

1) Family number: 52134345 (US2012260418 AA)

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Title: LAVATORY SYSTEM WITH OVERFLOW PREVENTION AND OTHER FEATURES

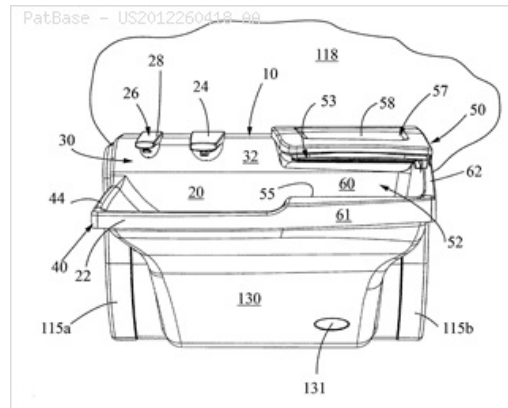
Abstract: Systems and methods for a lavatory system are described that include a bidirectional hand dryer having a top, bottom, back, and right side and multiple sensors and LEDs. Upper and lower nozzles are also provided and respectively connected to upper and lower plenums. At least two flexible air delivery hoses are connected to the plenums. A motor housing is provided and includes a motor, ports connected to the hoses, noise abatement features, and a motor microcontroller. A hand-receiving cavity exists between the top, back, right, and bottom side for receiving at least one hand of a user. Tips are connected to the nozzles and emit high speed colliding columns of air to shear water off of the user's hand. The columns of air are spaced and calibrated in such a way as to reduce forces on the user's hand which would otherwise move the hand toward the side surfaces.

Classifications:

International (IPC 8-9): A45D20/00 A47K1/00 A47K10/48 A47K4/00 A47K5/06 A47K5/12 A61L2/10 A61L2/14 A61L2/232 A61L2/24 A61L9/16 E03C1/01 E03C1/02 E03C1/05 E03C1/18 E03C1/181 E3C1/05 F26B1/00 F26B21/06 F26B21/12 F26B25/06 F26B3/00 F26B3/04

CPC: A47K10/48 A47K2210/00 E03C1/057 A47K4/00 F26B21/12 A47K5/12 A61L2/10 A61L2/14 A61L2/232 A61L2/24 A61L2202/14 A61L2209/111 A61L2209/14 A61L9/16 E03C1/181 E03C1/01 A47K2005/1218 A47K5/1217 E03C1/05 E03C1/18 F26B25/06 F26B3/00

US: 1/1 34/202 34/443 34/487 34/572 34/82 4/623 4/638



Family:

Publication number	Publication date	Application number	Application date
CA2833536 AA	20131017	CA20122833536	20120404
CA2833536 C	20200107	CA20122833536	20120404
CA2851266 AA	20140404	CA20122851266	20121004
CA2851266 C	20191029	CA20122851266	20121004
CA2873015 AA	20140919	CA20132873015	20130314
CA2873015 C	20181113	CA20132873015	20130314
DE602012028803 D1	20170330	DE201260028803T	20121004
DE602013039437 D1	20180726	DE201360039437T	20130314
EP2699736 A2	20140226	EP20120774488	20120404
EP2699736 A4	20140827	EP20120774488	20120404
EP2699736 B1	20200603	EP20120774488	20120404
EP2764168 A2	20140813	EP20120838986	20121004
EP2764168 A4	20150715	EP20120838986	20121004
EP2764168 B1	20170215	EP20120838986	20121004
EP2828440 A1	20150128	EP20130763914	20130314
EP2828440 A4	20150715	EP20130763914	20130314
EP2828440 B1	20180627	EP20130763914	20130314
ES2682022 T3	20180918	ES20130763914T	20130314
GC6043 A	20170813	GC2012P021055	20120417
GC9895 A	20190304	GC2012P022468	20121006
MX2013012137 A1	20140915	MX20130012137	20120404
MX349555 B	20170803	MX20130012137	20120404
MX2014004068 A1	20140912	MX20140004068	20121004
MX353599 B	20180119	MX20140004068	20121004
MX2014011247 A1	20151123	MX20140011247	20130314
MX352853 B	20171213	MX20140011247	20130314
US2012260418 AA	20121018	US20110088793	20110418
US2013086741 AA	20130411	US20110267429	20111006
US9267736 BB	20160223	US20110267429	20111006
US2014230269 AA	20140821	US20120350321	20121004
US9441885 BB	20160913	US20120350321	20121004
US2015052678 AA	20150226	US20130386401	20130314
US9758953 BB	20170912	US20130386401	20130314
US10172498 BB	20190108	US20150967285	20151212
US2016198909 AA	20160714	US20150967285	20151212
US10294642 BB	20190521	US20170650266	20170714
US2018030701 AA	20180201	US20170650266	20170714
WO12145171 A2	20121026	WO2012US32105	20120404
WO12145171 A3	20140227	WO2012US32105	20120404
WO13052616 A2	20130411	WO2012US58678	20121004
WO13052616 A3	20140515	WO2012US58678	20121004
WO13142224 A1	20130926	WO2013US31171	20130314

Priority:

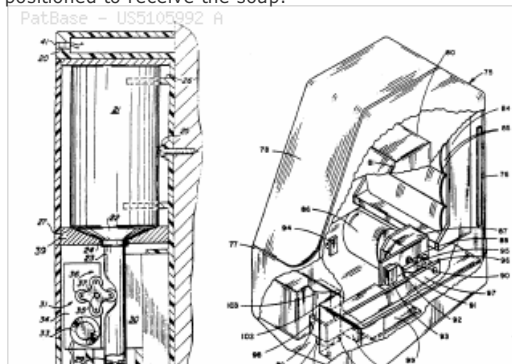
US20110088793	20110418	US20110088512	20110418	US20110267429	20111006
US20120613821P	20120321	WO2012US32105	20120404	US20120620541P	20120405
WO2012US58678	20121004	EP20120838986	20121004	US20120350321	20121004
WO2013US31171	20130314	EP20130763914	20130314	US20130386401	20130314
US20150967285	20151212	US20170650266	20170714		

Probable Assignee: BRADLEY FIXTURES CORP**Assignee(s):** (std): BAYLEY GRAEME S ; BIBA SCOTT I ; BOUDREAU CORY R ; BRADLEY FIXTURES CORP ; BRADLEY IP LLC ; BTADLEY IP LLC ; DHEIN THEODORE E ; DOMMISSE JON A ; FIGURSKI MARK A ; KLINE KEVIN B ; KOHLWEY KEVIN M ; KREITZER KENNETH A ; LOBERGER JOHN M ; RENNER JASON M ; RUNDBERG MICHELLE L**Assignee(s):** BRADLEY FIXTURES CORP MENOMONEE FALLS ; BRADLEY FIXTURES CORPORATION ; BRADLEY FIXTURES CORPW142 N9101 FOUNTAIN BOULEVARDMENOMONEE FALLSWI53051-2348US ; MCCALLUM TERRY LEE**Inventor(s):** (std): BAYLEY GRAEME ; BAYLEY GRAEME S ; BIBA SCOTT I ; BOUDREAU CORY R ; DHEIN THEODORE E ; DOMMISSE JON ; DOMMISSE JON A ; FIGURSKI MARK ; FIGURSKI MARK A ; KLINE KEVIN B ; KOHLWEY KEVIN M ; KREITZER KENNETH ; KREITZER KENNETH A ; LOBERGER JOHN M ; MCCALLUM TERRY LEE ; RENNER JASON ; RENNER JASON M ; RUNDBERG MICHELLE L**Inventor(s):** 10 SCOTT I BIBA ; 11 CORY R BOUDREAU ; BAYLEY GRAEME S BROOKFIELD ; BAYLEY GRAEME SUS ; DOMMISSE JON A WEST BEND ; DOMMISSE JON AUS ; FIGURSKI MARK A HARTLAND ; FIGURSKI MARK AUS ; GRAEME S BAYLEY ; JASON M RENNER ; JOHN M LOBERGER ; KENNETH A KREITZER ; KEVIN B KLINE ; KEVIN M KOHLWEY ; KREITZER KENNETH A GERMANTOWN ; KREITZER KENNETH AUS ; MARK A FIGURSKI ; MCCALLUM TERRY LEEUS ; MICHELLE L RUNDBERG ; RENNER JASON M GREENFIELD ; RENNER JASON MUS ; THEODORE E DHEIN**Agent(s):** AIRD AND MCBURNEY LP; BARKER BRETTELL LLP; BOYLE FREDRICKSON SC; DEHMEL AND BETTENHAUSEN PATENTANWALTE PARTMBB; GOSNALL TOBY; GRATZ MICHAEL J; KADASA LAW FIRM; LINAGE RAFAEL; MARKS AND CLERK; PATENTANWALTE CANZLER AND BERGMEIER PARTNERSCHAFT MBB; SIM AND MCBURNEY**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**2) Family number: 4992386 (US5105992 A)**

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Title: SOAPDISPENSER HAVING A SQUEEZE PUMP

Abstract: A soap dispenser apparatus has a housing having a space formed in the housing for holding a soap container of a predetermined shape. The soap container has its own dispenser hose and nozzle formed therein and the dispenser hose fits through a squeeze pump and becomes part of the pump pumping the soap from the container. An electric motor has a gear box for gearing the motor down located in the housing and positioned to actuate a squeeze member to squeeze the dispenser hose against a pressure plate made of a self lubricating polymer. A sensor, such as an infrared sensor, senses a person's hand in line with the output of the soap container and dispenser nozzle and is coupled through a circuit to the electric motor to actuate the squeeze pump to pump the soap onto a person's hand positioned to receive the soap.

Classifications:**International (IPC 8-9):** A47K5/00 A47K5/12**International (IPC 1-7):** B67D37/00 B67D5/06**CPC:** A47K5/1215 A47K5/1217**US:** 222/181.2 222/185 222/214 222/325 222/333 222/52 251/7417/412**Family:**

Publication number	Publication date	Application number	Application date
US5105992 A	19920421	US19880261122	19881024

Priority:

US19880217711 19880705 US19880261122 19881024

Probable Assignee: FENDER FRANKLIN D**Assignee(s):** (std): FENDER FRANKLIN D ; GIBSON FRED**Inventor(s):** (std): FENDER FRANKLIN D ; GIBSON FRED**3) Family number: 3308205 (WO9012530 A1)**

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Title: SOAP DISPENSER

Abstract: A soap dispenser apparatus (10, 50, 75) has a housing (13, 62, 77) having a space formed in the housing for holding a soap container (21, 56, 80) of a predetermined shape. The soap container (21, 56, 80) has its own dispenser hose (23, 82) and nozzle (28, 60, 83) formed therein and the dispenser hose (23, 82) fits through a squeeze pump and becomes part of the pump pumping the soap from the container. An electric motor (33, 86) has a gear box (34, 63, 87) for gearing the motor down located in the housing (13, 62, 77) and positioned to actuate a squeeze member to squeeze the dispenser hose (23, 82) against a pressure plate (30, 61, 102) made of a self lubricating polymer. A sensor (38, 66, 94), such as an infrared sensor, senses a person's hand in line with the output of the soap container (21, 56, 80) and dispenser nozzle (28, 60, 83).

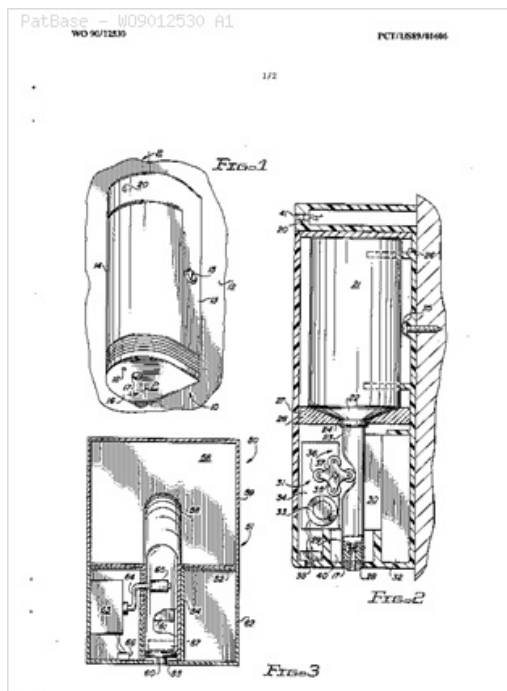
and is coupled through a circuit to the electric motor (33, 86) to actuate the squeeze pump to pump the soap onto a person's hand positioned to receive the soap.

Classifications:

International (IPC 8-9): A47K5/00 A47K5/12

International (IPC 1-7): A47K5/12

CPC: A47K5/1215 A47K5/1217



Family:

Publication number	Publication date	Application number	Application date
AU198938528 A1	19901116	AU19890038528	19890417
WO9012530 A1	19901101	WO1989US01606	19890417

Priority:

WO1989US01606 19890417 AU19890038528 19890417

Probable Assignee: FENDER FRANKLIN D

Assignee(s): (std): FENDER FRANKLIN D ; FRANKLIN D FENDER ; GIBSON FREDERICK D

Inventor(s): (std): FENDER FRANKLIN D ; GIBSON FREDERICK D

Inventor(s): FRANKLIN D FENDER ; FREDERICK D GIBSON

Designated states: AT AU BR CH DE DK FR GB JP KP NL NO SE

4) Family number: 30921555 (US6012613 A)

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Title: Extruding mechanism for auto dispenser

Abstract: An improved extruding mechanism for auto soap dispenser which comprises, a soap dispenser equipped with an under outlet, a sleeve positioned underneath the dispenser, an output port locating at the bottom of the sleeve, and there is a valve seat which is installed inside the sleeve and therein sliding up and down, more particularly the valve seat consists of a disk block which includes several circulated holes and a mandrel, therefrom the mandrel on the top of valve seat is inserted with a spring and moreover the mandrel at the bottom of valve seat is equipped with a diaphragm; and there is a side tube positioned on the flank of sleeve and thereon connected to an extruding hose, and a link that pivoted at external end of the extruding hose is also pivoted by a motor driven eccentric wheel at its opposite end; according to the structure described above, the elastically reciprocating motion on the extruding hose which caused by motor driven eccentric wheel will put the squeeze on valve seat and then have it slid up and down and thus result in a corresponding motion to extrude the liquid soap out of the dispenser accordingly, by way of having an enclosed extruding hose so that the liquid soap is prevented from contacting air and so as not to dry out quickly, in addition it will force the diaphragm to cover closely onto the circulated holes locating in the valve seat and meanwhile the diaphragm would be able to be pressed down by spring force and hence to impact onto the outlet port that positioned on the sleeve and in this way preventing the liquid soap from leaking.

Classifications:

International (IPC 8-9): A47K5/00 A47K5/12

International (IPC 1-7): A47K5/12 G01F11/00

CPC: A47K5/1208

US: 222/180 222/182 222/207 222/214 222/309 222/333 222/380 222/476

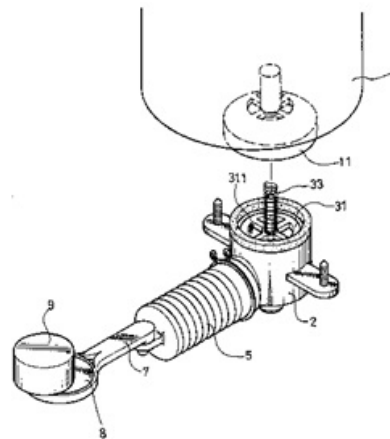


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
DE29818058 U1	19990218	DE19982018058U	19981009
US6012613 A	20000111	US19980159589	19980924

Priority:

US19980159589 19980924 DE19982018058U 19981009

Probable Assignee: CHEN YI CHEN

Assignee(s): (std): CHEN YI CHEN

Assignee(s): CHEN YI CHEN TAIPEH T AI PEI TW

Inventor(s): (std): CHEN YI CHEN

5) Family number: 31531892 (TW527905 Y)

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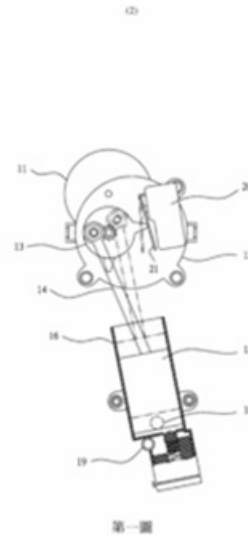
Title: Soap liquid supply mechanism for automatic soap supply device

Abstract: Source: TW527905 Y **Machine translation:** One kind has contained a planet installment and a delivery hose the soap machine soap lye of supplies train of mechanism for, in which planet installment is automatically establishes several drums on a card, and enables this drum on this card the rotation; This card is the establishment base of in the shell, has an axis intelligence, but the above delivery hose is assumes the arc shape to inlay sets in the shell nearby outside the reason and the drum between the surface; As soon as actuates axle center of the motor is passed through the card and shell one side and with various drums surface phase contact joint, takes advantage of this revolving impetus drum rotation and the card rotation the use motor axle center, thus the affiliation drum pushes in the delivery hose the soap lye, causes it to lose from the stationary tank to the use end.

Classifications:

International (IPC 8-9): A47K5/00 A47K5/12

International (IPC 1-7): A47K5/12

**Family:**

Publication number	Publication date	Application number	Application date
TW527905 Y	20030411	TW20010217816U	20011018

Priority:

TW19900217816 20011018

Probable Assignee: SOLOMON SENSOR TECH CORP**Assignee(s):** (std): SOLOMON SENSOR TECH CORP**Inventor(s):** (std): CHEN CHING LUNG**6) Family number: 23344824** (TW401808 Y)

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Title: Sensor-type lotion supply device

Abstract: Source: TW401808 Y **Machine translation:** One kind of induction-type emulsion supplies installment, department embody Rong Zhi the equipment, a load bearing place, an induction installment, a supplies installment constitute at least, in which this Rong base of Zhi the equipment has a hole and the company is equipped with a hose; This load bearing place is supposes Yu Rongzhi underneath the equipment, its interior may supply exactly to induce the equipment and the supplies installment group supposes, also its surface has one may supply to provide clothing softly sets at hollow, the hollow bottom surface start has a perforation, its characteristic lies in: This supplies installment, is supposes in the load bearing place, also an embody motor, a localization board, an eccentric, an impetus board constitute, in which this motor department supposes firmly one side of in the localization board, also passes through its axle center the localization board to suppose the slot to protrude in advance in the localization board another one side suitable distance; Axle center of peak department in order wrap this motor is equipped with an eccentric and an impetus board, makes this eccentric to be possible to receive the motor axle center to actuate the revolution, and leads the impetus board to have the displacement, for the time being perforates the glide to promote extrudes the hose, but emulsion extrusion.

Classifications:**International (IPC 8-9):** A47K5/00 A47K5/12**International (IPC 1-7):** A47K5/12**Family:**

Publication number	Publication date	Application number	Application date
TW401808 Y	20000811	TW19990211974U	19990716

Priority:

TW19880211974 19990716

TW19990211974U 19990716

Probable Assignee: SHIAU GUEI CHIUAN**Assignee(s):** (std): SHIAU GUEI CHIUAN**Inventor(s):** (std): SHIAU GUEI CHIUAN**7) Family number: 6849642** (US4104744 A)

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Title: Washing device

Abstract: A portable washing device comprising a sealable fluid chamber filled with liquid to a given level. An air pump increases the air pressure above the liquid and at a preselected value forces the liquid through a check valve, hose and spray head for washing. A safety relief valve in the chamber prevents the air pressure from exceeding a predetermined

value.

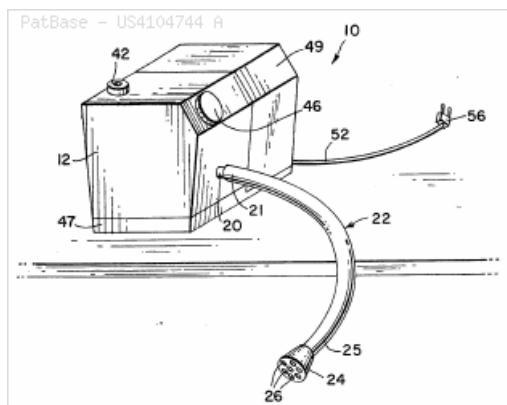
Classifications:

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International (IPC 1-7): A45D19/00

CPC: A45F3/00 A47K5/1217

US: 239/373 239/571 4/159 4/616



Family:

Publication number	Publication date	Application number	Application date
US4104744 A	19780808	US19770763410	19770215

Priority:

US19770763410 19770215

Probable Assignee: ODENCRANTZ CLYDE

Assignee(s): (std): ODENCRANTZ CLYDE

Inventor(s): (std): ODENCRANTZ CLYDE

8) Family number: 12120780 (US6036056 A)

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Title: Automatic soap dispensing device

Abstract: An automatic soap dispensing device, particularly a device which can be activated by photoelectric or infrared sensor via a control circuit, i.e., a motor reducing gear set in a drive device driving a drive wheel with a considerable torque at low speed so that an eccentric wheel on the drive wheel can push a squeezer set which in turn squeeze a soap hose to dispense liquid soap accordingly; and a micro switch is touched when the drive wheel is rotated to a certain angle to stop the motor, upon which the squeezer set returns its initial position by the inherent elasticity of the hose without any need to engage any gear with the reducing gear set and possibility of seizure between gears which may adversely affect operation of the soap dispensing device.

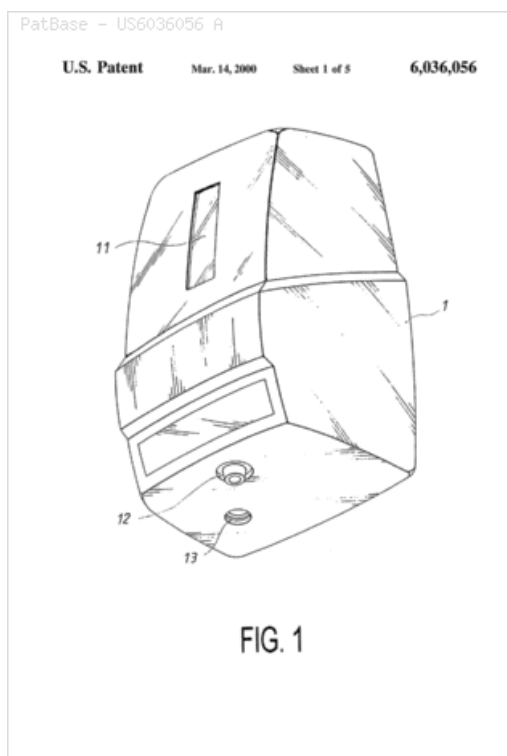
Classifications:

International (IPC 8-9): A47K5/00 A47K5/12

International (IPC 1-7): B67D5/06

CPC: A47K5/1209 A47K5/1217

US: 222/105 222/181.3 222/207 222/325 222/333 222/63



Family:

Publication number	Publication date	Application number	Application date
US6036056 A	20000314	US19970851453	19970505

Priority:

US19970851453 19970505

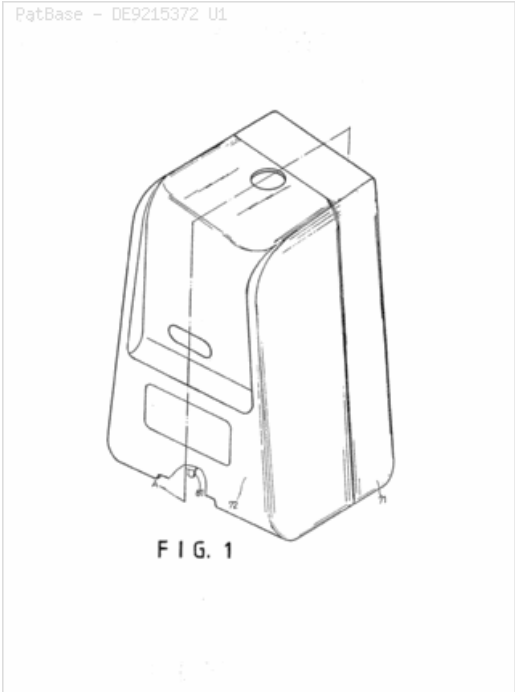
Probable Assignee: HWANG TSANG CHANG

Assignee(s): HWANG TSANG CHANG ; LEE KUO CHOU

Inventor(s): (std): HWANG TSANG CHANG ; LEE KUO CHOU

Abstract: Source: DE9215372 U1 **Machine translation:** (Claim 1) 1 Automatic soap dispenser, comprising: a housing (71,72), a motor (1) which is mounted within the housing, a reduction gear (2), the input gear to the output shaft of the motor is connected, one arch (31), the with the output gear of the reducer (2) and pivotally connected to the compound rod (32) is connected, one-armed toggle lever (4), at one end pivotally connected to the connecting rod (32) and at the other end secured to the plate (5) is connected, a soap box (8), which is the case (71,72) arranged and a flexible hose (81) with an internal valve which, that between the elastic member (73) and the pressure plate (5) arranged is, a circuit board that is electrically connected to the engine and is equipped with an infrared detector (61) is provided, and batteries (9), which are connected electrically to the circuit board.

Classifications:
International (IPC 8-9): A47K5/00 A47K5/12
International (IPC 1-7): A47K5/12
CPC: A47K5/1209 A47K5/1215 A47K5/1217



Family:

Publication number	Publication date	Application number	Application date
DE9215372 U1	19930225	DE19920015372U	19921111

Priority:
DE19920015372U 19921111
Probable Assignee: LIN MOSES BOHUI TAIPEH T AI PEI TW
Assignee(s): LIN MOSES BOHUI TAIPEH T AI PEI TW

Title: Improved structure of automatic soap dispenser

Abstract: Source: TWM275813 Y **Machine translation:** This creation is one kind automatically the soap machine improvement structure for, it is by gives in the soap within the aircraft drive, supposes as soon as the motor and the gear cluster, the conduction make the drive wheel, the use make on the drive wheel the eccentric, has the eccentric action, its characteristic is this eccentric sleeve joint continually moving parts, the affiliation continually moving parts impetus clamp, when the clamp extrusion for the soap hose, this clamp holds back the flange and the back board holds back the surface, will give the soap hose upside extrusion to form the seal in advance, again will stick out using the clamp the tune cambered surface and the back board hollow tune cambered surface design, might give the soap hose to receive gradually by the upper extreme downward extrusion gathers,Forms one reduces effort to extrude the effect smoothly extremely.

Classifications:
International (IPC 8-9): A47K5/00 A47K5/12
International (IPC 1-7): A47K5/12



Family:

Publication number	Publication date	Application number	Application date
TWM275813 Y	20050921	TW20050207559U	20050511

Priority:

TW20050207559U 20050511

Probable Assignee:

LIN BO HUEI

Assignee(s): (std):

LIN BO HUEI

Inventor(s): (std):

LIN BO HUEI

11) Family number: 33338709 (WO06092748 A2)

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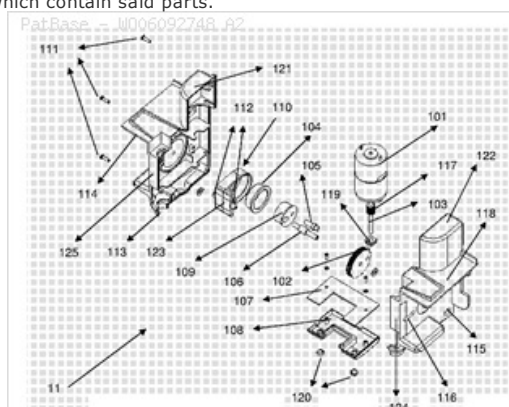
Title: LIQUID SOAP DISPENSER PUMP

Abstract: A pump (11) which ensures liquid soap to be trickled by being used preferably in a liquid soap dispenser, comprising an electric motor (101), a gear (102), a worm gear (103), a press head bearing (104), a gear eccentric shaft (105), a gear main shaft (106), an electronic circuit board (107), an electronic circuit board slot (108), a press head cam (109), a press head (110), a fitting (117), a worm gear bearing (119), photocell sensors (120), and a right cover (118) and a left cover (114) connected to each other by means of screws (111) which contain said parts.

Classifications:

International (IPC 8-9): A47K5/00 A47K5/12 F04B43/00 F04B43/08

CPC: A47K5/1209 A47K5/1217



Family:

Publication number	Publication date	Application number	Application date
WO06092748 A2	20060908	WO20061B50538	20060220
WO06092748 A3	20061102	WO20061B50538	20060220
WO06092748 B1	20061130	WO20061B50538	20060220

Priority:

TR20050000699 20050301

Probable Assignee:

Assignee(s): (std): ECZACIBASI YAPI GERECLERI SANA ; ER OSMAN

Assignee(s): ECZACIBASI YAPI GERECLERI SANAYI VE TICARET A S

Inventor(s): (std): ER OSMAN

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

12) Family number: 31966113 (TWM251572 Y)

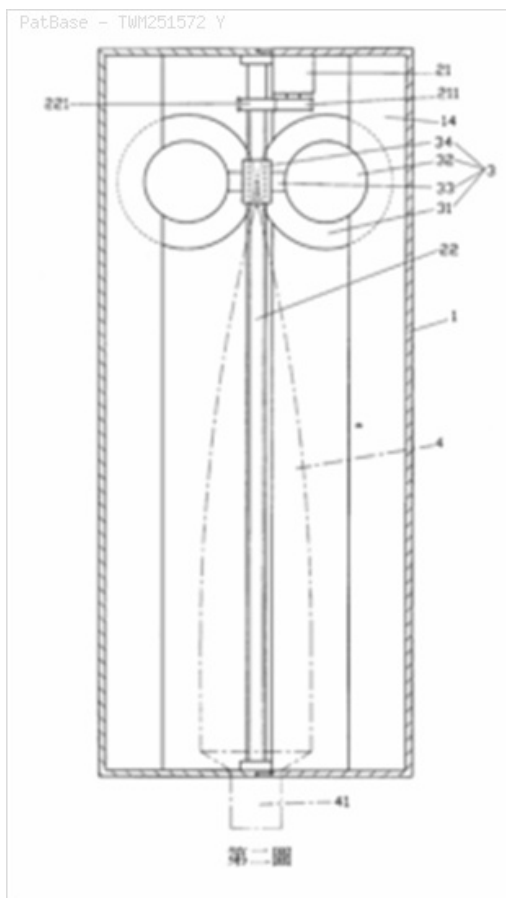
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Title: Toothpaste squeezing device with toothbrush rack

Abstract: Source: TWM251572 Y **Machine translation:** This creation is pushes the toothpaste about one kind of tooth brush-rocker, it including the outer covering, the actuation unit, pushes the pressure roller group, among, in the outer covering is corresponds the start to squeeze out Kong Jizhi the toothbrush hole, so as to also establishes in above starts Niu the control actuation unit about, reaches to relatively inside on is equipped with guide rail of separately the corresponding; The actuation unit including the motor group and the screw rod, out-port of the this motor group is supposes has the runner, because of runner and screw rod bridle-joint transmission; Pushes the pressure roller group is including two juxtaposes the wheel group and the pulley, about this turn group the end is equipped with the pulley, and supposes in two pulleys between has set of places; The affiliation causes to push wrap of seat cover the pressure roller group to suppose screw rod of in on the actuation unit, again will actuate the unit and pushes the pressure roller group in to put in together the outer covering, will turn pulley of the group to inlay suitably supposes in the guide rail, will give suitably along divides and hyphenates a word at the end of a line along the guide rail way; The affiliation causes in the toothpaste hose to put in the outer covering, but extends by its terminal puts in pushes the pressure roller group, but the toothbrush extends puts in sets at in the toothbrush hole to push by its toothbrush appearance regarding the toothpaste hose exports the base.

Classifications:

International (IPC 8-9): A47K5/00 A47K5/18 B65D5/00
International (IPC 1-7): A47K5/18 B65D5/00



Family:

Publication number	Publication date	Application number	Application date
TW251572 Y	19950711	TW19940217171U	19941130
TWM251572 Y	20041201	TW20040201332U	20040130

Priority:

TW20040201332U 20040130

Probable Assignee: FAR EAST COLLEGE

Assignee(s): (std): FAR EAST COLLEGE

Inventor(s): CHEN YU GANG ; TSAI TUNG LIN ; YANG JING YU

13) Family number: 33300815 (DE202006007035 U1)

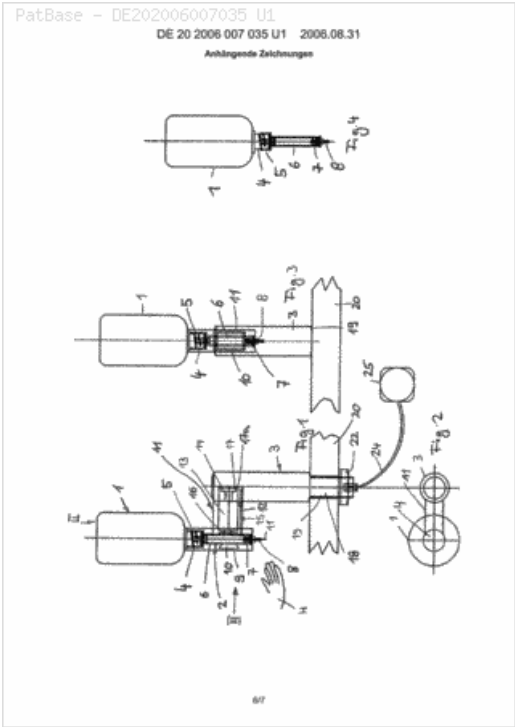
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Title: DISPENSER FOR LIQUID SOAP OR DISINFECTANT HAS A NON CONTACT CONTROLLED PUMP WITH ALTERNATING VALVES TO DISPENSE PRESET AMOUNTS

Abstract: A dispenser for liquid soap and/or viscous disinfectant has a pump (2) controlled by a proximity switch. The reservoir (1) is connected to the dispensing jet (11) via two valves (5, 7) operated alternately to dispense a set amount of fluid as defined by the space between the valves. The reservoir and dispenser are set above the working surface.

Classifications:

International (ipc 8-9): A45D34/00 A47K5/00 A47K5/12 B65D83/00 F04B9/00 F04B9/14
CPC: A47K5/1208 F04B13/00



Family:

Publication number	Publication date	Application number	Application date
 DE202006007035 U1	20060727	DE200620007035U	20060420

Priority:

DE200620007035U 20060420

Probable Assignee:

BAISCH KARL GMBH

Assignee(s): (std):

BAISCH KARL GMBH

Assignee(s):

KARL BAISCH GMBH

14) Family number: 14992257 (JP9295700 A2)

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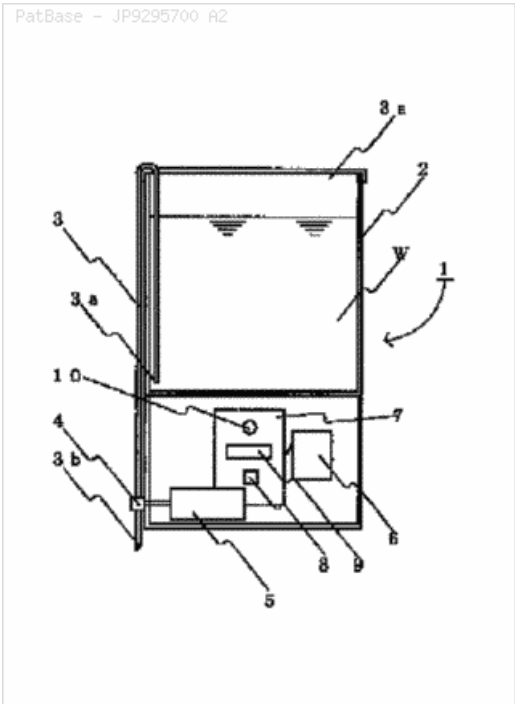
Title: AUTOMATIC SOLUTION POURING DEVICE

Abstract: PROBLEM TO BE SOLVED: To automatically pour a certain amount of solution and automatically mix a certain amount of solution with water just before using it by providing a pouring pump near a pouring part of a pouring pipe provided in a storage tank and providing a switch and a timer in a power source circuit. SOLUTION: A suction part 3a for pouring nearly the whole of solution W such as detergent, shampoo, rinse etc., in a storage tank 2 is provided near the inner bottom of the tank 2 and a pouring part 3b of a pouring pipe 3 such as hose or pipe extending over the circumferential wall of the tank 2 from within the tank is provided at a low level outside the tank. A small pouring vane pump 4 provided near the part 3b of the pipe 3 is connected to a rotation shaft of a small motor 5 provided in a pouring device 1, and a switch 8 and a timer 9 are provided in a power source circuit 7. Thus by driving the pump 4 by operating the switch 8, a certain amount of solution W can be poured from the part 3b by means of the timer 9.

Classifications:

International (ipc 8-9): A47K5/00 A47K5/12 B01F15/02 B01F3/08 B65H75/38 B67D7/74 E03C1/04 E03C1/046 F04D13/00 F04D13/06 F04D13/16

International (ipc 1-7): A47K5/12 B01F15/02 B01F3/08 B65H75/38 B67D5/56 E03C1/046 F04D13/06 F04D13/16



Family:

Publication number	Publication date	Application number	Application date
JP9295700 A2	19971118	JP19960134199	19960502

Priority:

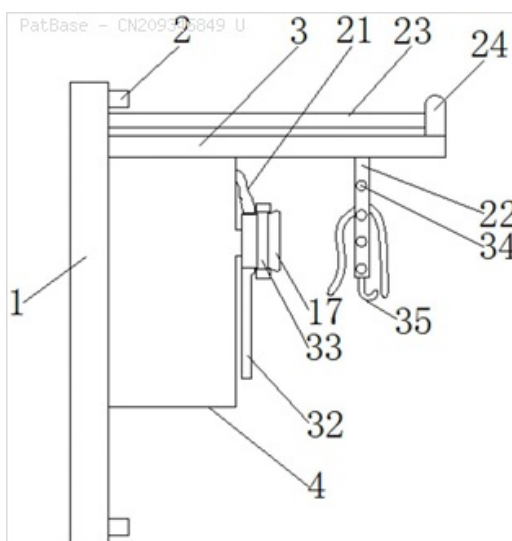
JP19960134199 19960502

Probable Assignee: YAMASHITA MOTOJI**Assignee(s):** (std): YAMASHITA MOTOJI**Inventor(s):** (std): YAMASHITA MOTOJI**15) Family number: 75759708** (CN209346849 U)

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Title: MULTIFUNCTIONAL BATHROOM TOWEL RACK

Abstract: The utility model discloses a multifunctional bathroom towel rack which comprises a first fixing plate, the top and the bottom of the left side of the first fixing plate are fixed to a wall through bolts, a glass plate is fixedly connected to the right side of the first fixing plate, and a transmission box is fixedly connected to the left side of the bottom of the glass plate. The first fixing plate, the bolt, the glass plate, the transmission box, the motor, the eccentric wheel, the first fixing block, the first bearing, the first transmission rod, the second bearing, the idler wheel, the third bearing, the second transmission rod, the fourth bearing, the fixing rod, the second fixing block, the air blowing head, the movable column, the draught fan, the heating box, the hose, the fixing frame, the first opening and the reset spring are used cooperatively. The problem that the towel is easy to stink and harden due to the fact that the towel is kept in a wet state throughout the year and a toilet is moist and bacteria and viruses are easy to breed is solved, the towel is convenient for a user to use, and the service life of the towel is prolonged.

Classifications:**International (IPC 8-9):** A47K10/06 A47K10/10 A47K5/00 A61L2/10**Family:**

Publication number	Publication date	Application number	Application date
CN209346849 U	20190906	CN201821201246U	20180727

Priority:

CN201821201246U 20180727

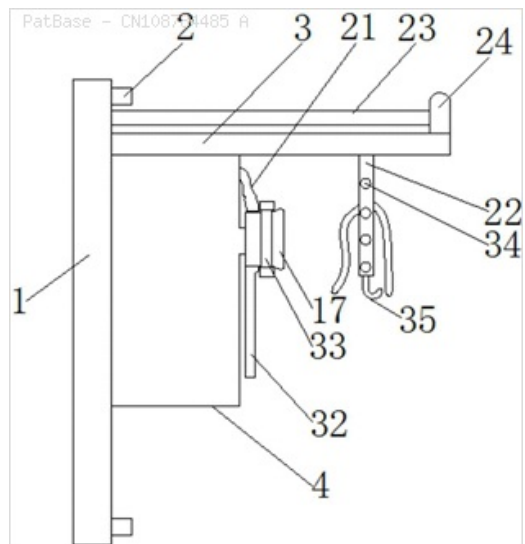
Probable Assignee: WU SENSE PAGING**Assignee(s):** (std): WU YIXUN**Assignee(s):** WU SENSE PAGING**Inventor(s):** (std): WU YIXUN**16) Family number: 71857074** (CN108784485 A)

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Title: MULTIFUNCTIONAL TOWEL RACK FOR BATHROOM

Abstract: The invention discloses a multifunctional towel rack for a bathroom. The multifunctional towel rack comprises a first fixed plate, the top and the bottom of the first fixed plate are fixed to a wall through bolts, a glass plate is fixedly connected to the right side of the first fixed plate, and a drive box is fixedly connected to the left side of the bottom of the glass plate. The first fixed plate, the bolts, the glass plate, the drive box, a motor, an eccentric wheel, a first fixed block, a first bearing, a first drive rod, a second bearing, an idler wheel, a third bearing, a second drive rod, a fourth bearing, a fixed rod, a second fixed block, an air blowing head, a movable pillar, a fan, a heating tank, a hose, fixed frames, a first opening and a returning spring are used in cooperation, it is avoided that bacteria and viruses are prone to breeding under the conditions that towels are kept wet all the year, and the bathroom is also wet, and as a result the towels are prone to becoming stink and hardened, and the multifunctional towel rack for the bathroom is convenient to use for a user and prolongs the service life of the towels.

Classifications:**International (IPC 8-9):** A47K10/06 A47K10/10 A47K5/00 A61L2/10**CPC:** A47K10/06 A47K10/10 A47K5/00 A61L2/10 A61L2202/26



Family:

Publication number	Publication date	Application number	Application date
CN108784485 A	20181113	CN201810840665	20180727

Priority:

CN201810840665 20180727

Probable Assignee:

WU YIXUN

Assignee(s): (std):

WU YIXUN

Assignee(s):

WU SENSE PAGING

Inventor(s): (std):

WU YIXUN