

Search query (19): [SP]: 1. a system for conserving water while a user waits for hot water in a shower, the system comprising: a water retention space coupled to water line, the water line for delivery of water to a shower head a diverter configured to divert water intended to flow through the shower head to the water retention space a return line configured to deliver the diverted water back to the shower head after the diverted water is mixed with water from the water line. 2. the system of claim 1 further comprising a switch for engaging the diverter. 3. the system of claim 2 further comprising a second switch for disengaging the diverter. 4. the system of claim 3 further comprising a sensor for sensing the amount of water in the water retention space. 5. the system of claim 4 further comprising a sensor for sensing the temperature of the water in the water line. 6. the system of claim 5 further comprising a water additive container coupled to water line for delivery of additives to the shower water. 7. the system of claim 1 further comprising an entertainment device. 8. the system of claim 7 wherein the entertainment device is a radio, cd player, dvd player or video screen. 9. the system of claim 8 further comprising a mirror. 10. the system of claim 1 further comprising a generator coupled to the water line to generate electricity. 11. the system of claim 1 further comprising an indicator to indicate to a use that the shower is ready for use. 12. a system for conserving water while a user waits for hot water at a shower, bath tub and/or sink. the system comprising of: the system of claim 1, wherein the system is configured to retrofit an existing shower by insertion of the system between the hot water heater and the shower head. 13. the system of claim 12, wherein the water retention space is configured to retain at least the amount of cold water held in the hot water line between a hot water source and the shower head, plus enough hot water to warm the system. 14. the system of claim 13 wherein the water retention space comprises a closed or vented bladder. 15. the system of claim 13 wherein the water retention space coil closed or vented. 16. that in the system there is an in-line water softener.

Results: 13

1) Family number: 49092703 (US2011139269 AA)

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Title: WATER RETENTION AND RECYCLING SYSTEM

Priority: US20090280849P 20091110 US20100455237P 20101018 US20100942960 20101109

Family:

Publication number	Publication date	Application number	Application date
US2011139269 AA	20110616	US20100942960	20101109

Probable Assignee: ROGERS SPENCER DEAN

Assignee(s):(std): ROGERS SPENCER DEAN

Inventor(s):(std): ROGERS SPENCER DEAN

International class (IPC 8-9): F16K49/00

CPC: E03B1/048 E03B7/045 E03C1/0408 E03C1/046 Y02A20/411 Y10T137/6552

US class: 137/339

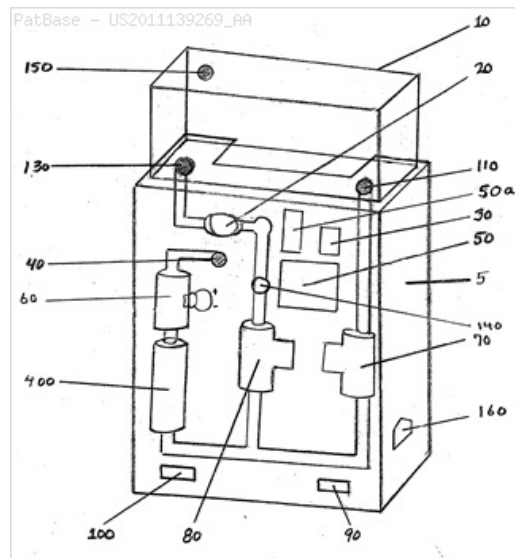
[Classification Explorer](#)

Cited documents: US7000626 BA, US6879818 BB, US6588377 BA, US6036110 A, US5823441 A, US5794643 A, US5564462 A, US5140254 A, US4854499 A, US4242201 A,

Forward Citations: US10663938 BB, US10448762 BB, US10436455 BB, US10407881 BA, WO19116332 A1, US10295197 BB, WO18178954 A3, WO19018862 A1, US2017260721 AA, US2014316586 AA, US9513641 BA, US9353955 BA, US9316403 BB, US2012097746 AA, US9176507 BB, WO13017938 A1,

Abstract:

In one embodiment a method and apparatus is provided that prevents water waste that commonly occurs while one is are waiting for hot water to arrive at a shower head or other hot water source. The embodiment saves the water that would go down the drain while waiting for the hot water to arrive from the water heating unit by capturing the cold/warm water and adding it back to the shower water.



2) Family number: 51587938 (WO13017938 A1)

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Title: INSTALLATION, DEVICE AND METHOD FOR ELIMINATING THE WASTE OF WATER WHEN THE COLD WATER FAUCET IS OPENED

Priority: PT20110105843 20110729 WO2012IB01478 20120720

Family:

Publication number	Publication date	Application number	Application date
EP2792801 A1	20141022	EP20120769703	20120720
PT105843 A	20120620	PT20110105843	20110729

PT105843 B	20130115	PT20110105843	20110729
WO13017938 A1	20130207	WO20121B01478	20120720

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Agent(s): GASTAO DA CUNHA FERREIRA LDA; LOURENCO MARTINHO DO ROSARIO ANA MARGARIDA

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

International class (IPC 8-9): E03B1/04 E03B7/04 F24D11/02 F24D17/02 F24D19/10

CPC: E03B7/045 Y02A20/411

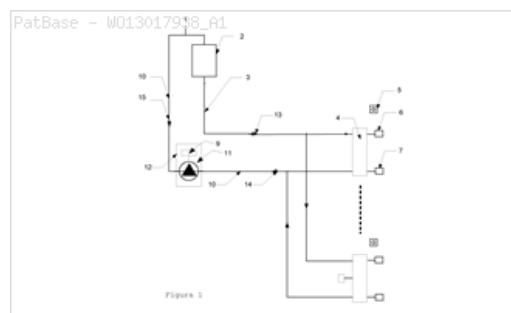
[Classification Explorer](#)

Cited documents: US2004182439 AA, DE3723089 A1, US5042524 A, US5351712 A, US2011139269 AA, US2010126604 AA, US7140382 BB, US4924536 A, US6098213 A, CA2252350 AA,

Forward Citations: EP3653941 A1, US10407881 BA, EP3241950 A4,

Abstract:

The invention relates to a water saving device to be connected to a faucet (6, 7), the main principle being the circulation of water from the hot water pipe (3) to the cold water pipe (10) until the temperature in the hot water pipe (3) reaches a preset temperature.



3) Family number: 72981335 (WO19018862 A1)

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Title: WATER SAVING SYSTEM FOR WATER DESPENSERS, E.G. SHOWERS

Priority: ZA20170004854 20170718

Family:

Publication number	Publication date	Application number	Application date
WO19018862 A1	20190124	WO2017ZA00013	20171030

Probable Assignee: KEMP DRIAAN LOU

Assignee(s):(std): KEMP DRIAAN LOU

Inventor(s):(std): KEMP DRIAAN LOU

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 DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): E03B1/04 E03C1/04 E03C1/046 E03C1/05

CPC: E03B1/048 E03B7/045 E03C1/0408 E03C1/046 E03C1/05 E03C1/055 Y02A20/411

[Classification Explorer](#)

Cited documents: US2016326729 AA, WO07140519 A1, US7490373 BA, US2012118414 AA, WO17042724 A1, WO06058392 A1, US2011139269 AA,

Forward Citations: US9949728 BB,

Abstract:

The invention concerns a water saving system (10) for water dispensers, e.g. showers, which has a container attached where water under the required temperature dispensed from the geyser is stored until the water reaches the user's required temperature being dispensed to the shower head (102) and in this way stops water waste. The invention also has a time controller and an additional controller for dispensing soap or gel together with the water. The system provides calculations concerning water consumption and water saving.

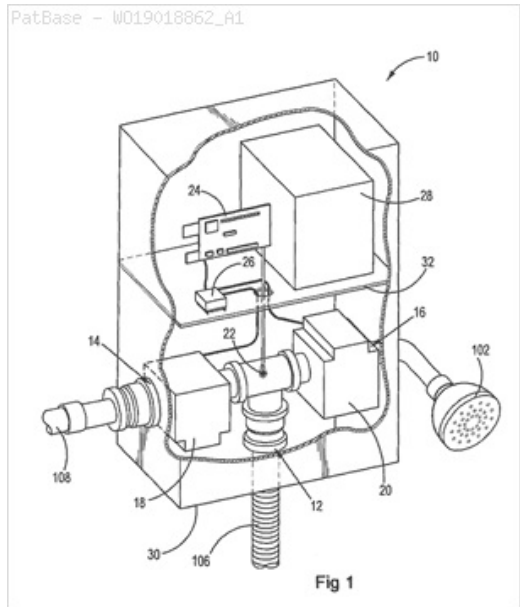


Fig 1

4) Family number: 73575428 (US2019089550 AA)

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Title: BATHROOM SPEAKER

Priority: US20170559199P 20170915
US20180126913 20180910

US20180126942 20180910
US20180126928 20180910

US20180126949 20180910

Family:

Publication number	Publication date	Application number	Application date
■ CN109634126 A	20190416	CN201811081571	20180917
■ CN110424771 A	20191108	CN201811081720	20180917
■ CN109507896 A	20190322	CN201811082808	20180917
■ CN109617936 A	20190412	CN201811082980	20180917
■ CN109613832 A	20190412	CN201811083033	20180917
■ CN109634127 A	20190416	CN201811083066	20180917
■ CN109634128 A	20190416	CN201811083224	20180917
■ CN209433203 U	20190924	CN201821521189U	20180917
■ EP3457227 A1	20190320	EP20180194376	20180914
■ EP3457228 A1	20190320	EP20180194377	20180914
■ EP3457229 A1	20190320	EP20180194378	20180914
■ IN201824034689 A	20190906	IN201824034689	20180914
■ US2019120809 AA	20190425	US20180126913	20180910
■ US2019146438 AA	20190516	US20180126928	20180910
■ US2019089550 AA	20190321	US20180126942	20180910
■ US10663938 BB	20200526	US20180126949	20180910
■ US2019090056 AA	20190321	US20180126949	20180910

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Designated states:

AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

International class (IPC 8-9):

A47K13/30 A47K17/00 C02F1/00 C02F1/50 C02F1/68 E03C1/05 E04H1/12 G01N33/18 G01N35/00 G05B15/02 G05B19/042 G05B19/418 G06F1/32 G06F1/3231 G06F1/3287 G06F3/01 G06F3/16 G10L15/18 G10L15/22 G10L15/26 G10L15/30 G10L21/0208 G10L21/06 H04L12/28 H04L29/08 H04R1/08 H04R1/40 H04R3/00 H04R3/04 H04R5/027 H04R5/04 H04R9/06 H04W12/00

CPC:

A47K13/305 A47K2010/3226 A47K2010/3668 A47K2201/00 A47K5/1217 E03C1/055 E03C1/057 E03D5/105 E03D9/002 E04H1/1266 G05B15/02 G05B2219/2642 G06F3/167 G10L15/1822 G10L15/22 G10L2015/223 G10L21/06 H04L12/2816 H04L12/282 H04R1/08 H04R9/06 A47K17/00 C02F1/001 C02F1/50 C02F1/685 C02F2209/006 C02F2209/008 C02F2307/06 G01N2035/00881 G01N2035/009 G01N33/1826 G01N35/00871 G05B19/042 G05B2219/23027 G05B2219/23462 G06F1/3231 G06F1/3287 G06F3/017 G10L21/0208 H04R1/406 H04R2227/005 H04R3/005 H04R3/04 H04R5/027 H04R5/04 Y02D10/00 Y02D30/50

US class:

1/1 700/275

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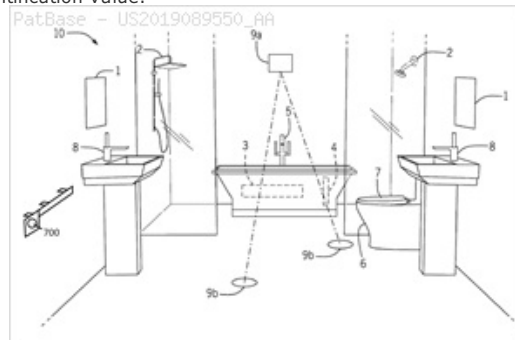
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CN203935117 U, CN203914713 U, CN203873652 U, CN203789802 U, CN203786891 U, CN104000527 A, CN103985387 A, CN103955672 A, CN203669066 U, CN103876668 A, CN103870265 A, CN103792947 A, CN103705154 A, CN203475531 U, CN203400793 U, CN103533415 A, CN103505113 A, CN203366006 U, CN203328599 U, CN102488593 B, CN203178709 U, CN203175072 U, CN203170465 U, CN203169029 U, CN203155431 U, CN203074496 U, CN203022964 U, CN202962729 U, CN103170413 A, CN202893547 U, CN202884299 U, CN202858998 U, CN103016814 A, CN103006124 A, CN202778764 U, CN202758459 U, CN202654384 U, CN102872989 A, CN102225015 B, CN202589427 U, CN202533867 U, CN202509570 U, CN202441079 U, CN101947152 B, CN3020317276 S, CN202401787 U, CN202401786 U, CN202397346 U, CN202365692 U, CN102561735 A, CN102535886 A, CN101822501 B, CN3019685127 S, CN102434710 A, CN202197903 U, CN202128568 U, CN102354184 A, CN202112981 U, CN202096129 U, CN202003182 U, CN102225015 A, CN201977666 U, CN201968563 U, CN201916568 U, CN201879594 U, CN201879593 U, CN201781110 U, CN201725194 U, CN201710242 U, CN101959449 A, CN101893967 A, CN101822501 A, CN100461109 C, CN101320439 A, CN101231582 A, CN101226603 A, CN100345085 C, CN2916783 Y, CN1954292 A, CN2717364 Y, CN2591682 Y, CN1412687 A, CN1391690 A, CN2409562 Y, US2019212976 AA, US2019146438 AA, US2019120809 AA, US2019090056 AA, US2018352356 AA, US2017199649 AA, US2017192402 AA, US2017185383 AA, US2017172462 AA, US2017165481 AA, US2017164162 AA, US2017161720 AA, US2017124770 AA, US2017115742 AA, US2017103440 AA, US2017076212 AA, US2017073070 AA, US2017050201 AA, US2017046023 AA, US2017039359 AA, US2016371977 AA, US2016350589 AA, US2016267708 AA, US2016261425 AA, US2016258144 AA, US2016253150 AA, US2016224315 AA, US2016223552 AA, US2016223551 AA, US2016223550 AA, US2016223549 AA, US2016223548 AA, US2016223519 AA, US2016223518 AA, US2016221070 AA, US2016206244 AA, US2016189281 AA, US2016170542 AA, US2016134966 AA, US2016129464 AA, US2016076909 AA, US2016076231 AA, US2016070085 AA, US2016048990 AA, US2016019868 AA, US2015312453 AA, US2015309543 AA, US2015304300 AA, US2015271557 AA,

Forward Citations: US10784679 BB, US10743101 BB, US10714115 BB, US10699711 BB, US10692518 BB, US10663938 BB, US10631661 BB, US10621981 BB, US10614807 BB, US10606555 BA, US10586540 BA, US10573321 BA, US2019216228 AA, WO19143798 A1, CN111155601 A,

A voice controlled device comprises a housing, a dock, a coupling mechanism, and a microphone. The dock is configured to connect the housing to a plurality of host appliances. The coupling mechanism is configured to receive an identification value indicative of docking between the voice controlled device and a currently connected host appliance of the plurality of host appliances. The microphone is configured to receive one or more voice inputs for the currently connected host appliance. A command is provided based on the one or more voice inputs and the identification value.



Family:	Publication number	Publication date	Application number	Application date
	US10295197 BB	20190521	US20150752612	20150626
	US2015377497 AA	20151231	US20150752612	20150626
	US2019234622 AA	20190801	US20190378987	20190409
	WO16003830 A1	20160107	WO2015US38160	20150626

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

CPC: E03B7/045 E03C2001/005 F24D17/0005 F24D17/001 F24D17/0031 F24D17/0078 F24D17/0084
F24D17/0089 F24D19/1051 F24D19/1063 F24H1/201 F24H1/202 F24H1/203 F24H9/124 F24H9/126
F28D2020/0069 Y02B30/18 Y10T137/6497 Y10T137/85954

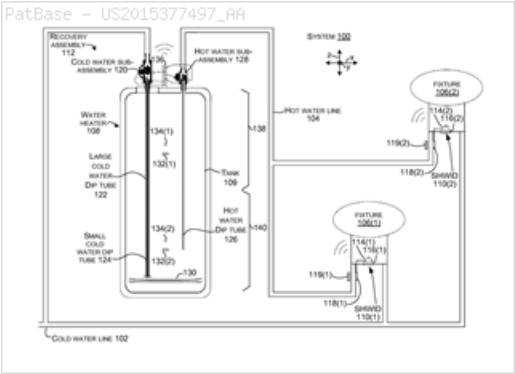
US class: 122/13.3 122/14.3 137/337

[Classification Explorer](#)

Cited documents: WO10103521 A2, JP6347095 A2, GB2145205 A1, FR2947615 A1, CN201306795 Y, US2017059186 AA, US2016003485 AA, US2013327790 AA, US2013228233 AA, US2012118414 AA, US2012097746 AA, US2011139269 AA, US2010096018 AA, US2008272116 AA, US2008230126 AA, US2008035303 AA, US2007114297 AA, US2006144455 AA, US2006022062 AA, US2005034774 AA, US2005001046 AA, US2003032854 AA, US9879658 BB, US9513641 BA, US8534310 BA, US7779857 BB, US7740182 BB, US7690395 BB, US7648078 BB, US7634976 BB, US7487923 BB, US7475703 BB, US7287707 BB, US7198059 BB, US7140382 BB, US7077155 BB, US7073528 BB, US6962162 BB, US6935357 BB, US6920844 BA, US6745723 BA, US6588377 BA, US6536464 BA, US6418969 BA, US6347748 BA, US6039067 A, US5887616 A, US5860452 A, US5829475 A, US5823177 A, US5819785 A, US5806511 A, US5799827 A, US5775372 A, US5606996 A, US5596952 A, US5586572 A, US5584316 A, US5555997 A, US5452740 A, US5385168 A, US5351712 A, US5347956 A, US5323803 A, US5277219 A, US5261443 A, US5205318 A, US5042524 A, US4945942 A, US4930551 A, US4798224 A, US4697614 A, US4682581 A, US4672990 A, US4628902 A, US4606325 A, US4518007 A, US4450829 A, US4321943 A, US4210125 A, US4181156 A, US3847307 A, US2918090 A, US2838073 A,

Forward Citations: US10712022 BB, US10436455 BB, US2018238562 AA, US10139129 BB, US2017167752 AA, US9513641 BA, US9353955 BA, US9316403 BB,

Abstract:
The concepts relate to reducing energy loss associated with hot water systems. One example can monitor hot water use in a system. Upon completion of the hot water use, the example can recover some of the hot water from hot water lines into a water heater that heated the hot water. The method can also deliver the recovered hot water to the water heater in a manner that affects operation of a heating element of the water heater.



6) Family number: 71309961 (WO19116332 A1) © PatBase

Title: WATER CONTROL SYSTEM AND INSTALLATION
Priority: ZA20170008546 20171215

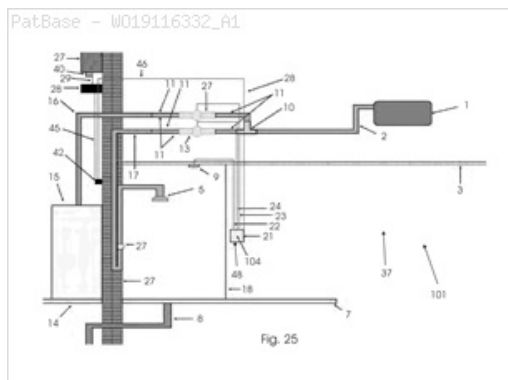
Family:	Publication number	Publication date	Application number	Application date
	WO19116332 A1	20190620	WO20181B60087	20181214
	ZA201708546 A	20180926	ZA20170008546	20171215

Probable Assignee: HEGRU TRADING CC
Assignee(s):(std): HEGRU TRADING CC
Inventor(s):(std): GRUNDLINGH HENDRIK EDUARD
Agent(s): SPOOR AND FISHER ET AL
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 DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW
International class (IPC 8-9): E03B1/04 E03B7/04 E03C1/02 E03C1/04 F15C F15D G05D
CPC: E03B1/048 E03B7/04 E03B7/045 E03C1/01 E03C1/02 E03C1/0403 E03C1/044 E03C1/057 E03C2001/0418

[Classification Explorer](#)

Cited documents: US2009293961 AA, US7707665 BA, US2017130432 AA, US4554688 A, US2011139269 AA, US2009293190 AA, US2017138020 AA, US2009145500 AA, US5564462 A,

Abstract:
A water control system 100 and installation method. The system includes a pipe network which is, in use, connected to a heated/hot water supply source 1. The pipe network is configured to supply/distribute heated water from the supply source 1 to a primary heated water demand outlet 5 and a secondary water utilisation/storage arrangement 15. The system 100 also includes a control arrangement 104 which is configured, when receiving an activation instruction/signal or an indication that heated water is demanded at the primary demand outlet 5, to prevent/restrict water flow to the primary demand outlet 5 for a period of time and during this time period, divert/direct water flow from the heated/hot water supply source 1 to the secondary water utilisation/storage arrangement 15. After the period of time, the control arrangement diverts/directs water flow from the heated/hot water supply source 1 to the primary demand outlet 5.



7) Family number: 71413959 (US2020024836 AA)

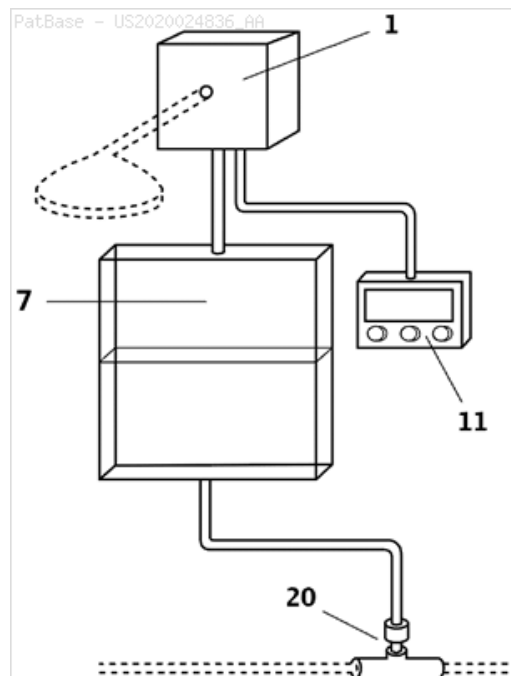
© PatBase

Title: AUTOMATED DEVICE FOR SAVING SHOWER WATER
Priority: CO20170003237 20170331 WO2018IB52244 20180331
Family:

Publication number	Publication date	Application number	Application date
CA3059238 AA	20190930	CA20183059238	20180331
CN110678612 A	20200110	CN201880035244	20180331
CO20170003237 A1	20181010	CO20170003237	20170331
EP3613907 A2	20200226	EP20180774349	20180331
US2020024836 AA	20200123	US20180499846	20180331
WO18178954 A2	20181004	WO2018IB52244	20180331
WO18178954 A3	20190221	WO2018IB52244	20180331

Probable Assignee: CORTES MURGUEITIO JORGE EDUARDO
Assignee(s):(std): CORTES JORGE EDUARDO ; CORTES MURGUEITIO JORGE EDUARDO
Assignee(s): J E 柯特斯 ; J·E·柯特斯
Inventor(s):(std): CORTES JORGE EDUARDO ; CORTES MURGUEITIO JORGE EDUARDO
Inventor(s): J E 柯特斯 ; J·E·柯特斯
Agent(s): MARTIN SANTOS VICTORIA SOFIA; NELLIGAN OBRIEN PAYNE LLP; 深圳市百瑞专利商标事务所 普通合伙 44240; 金辉
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 DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW 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 SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW
International class (IPC 8-9): E03B1/04 E03C1/01 E03C1/04 G05B11/00 G05B11/01 H01H43/00
CPC: E03B1/041 E03B1/048 E03B2001/045 E03C1/0408 G05B11/01 H01H43/00
[Classification Explorer](#)
Cited documents: US8978993 BA, US2014261763 AA, US2011139269 AA, US2014326331 AA, CN205745606 U, CN204181532 U, US7490373 BA, CN204373226 U, US2009165875 AA, US7490373, CN105588332 A, WO13027216 A1, CN202235038 U, US4870986 A,

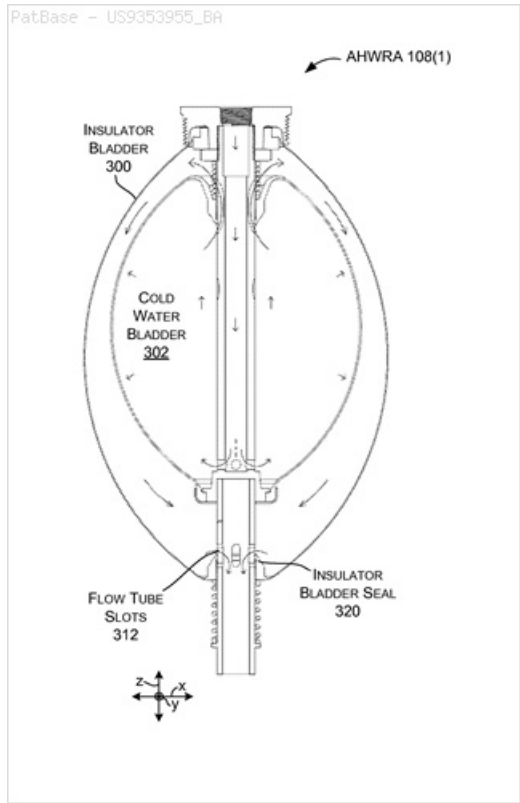
Abstract:
The invention relates to a water-saving device which is fully automated and comprises a complete electronic control system, the possibility of connection to the aqueduct supply network and a hydraulic generator for saving energy. The device according to the invention communicates with a modular system that optionally reduces the water flow of the shower to 50 percent and diverts the other 50 percent to the storage tank, by means of the electronic interface. The device according to the invention is applicable in the construction industry.



8) Family number: 62473564 (US9353955 BA)

© PatBase

Title:	HOT WATER RECOVERY APPARATUS			
Priority:	US20120657477P 20120608		US20130912078 20130606	
Family:	Publication number	Publication date	Application number	Application date
	US9353955 BA	20160531	US20130912078	20130606
Probable Assignee:	HAWS SPENCER K			
Assignee(s):(std):	HAWS SPENCER K ; HAWS SPENCER KIM			
Inventor(s):(std):	HAWS SPENCER KIM			
Agent(s):	PAUL W; RAINIER PATENTS PS; REMEMBRANCE			
International class (IPC 8-9):	E03B7/04 F16L55/05 F16L55/054 F24D17/00 F24D19/10 F24H9/02 G05D23/13			
CPC:	E03B7/045 F16L55/05 F16L55/054 F24D17/0005 F24D17/0026 F24D17/0084 F24D19/1051 F24H9/02 G05D23/1306 Y02B30/18 Y10T137/6497			
US class:	1/1			
Classification Explorer				
Cited documents:	WO10103521 A2, FR2947615 A1, CN201306795 A, US2016003485 AA, US2015377497 AA, US2013327790 AA, US2013228233 AA, US2012118414 AA, US2012097746 AA, US2011139269 AA, US2008272116 AA, US2008230126 AA, US2008035303 AA, US2007114297 AA, US2006144455 AA, US2006022062 AA, US2005034774 AA, US2003032854 AA, US7779857 BB, US7740182 BB, US7690395 BB, US7648078 BB, US7487923 BB, US7475703 BB, US7287707 BB, US7198059 BB, US7140382 BB, US7077155 BB, US7073528 BB, US6962162 BB, US6935357 BB, US6920844 BA, US6745723 BA, US6588377 BA, US6536464 BA, US6418969 BA, US6347748 BA, US6039067 A, US5887616 A, US5860452 A, US5829475 A, US5819785 A, US5806511 A, US5799827 A, US5775372 A, US5606996 A, US5586572 A, US5584316 A, US5452740 A, US5385168 A, US5351712 A, US5347956 A, US5277219 A, US5261443 A, US5205318 A, US5042524 A, US4945942 A, US4930551 A, US4798224 A, US4697614 A, US4672990 A, US4628902 A, US4606325 A, US4518007 A, US4450829 A, US4321943 A, US4181156 A, US3847307 A, US2918090 A, US2838073 A,			
Forward Citations:	US10436455 BB, US9834913 BA,			
Abstract:	The concepts relate to reducing energy loss associated with hot water systems. One example includes a water flow management device that includes inner and outer nested elastomeric bladders. The inner and outer nested elastomeric bladders define a tortuous fluid pathway into the inner bladder, between the inner and outer bladders, and out of the outer bladder.			



9) Family number: 73595849 (US2019087788 AA)

© PatBase

Title: MIRROR

Priority: US20170706214 20170915

Family:

Publication number	Publication date	Application number	Application date
US10448762 BB	20191022	US20170706214	20170915
US2019087788 AA	20190321	US20170706214	20170915

Probable Assignee: KOHLER CO

Assignee(s):(std): KOHLER CO

Inventor(s):(std): DIEMEL JR DOUG ; LEMEL JESSE ; LETOURNEAU ALEX ; MUELLER JEFFREY ; MURPHY ROGER

Inventor(s): DIEMEL JR

Agent(s): FOLEY AND LARDNER LLP

International class A47G1/02 G06Q10/00 G06Q99/00 H04N1/00
(IPC 8-9):

CPC: A47G1/02 A47K13/105 E03C1/057 E03D5/105 E03D9/002 F25D29/00 G06Q10/20 G06Q99/00
H04N1/00403 H04N1/00408

US class: 1/1

[Classification Explorer](#)

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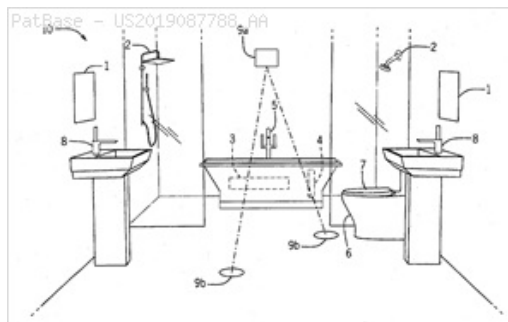
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Forward Citations: US10767302 BB, US10702060 BB, US10667605 BB,

Abstract:

A mirror assembly includes a mirror substrate, a sensor, and a controller. The mirror substrate is configured to provide a reflection of objects including a user. The sensor is configured to collect sensor data from the user. The controller is configured to analyze the sensor data and select an auxiliary command for an auxiliary device coordinated with the mirror assembly. The auxiliary command is selected for the user.



10) Family number: 66936383 (US2017260721 AA)

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Title: WATER CONSERVATION SYSTEM

Priority: US20160068065 20160311

Family:

Publication number	Publication date	Application number	Application date
US2017260721 AA	20170914	US20160068065	20160311

Probable Assignee: VELEZ JR JULIO

Assignee(s):(std): VELEZ JR JULIO

Inventor(s):(std): VELEZ JR JULIO

International class A47K3/28 E03C1/04
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CPC: A47K3/28 E03B1/048 E03C1/0408 E03C2001/0418

US class: 1/1 4/602

[Classification Explorer](#)

Cited documents: US2016326729 AA, US2011139269 AA, US4923098 A, US9074356 BB, US8720723 BB, US7025879 BA, US5862544 A, US5819773 A, US5233706 A, US5165456 A, US2013292395 AA, US2012266961 AA, US2009293961 AA,

Forward Citations: US10676931 BB,

Abstract:

A water conservation system includes a shower that may deliver a fluid. The shower has a pair of intersecting walls, a shower head and a drain. The shower head may be fluidly coupled to a fluid source thereby facilitating the shower head to deliver the fluid. A storage unit is positioned in the shower and the storage unit is fluid communication with the shower head. The storage unit is positioned in an open position when the shower is initially turned on. Thus, the storage unit stores cold fluid until heated fluid travels to the shower head thereby inhibiting the cold fluid from passing through the drain. The storage unit retains the cold fluid to be used at a later time.

