgoing fluids do not mix. Incoming water may flow through central tube 16 and outgoing water may re-enter the device via holes 7 which lead to the outlet port via a reservoir 17. The device may be beneficial for treatment with medicaments and hydromassage for health or pleasure. The device may comprise an inner core and outer casing joined together. The device may be made of polypropylene. Also claimed is a disposable vaginal cleansing and massage having only an inlet tube to supply fluid from a bag which may have a thickened portion to permit manual squeezing.

Probable Assignee: AGADJANOV SEMEON

Earliest Publication Date: 20041020



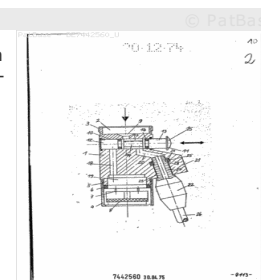
20) Family number: 16373850 (DE7442560U)

Abstract: Source: DE7442560U (Claim 1) 1) Wasseranschluss fuer Mund- und Zahnduschen, gekennzeichnet durch einen an einen Wasserhahn anschliessbaren Adapter (1), welcher an seinem Anschlussende (2) einen zentralen Ein-T, asskanal (9) aufweist, eine mit dem Einlasskanal verbundene, den Adapter in Querrichtung durchsetzende Ventilbohrung (10), innerhalb welcher ein 3-Wegeschieber (11) verschiebbar gefuehrt ist, einen von der Ventilbohrung (10) abzweigenden, mit dem Auslassende des Adapters verbundenen Kanal (18), und einen unter Abstand vom Kanal (18) gleichfalls mit der Ventilbohrung (10) verbundenen Zweigkanal (20), welcher an einer seitlich am Adapter materialeinheitlich angesetzter Steckkupplung (21) zur loesbaren Aufnahme eines mit einer Munddusch-Duese in Verbindung stehenden Kupplungs- steckers (22) muen-det.

Machine translation: (Claim 1) 1) Water supply for oral and dental showers, characterized by a connectable to a faucet adapter (1), which at its terminal end (2) a central A-T, asskanal (9), one with the inlet channel connected dene, the adapter in the transverse direction passing through the valve bore (10), within which a 3-way valve (11) slidably guided, one of the valve bore (10) branching, with the outlet end of the adapter connected channel (18), and one with distance from the channel (18) also with the valve bore (10) associated branch duct (20), which at one side of the adapter of the same material an attached plug-in coupling (21) for releasably receiving a with a mouth shower nozzle in related coupling-pin plug (22) empties.

Probable Assignee: KNORR BREMSE BOWLES FLUID

Earliest Publication Date: 19750430



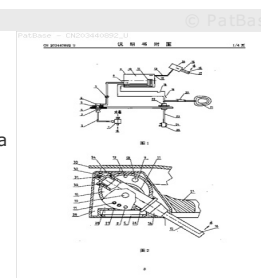
21) Family number: 55873352 (CN203440892U)

POLLUTION-RESISTANT BIDET AND RAPID WATER HEATER WITH LOW WATER-CUTTING TEMPERATURE RISE THEREOF

Abstract: Source: CN203440892U According to a pollution-resistant bidet, a structure in which a water spraying mechanism (14) passes through an electric heating chamber (10) of a water heater is used; a flow passes through a tee pressure reducing valve, a hollow screw rod for cover plate installation, a manual water inlet valve, a rapid water heater with a low water-cutting temperature rise and an insulation pipe with a high water resistance and is then ejected from the water film anti-pollution water spraying mechanism; the water heater has a horizontal-type column structure, cool water enters below one end, hot water directly flows away from a water outlet above an electric heating pipe on the other end and the waste heat temperature rise of the electric heating pipe of the hot water in the water hearer is low after the hot water is cut off; a water supply inclined hole is opened on the upper end of a water spraying rod and the effusive flow can form an anti-pollution water film (46) on the upper surface of the eater spraying rod; a ground protection plug equipped with a power change-over switch of the water heater is used, wherein a light-emitting diode on the plug is lighted when a ground wire is connected and the light-emitting diode is put out and an alarm voice is sent out by an electro-acoustic converting device when the ground wire is disconnected; and the tee pressure reducing valve is equipped with a filtration mesh for filtration of the flow in the bidet only inside. The bidet is small in volume, beautiful in appearance, safe in use, long in service life, simple and convenient in operation and unnecessary in cleaning of a shower nozzle.

Probable Assignee: LIU MINGHUI

Earliest Publication Date: 20140219



22) Family number: 12473899 (DE19529137A1)

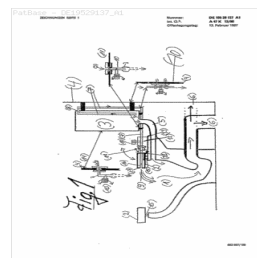
GESAESSWASCHBRILLE MIT INTREGRIERTER FRISCHWASSERDUESE UND VORRICHTUNGEN ALS

NACHRUESTSATZ FUER DIE GENITALWAESCHE IM WC-BEREICH GENITALS WASHING SEAT WITH INTEGRATED FRESH WATER JET AND OUTLET - HAS OUTLETS, FLAP UP LID, RAISED RIM, PIPE GUIDE AND INLETS

Abstract: Source: DE19529137A1 (Claim1) Dadurch gekennzeichnet, dass eine einteilige, mehrteilige, klappbare, oder loesbare WC-, Bidetbrille unterschiedlicher Vorrichtungen, wahlweise mit Deckelvarianten oder dergleichen als unterschiedliche Kombinationen zu einer Gesaesswaschbrille (2), einer Gesaesswaschbrillenvorrichtung (2) ausgebildet sind, desweiteren dadurch gekennzeichnet, dass auf einem WC, Bidet gefuehrte Auslaufvorrichtungen (9) (12) und eine klappbare, loesbare Deckelvorrichtung, mit/ohne Steck-Anschlussvorrichtung (9), mit/ohne Gesaessrandanhebungen bei (9) zu einer Gesaesswaschbrillenvorrichtung ausgebildet sind. The seat can be in one or more parts, can flap up or be detached and serve as a toilet or bidet. The toilet or bidet has outlets (9,12) and a flap-up, detachable lid arrangement with or without a plug-in connection (9) and with or without a raised rim. The pipe guide (7) element (12) with the toilet (1) consists of a one piece or multiple piece basic body. The pipe guide can be fixed to the toilet or bidet and to the genitals-washing seat. The water outlet for cold or warm water is connected to a water tank or water inlet. The washing seat consists of a flexible pipe connection (11).

Probable Assignee: JAEHNKE KLAUS PETER

Earliest Publication Date: 19970213



23) Family number: 48355853 (IN223174B)

A MACHINE FOR MAKING AND DISPENSING TEA

Abstract: Source: IN223174B A machine for making and dispensing tea Application No. 603 MAS 02 A machine for making and dispensing tea comprising a microcontroller, a tea hopper for storing tea dust; means for feeding a predetermined quantity of tea dust on activation by the microcontroller, from the hopper into a filter tray; a shower disposed above the filter tray; a tea decoction storage vessel into which a predetermined quantity of water is drawn from a first source through first valve means on activation by the microcontroller, second valve means for letting in steam from a second source; a pump activated by the microcontroller, circulating the steam heated liquid from the vessel into the shower and thence into the filter tray; a lid provided for the top of the vessel the lid having a drain hole opening into the vessel, a third self replenishing source.

Probable Assignee: LLM APPLIANCES LTD

Earliest Publication Date: 20081121

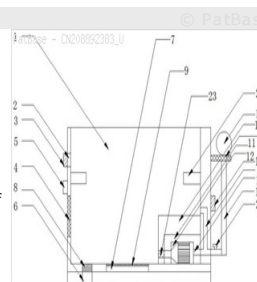
24) Family number: 74479096 (CN208892383U)

THE INVENTION DISCLOSES A CHILD WASHING BASIN FOR MEDICAL CARE

Abstract: Source: CN208892383U The utility model discloses a child cleaning basin for medical care. The flowerpot comprises a pot body, a water inlet is fixedly formed in the inner side of the basin body; a first clamping plug is correspondingly arranged on the outer side of the pot body; a heater is fixedly embedded into the inner side of the basin body; a heating adjusting switch is fixedly mounted on the outer side of the basin body; the warmer is electrically connected with the warming adjusting switch; a water outlet and a traditional Chinese medicine groove are fixedly formed in the bottom of the basin body; a second clamping plug is correspondingly arranged at the top of the water outlet; a filter plate is correspondingly arranged at the top of the traditional Chinese medicine tank; Traditional Chinese medicine tank, the medicated bath effect can be achieved; The shower head is simple in structure, convenient to clean, disinfect and treat, capable of making waves in the basin body through cooperation of the U-shaped pipe and the water pump, beneficial to dissolution and balanced distribution of traditional Chinese medicine and rich in child interest, the manual switch valve can manually adjust the water flow direction, the effect of adjusting the flow of the shower head can be achieved, and through the design of the supporting block and the seat block, a child can lean more comfortably.

Probable Assignee: WANG JINYU

Earliest Publication Date: 20190524



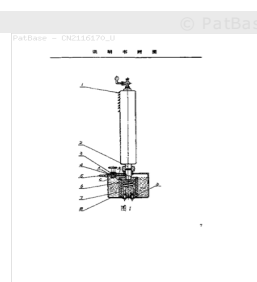
25) Family number: 17144069 (CN2116170U)

DOMESTIC MOVABLE ELECTRIC WARMER WITH FUNCTION OF SHOWERING

Abstract: Source: CN2116170U The utility model provides a domestic movable electric warmer with a showering function, which relates to a domestic automatic temperature controlled electric heater which can both be used for heating in winter and be used as a shower. The utility model is mainly composed of a water box body, a high temperature chamber, a heat radiator, a temperature-controlling switch, an indicating lamp, a proportion manual valve, a water inlet nozzle, a water outlet plug valve, a water level temperature display panel and a drain stopper. The utility model integrates an electric heater and an electric shower, the two function efficiencies are correspondingly independent without mutual interference, the two functions can be simultaneously used or individually used, and the utility model has flexible design and convenient movement. Owing to the proportion manual valve, the water heater can form a double heating method so as to reduce energy consumption, and the utility model has the advantages of simple manufacturing process, low cost and convenient generalization.

Probable Assignee: ZHANG NIANDONG

Earliest Publication Date: 19920916



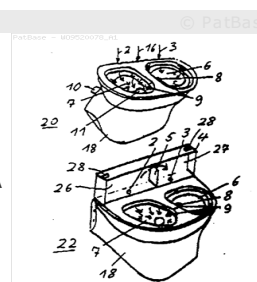
26) Family number: 17990516 (WO9520078A1)

COMBINED WC-BIDET

Abstract: The invention relates to a combined WC and bidet (20) with a one-piece basic body (18) in which a WC (7) and a bidet (6) are fitted side by side or one behind the other. These pan components can be separated by a side-wall fresh/waste water connecting device and adjustable for height as desired from the combined WC-bidet or as a whole therewith. According to its construction and necessary and useful modifications, faecal drainage and water inlets and drains, the combined WC-bidet is suitable for rail or air transport and for private or industrial use. A bidet adjustable for height or a bidet of a WC-bidet combination may have one or more fixed, articulated water-hot-air closure devices and an additional flushing device in the pan region.

Probable Assignee: JAEHNKE KLAUS PETER

Earliest Publication Date: 19940818

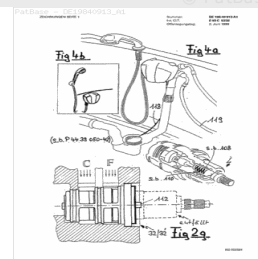


COMBINED BATH INFLOW, OUTFLOW AND OVERFLOW THERMOSTAT FITTING

Abstract: Source: DE19840913A1 The thermostat fitting integrated in the outflow head (16), consists of two removable subassemblies, a thermostat control member to one side of the overflow hole and a subassembly (80) with three hydraulic plug and socket connections. This subassembly contains ceramic washers (84), an insert (85, 86) for mixed water (60), an on/off and flow rate adjustment, and a bath/shower changeover switch, all in a common housing.

Probable Assignee: DESCH KURT MICHAEL

Earliest Publication Date: 19990602

**CAMARA LABIRINTICA POSTICA DE ENTRADA PARA APARELHOS ELETRICOS DE AQUECIMENTO INSTANTANEO DE AGUA**

Abstract: Source: BRPI0500337C Trata este certificado de adicao de uma camara labirintica postica inserida em um aquecedor, torneira ou chuveiro eletrico, viabilizando o uso de disjuntor diferencial (DR) no ponto de utilizacao da rede eletrica predial onde o aparelho esta conectado. A novidade consiste de uma camara labirintica postica interna, conectada a entrada de agua da carcaca (1) de um aparelho, sendo interligada a projecao interna (10) que se comunica-se com o orificio (11) do tubete de entrada de agua, dita projecao encaixando-se no furo de entrada (12) na parede superior da dita camara, a qual e formada por dois elementos confrontantes (13) e (14) acoplados, apresentando uma passagem interna (15) que forma um labirinto, com o elemento externo (13) possuindo uma curvatura de raio pouco inferior ao raio da parede (3) da carcaca (1), ficando disposto paralelamente a esta parede, dita camara labirintica exibindo ainda uma abertura inferior (18) que comunica sua passagem interna (15) com a camara de aquecimento (2). A parede superior da projecao (6) exhibe um furo passante atravessado por um segmento de fio condutor (19) que se estende ao longo da projecao (6) e por todo o comprimento da passagem (15), o trecho deste condutor posicionado apos a abertura (16) tendo um par de dobras a 90<198> (20) e (21), sucedidas por um segmento vertical (22), seguindo-se um par de dobras sucedido por um trecho terminal descendente (23) posicionado axialmente ao longo do tubo-sifao, estando o extremo inferior (24) deste condutor desprovida de sua capa isolante, tal como seu extremo oposto (25) na parte externa do aparelho, o mesmo se dando com um pequeno trecho (26) deste condutor (19), disposto junto a cavidade (11) do tubete de entrada (4). Esta camara labirintica pode ser adaptada a carcaca (1a) de um aparelho convencional, equipado com um captador (27) de corrente de fuga na cavidade (11) do tubete (4) cuja cavidade interna recebe uma conexao (29) cujo lado oposto conecta-se a um cotovelo (30) que tem seu tramo inferior encaixado no furo superior (12) da camara labirintica, a conexao (29) e o cotovelo (30) sendo fixados por adesivo ou simples interferencia mecanica.

Probable Assignee: PETRONGARI ANTONIO GILDO

Earliest Publication Date: 20051004

