

Search history

Search 1: TAC=(water W2 save#) (Results 13782)

Search 2: 1 AND (FT = toilet OR tank OR cistern) (Results 5272)

Search 3: 2 AND (FT = bag OR pouch*) (Results 110)

Search 4: 3 AND (FT = hydrophil*) (Results 0)

Search 5: FT = (bag OR pouch*) AND hydrophil* (Results 6275)

Search 6: 5 AND (FT = (liquid OR water) W5 store#) (Results 481)

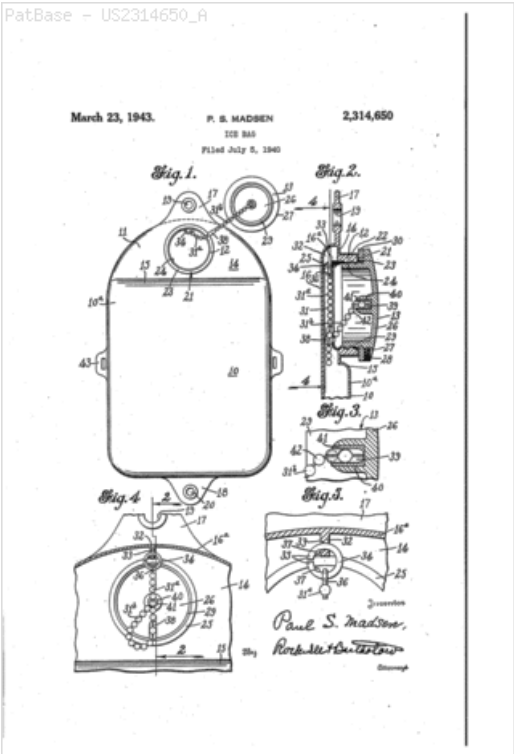
Search 7: 6 AND (FT = toilet OR tank OR cistern) (Results 39)

Search 8: PA=(niagara conservation corp) (Results 29)

Search 9: fn=(34433568 or 12297463 or 30085299 or 43112388 or 46417737 or 48306549 or 21205368 or 21869660 or 1133185 or 4377168) (Results 10)

Title: ICE BAG

Classifications:
International (IPC 8-9): A61F7/10 (Advanced/Invention);
A61F7/00 (Core/Invention)
International (IPC 1-7): A61F7/10
CPC: A61F7/103 Y10S383/901
European: A61F7/10B
US: 383/66 383/80 383/901



Family:

Publication number	Publication date	Application number	Application date
US2314650 A	19430323	US19400344042	19400705

Priority:

US19400344042 19400705

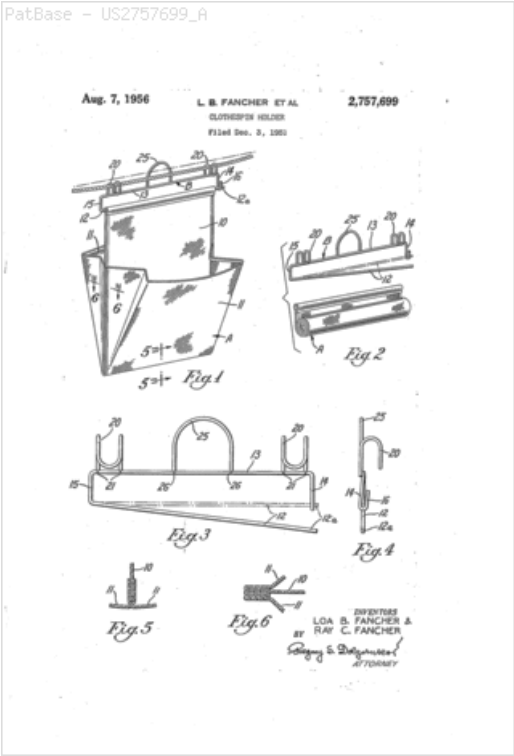
Probable Assignee: SEAMLESS RUBBER CO
Assignee(s): (std) SEAMLESS RUBBER CO
Assignee(s): THE SEAMLESS RUBBER COMPANY
Inventor(s): (std) MADSEN PAUL S

Title: CLOTHESPIN HOLDER

Abstract: Source: US2757699A (Claim 1) I claim: In a clothespin holder, a rectangular frame made of steel wire, said frame comprising two spaced vertical members and two horizontal members connecting the same to forin a unitary structure, said frame being separable at one of its lower comers to release one end of the lower horizontal member for receiving and taking off a bag, both of said horizontal members beingcontinuous and straight; two member3 of the inverted U 6,5 shape made as separate pieces_ with the closed end of each of said last members being bent upon itself to form a hook adapted to eagw aclothesline at two points, thus providing four points of contact between the holder and a clothesline, the ends of the legs of the U of each of said two members being spaced apart and rikidly secured to the upper horizontal mcmber of the frame at the extremities thereof; and a wire member of an inverted.

Classifications:

International (IPC 8-9): D06F53/00 (Advanced/Invention);
D06F53/00 (Core/Invention)
CPC: D06F53/005
European: D06F53/00B
US: 383/12 383/13 383/16 383/23 383/38



Family:

Publication number	Publication date	Application number	Application date
US2757699 A	19560807	US19510259616	19511203

Priority:

US19510259616 19511203

Probable Assignee:

FANCHER LOA B

Assignee(s): (std):

FANCHER LOA B ; FANCHER RAY C

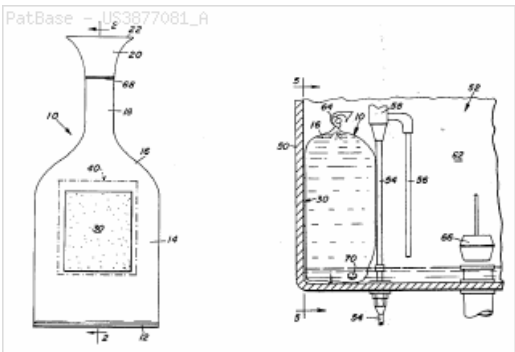
Inventor(s): (std):

FANCHER LOA B ; FANCHER RAY C

Title: Water saving device for water closet

Abstract: Source: US3877081A A means for reducing substantially the amount of water used during the flushing operation of a water closet comprising a flexible container mounted within the flush tank and holding a quantity of water. The container is so located within the flush tank as not to interfere with its operation, while at the same time serving to displace a quantity of the water in the tank, thereby reducing the water flow during the flushing action and effecting a substantial economy in the use of water. The container may be a flexible plastic bag shaped to facilitate filling and sealing, and carrying adhesive means for securing the bag to the side of the flush tank.

Classifications:
International (IPC 8-9): E03D1/14 (Advanced/Invention);
E03D1/02 (Core/Invention)
International (IPC 1-7): A47K17/00
CPC: E03D1/14
European: E03D1/14
US: 4/227.1 4/415
Locarno class: 4 / 1



Family:

Publication number	Publication date	Application number	Application date
US3877081 A	19750415	US19720258416	19720531

Priority:
US19720258416 19720531

Probable Assignee: KLEIN WALTER A
Assignee(s): (std): KLEIN WALTER A
Inventor(s): (std): KLEIN WALTER A

Title: Toilet bowl sanitizer dispenser

Abstract: Source: US4451941A A sanitizer dosing dispenser for immersion in a body of water such as a toilet tank whose water line can be lowered from an upper level to a lower level by flushing, which includes a product chamber for containing a solid, water soluble material, first and second walls defining a first flow path therebetween for providing a predetermined volume of water from the body of water to the product chamber along the first flow path in response to the level of the body of water falling from the upper level to the lower level. The first wall is flexible and located so that hydrostatic pressure from the body of water presses the first wall against the second wall to close the first flow path against water flow therealong when the level of the body of water is above the first wall, and permits the predetermined volume of water to flow into the product chamber to dissolve a portion of the soluble material therein when the level of the body of water is below the first wall. The dispenser also includes structure for dispensing substantially the same predetermined volume of solution from the product chamber along a second flow path into the body of water when the body of water falls from the upper level to the lower level. The dispenser includes a water chamber in fluid communication with the exterior of the dispenser for holding the predetermined volume of water above the first flow path when the body of water is at the upper level. When the first flow path opens, the predetermined volume of water falls therealong by gravity into the product chamber.

Classifications:

International (IPC 8-9): E03D9/02 E03D9/03 (Advanced/Invention)

International (IPC 1-7): E03D9/02

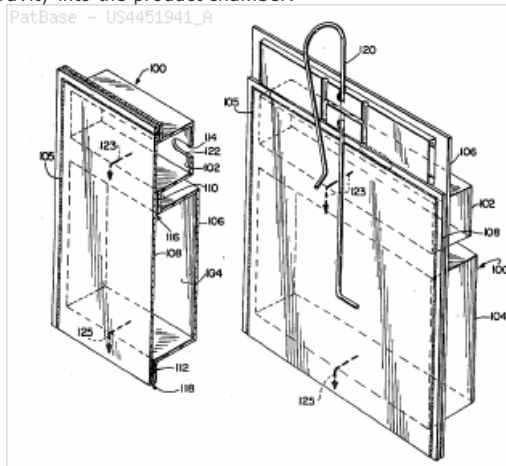
CPC: E03D9/038 E03D2009/024

European: E03D9/02B E03D9/03D6 P03D9/02M

US: 134/36 4/227.4

Locarno class: 42/28

PatBase - US4451941_R



Family:

Publication number	Publication date	Application number	Application date
US4451941 A	19840605	US19830486238	19830418

Priority:

US19830486238 19830418

Probable Assignee: RECKITT BENCKISER INC

Assignee(s): (std): STERLING DRUG INC

Assignee(s): STERLING DRUG INC A CORP OF DE ; RECKITT AND COLMAN INC ; RECKITT BENCKISER INC

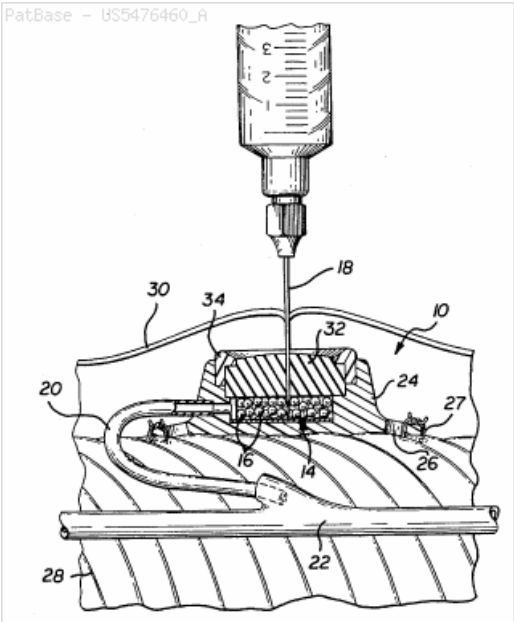
Inventor(s): (std): GRAY JAMES R

Title: IMPLANTABLE INFUSION PORT WITH REDUCED INTERNAL VOLUME

Abstract: Source: US5476460A An implantable infusion port is provided to facilitate delivery of medication to a patient, wherein the infusion port has a substantially reduced internal volume to minimize the quantity of residual medication therein. The infusion port comprises a cup-shaped housing with a self-sealing septum mounted thereon to define an internal chamber for receiving medication infused through the patient's skin and the septum via a hypodermic needle or the like. A catheter mounted on the housing communicates with the internal chamber to deliver the medication to a selected site within the patient. A substantial portion of the chamber volume is occupied by inert beads which minimize the open volume of the chamber and thereby maximize medication delivery to the patient.

Classifications:

International (IPC 8-9): A61M39/02 (Advanced/Invention);
A61M39/02 (Core/Invention)
International (IPC 1-7): A61M5/14
CPC: Y10S128/12 A61M39/0208
European: A61M39/02B
US: 128/DIG.12 604/288.02 604/8 604/891.1 604/93



Family:

Publication number	Publication date	Application number	Application date
US5476460 A	19951219	US19940235463	19940429

Priority:

US19940235463 19940429

Probable Assignee: MEDTRONIC MINIMED INC

Assignee(s): (std): MINIMED INC

Assignee(s): MEDTRONIC MINIMED INC ; ING US CAPITAL LLC COLLATERAL AS ; MINIMED INC A DELAWARE CORP ; MINIMED TECHNOLOGIES LTD ; ING (US) CAPITAL LLC COLLATERAL AS ; ING CAPITAL LLC AS COLLATERAL

Inventor(s): (std): MONTALVO RUDOLPH A

Title: Water displacement device

Abstract: Source: US6243886B A water displacement device for water storage vessels such as toilet tanks, the device comprising a perforated plastics bag including a super-absorbent polymer in granular form which, when wetted, expands to up to two hundred times its pre-absorption volume. The bag may be weighted and may be placed in a toilet tank where it expands to displace between two and five litres of water within a toilet tank otherwise containing at least nine litres of water, thereby reducing wasteful water consumption.

Classifications:

International (IPC 8-9): B29C45/14 E03D1/14 E03D3/12 E03D9/00 H04R31/00 (Advanced/Invention); E03D1/02 (Core/Invention)

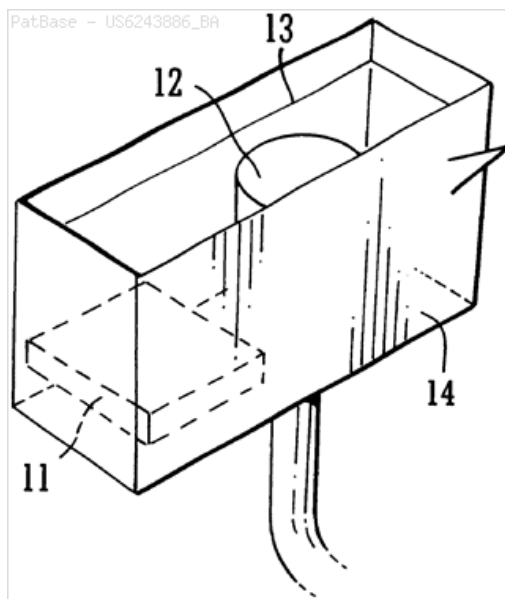
International (IPC 1-7): B29C45/14 B29C45/22 E03D1/00 E03D3/12 E03D9/00 H04R31/00 H04R7/18 H04R7/20

CPC: E03D1/14 B29C45/14336 B29C45/14467 B29L2031/3418 H04R7/12 H04R31/003 H04R31/006 H04R2231/001 H04R2231/003

European: B29C45/14F B29C45/14G E03D1/14 H04R31/00B H04R7/12 L29L31/34D T04R231/001 T04R231/003 T04R31/00F

US: 4/415

Locarno class: 44/15



Family:

Publication number	Publication date	Application number	Application date
CA2272724 AA	20001125	CA19992272724	19990525
CA2272724 C	20051129	CA19992272724	19990525
GB2319788 A1	19980603	GB19970021848	19971016
GB2319788 B2	20010411	GB19970021848	19971016
GB2327902 A1	19990210	GB19980025782	19971014
GB2327902 B2	20000112	GB19980025782	19971014
GB2327903 A1	19990210	GB19980025783	19971014
GB2327903 B2	20000112	GB19980025783	19971014
GB2328177 A1	19990217	GB19970021644	19971014
GB2328177 B2	20000112	GB19970021644	19971014
GB9621644 A0	19961211	GB19960021644	19961017
GB9621848 A0	19961211	GB19960021848	19961021
GB9721644 A0	19971210	GB19970021644	19971014
GB9721848 A0	19971217	GB19970021848	19971016
GB9825782 A0	19990120	GB19980025782	19971014
GB9825783 A0	19990120	GB19980025783	19971014
US6243886 BA	20010612	US19990248610	19990211

Priority:

CA19992272724 19990525	GB19960021644 19961017	GB19960021848 19961021
GB19970021644 19971014	GB19980025782 19971014	GB19970021644 19971014
GB19980025783 19971014		

Probable Assignee: DRY PLANET LTD

Assignee(s): (std): AHMED HABIB ; AHMED HABIE ; CARMODY MICHAEL ; HULMES PETER A ; KERWIN COLIN J ; KERWIN COLIN JOHN ; KMA ; KMA U K LTD ; KURT MUELLER ; KURT MUELLER UK LIMITED

Assignee(s): KURT MUELLER UK LTD ; KMA U K LIMITED ; KMA UK LTD ; KMA LTD ; COLIN JOHN KERWIN ; DRY PLANET LTD ; HABIB AHMED

Inventor(s): (std): KERWIN COLIN JOHN ; CAMERON JOHN

Inventor(s): COLIN JOHN KERWIN ; JOHN CAMERON

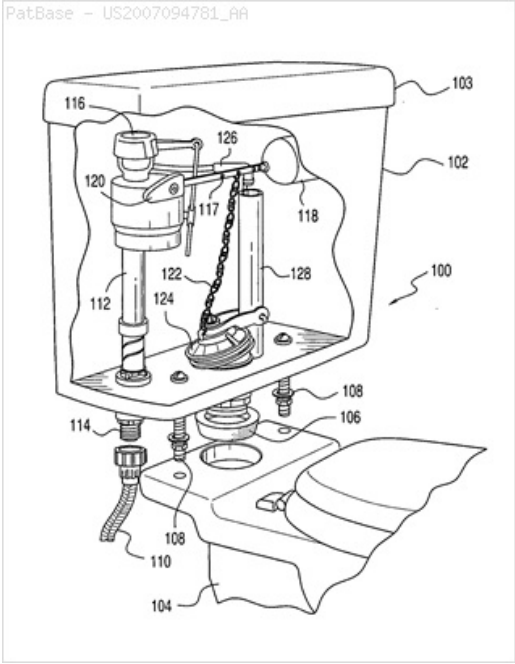
Agent(s): BORDEN LADNER GERVAIS LLP

Title: WATER DISPLACEMENT DEVICE FOR TOILET TANKS

Abstract: Source: US2007094781A A water displacement device for a toilet tank provides a hollow container that is configured and arranged to hold liquid therein. The container has a fill spout for entry of the liquid and a fill cap to secure the liquid therein. The liquid may be water or a combination of water and a disinfectant. The container defines a first aperture that is configured and arranged to be received around an overflow tube in a toilet tank and a first indentation that is configured and arranged to be received about a fill valve of a toilet tank. The container further defines a second indentation that is configured and arranged to permit clearance for a connecting member between a lever control arm in a toilet tank and the valve seat. The position of the first aperture is optionally disposed to the right or left of a center point of the second indentation. When the device is filled with liquid, the device maintains buoyant repose within the toilet tank while maintaining downward pressure onto the top surface of water within the toilet tank. A pair of feet are optionally disposed about the bottom of the container to avoid contact with the bottom of the toilet tank and thereby permit free operation of a valve seat within the toilet tank.

Classifications:

International (IPC 8-9): E03D1/00 (Advanced/Invention);
E03D1/00 (Core/Invention)
CPC: E03D1/14
European: E03D1/14
US: 4/415



Family:

Publication number	Publication date	Application number	Application date
US2007094781 AA	20070503	US20050261718	20051031

Priority:

US20050261718 20051031

Probable Assignee:

GADOMSKI JAMES

Assignee(s): (std):

GADOMSKI JAMES

Inventor(s): (std):

GADOMSKI JAMES

Agent(s):

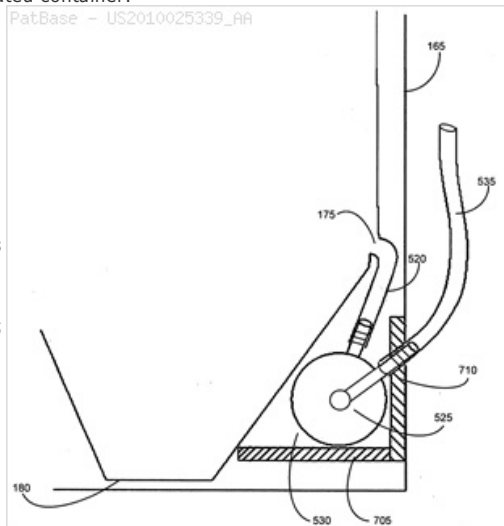
KRAMER AND AMADO PC

Title: FIELD WATER PURIFICATION SYSTEM

Abstract: Source: US2010025339A A lightweight water treatment system which can be easily distributed and employed by disaster survivors for treating locally available freshwater sources. The water treatment system includes an internal storage volume for maintaining a predetermined volume of water, a water fill port in communication with the internal storage volume provided at a first end of the elongated container for receiving the predetermined volume of water, a sealing member disposed at about the first end of the elongated container for maintaining the volume of water within the internal storage volume, a second end of the elongated container for receiving sediment settling out of the predetermined volume of water and a discharge port disposed superjacent to the second conically-shaped end for controllably releasing at least a portion of the water maintained within the internal storage volume of the elongated container.

Classifications:

International (IPC 8-9): A47J36/08 B01D21/26 B01D24/00 B01D24/38 B01D27/00 B01D29/03 B01D29/60 B01D29/88 B01D33/70 B01D35/00 B01D35/02 B01D35/14 B01D35/28 B01D43/00 B67D7/84 C02F1/00 C02F1/50 C02F1/52 C02F9/00 (Advanced/Invention); A45F3/16 B01D21/00 B01D21/18 B01D24/48 B01D33/58 C02F1/28 C02F1/32 C02F1/52 C02F1/68 C02F1/72 (Advanced/Non-invention); C02F1/00 C02F1/50 C02F1/52 (Core/Invention)
CPC: C02F1/001 A45F3/16 C02F1/5281 C02F2307/02 C02F1/283 C02F1/32 C02F1/72 C02F2209/11 C02F2303/04 B01D29/03 C02F1/325 C02F1/002 A47J36/08 C02F1/44 C02F1/52 C02F2201/008 C02F2307/00
European: C02F1/00D2 M02F1/00D M02F1/28D M02F1/32 M02F1/52 M02F1/72 M02F209/11 M02F303/04
US: 210/206 210/206S 210/207 210/251 210/257.1 210/287 210/305 210/407 210/435 210/445 210/466 210/470 210/501 210/533 210/536 210/639 210/723 210/738 210/749 210/764 210/780 210/804 210/94 222/175

**Family:**

Publication number	Publication date	Application number	Application date
US2010025339 AA	20100204	US20090418598	20090405
US2013048555 AA	20130228	US20120652929	20121016
US2015014247 AA	20150115	US20140503075	20140930
US7514006 BA	20090407	US20080111130	20080428
US8287729 BB	20121016	US20090418598	20090405
US8887924 BB	20141118	US20120652929	20121016

Priority:

US20080111130 20080428 US20090418598 20090405 US20120652929 20121016
 US20140503075 20140930 US20100418598 20100204

Probable Assignee: CAL POLY CORP

Assignee(s): (std): CAL POLY CORP ; CALIFORNIA POLYTECHNIC CORP ; CALPOLY CORP ; COMPAS MARKMAN PATRICIA M ; COMPAS PATRICIA M ; LUNDQUIST TRYGRVE J

Inventor(s): (std): LUNDQUIST TRYGVE J ; LUNDQUIST TRYGRVE J ; COMPAS PATRICIA M ; COMPAS MARKMAN PATRICIA M

Agent(s): LAW OFFICE OF PHILIP A STEINER; STEINER ESQ PHILIP A; PHILIP A; MARTINE PENILLA GROUP LLP

Title: FLUID DISPLACEMENT DEVICE

Abstract: Source: US2013198945A A fluid displacement device (2) comprises a flexible plastics container (4). The container (4) is formed from a single sheet of PET/PE which is folded over to create a pocket, and heat sealed along the seams 8a,b,c formed by the edge of the sheet. The container (4) is substantially rectangular in shape, and measures approximately 130 mm by 200 mm. The container is placed in a toilet cistern and suspended above a bottom part thereof. Water flows into the flexible container (4) from the cistern (20) through the holes (6) and comes into contact with the water-swellable polymer. The water-swellable polymer absorbs the water and swells to approximately (400) times its original weight to displace approximately 500 ml water from the cistern (20).

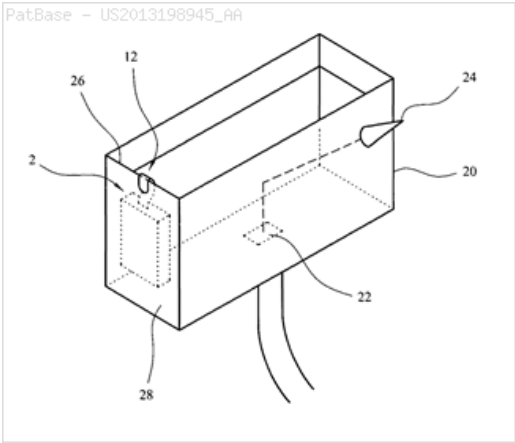
Classifications:

International (IPC 8-9): E03D1/14 F16M13/02 (Advanced/Invention); E03D (Subclass/Invention)

CPC: E03D1/14 F16M13/02 Y10T29/49826

European: E03D1/14

US: 248/213.2 29/428 4/415



Family:

Publication number	Publication date	Application number	Application date
EP2572051 A1	20130327	EP20110725185	20110523
GB201008482 A0	20100707	GB20100008482	20100521
US2013198945 AA	20130808	US20110699432	20110523
WO11144945 A1	20111124	WO2011GB50961	20110523
ZA201305427 A	20140925	ZA20130005427	20130718

Priority:

GB20100008482 20100521 WO2011GB50961 20110523

Probable Assignee: DRY PLANET LTD

Assignee(s): (std): DRY PLANET LTD ; MCGOWAN NIGEL

Assignee(s): DRY PLANET LIMITED

Inventor(s): (std): MCGOWAN NIGEL

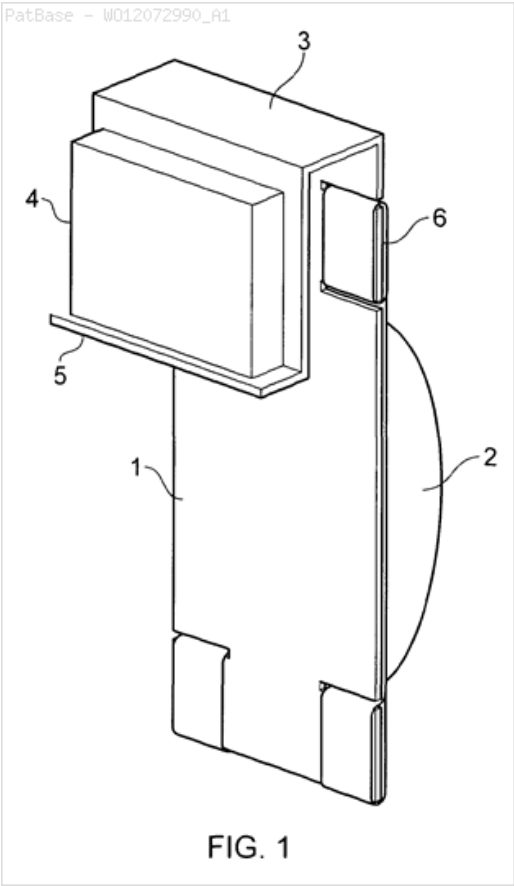
Agent(s): WADDINGTON RICHARD; APPLEYARD LEES

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 RO RS RU 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: IMPROVEMENTS IN LIQUID DISPLACEMENT DEVICES

Abstract: A liquid displacement device for a toilet cistern, comprises one or more containers adapted to displace a liquid within a toilet cistern; a hook for suspension of the containers within the toilet cistern, the containers being attached to a first end of the hook; wherein a second end of the hook comprises a novelty device for engaging a user, suspended outside the cistern. Optionally active alerts may be provided, for example for producing an audible alarm. In an alternative embodiment a display indicates the total amount of water saved.

Classifications:
International (IPC 8-9): E21D1/14 (Advanced/Invention)
CPC: E03D1/12 E03D1/14
European: E03D1/12 E03D1/14



Family:

Publication number	Publication date	Application number	Application date
GB201020481 A0	20110119	GB20100020481	20101203
WO12072990 A1	20120607	WO2011GB01681	20111205

Priority:

GB20100020481 20101203

Probable Assignee: ROBERTSON TIM

Assignee(s): (std): ROBERTSON TIM

Inventor(s): (std): ROBERTSON TIM

Agent(s): WALKER NEVILLE

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 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