

Search history

Search 1: PD<20150218 and IC=(E03C1/04) (Results 10888)

Search 2: 1 AND (FT = magnet* NEAR (connect* OR engag*)) (Results 73)

Search 3: 2 AND (FT = head OR spout OR spray OR nozzle) (Results 57)

Title: SYSTEM AND METHOD FOR AFFECTING FLUX OF MULTI-POLE MAGNETIC STRUCTURES

Abstract: A shunt plate is provided that is associated with a first side of a multi-pole magnetic structure. The shunt plate provides a magnetic short between opposite polarity magnetic sources on the first side of said magnetic structure, the magnetic short causing a magnetic flux of said opposite polarity magnetic sources to be routed from said first side of the magnetic structure through said magnetic structure to the second side of said magnetic structure. The thickness of the shunt plate is selected by determining the integrated flux across a magnetic source of the magnetic structure such that the corresponding flux density in the shunt plate does not substantially exceed the flux density saturation level of a cross section of the shunt plate.

Classifications:**International (IPC 8-9):** E03C1/04 F16K11/14 F16K31/08

G01R33/038 H01F7/02 H01F7/04 H01H1/00

H05K9/00 (Advanced/Invention);

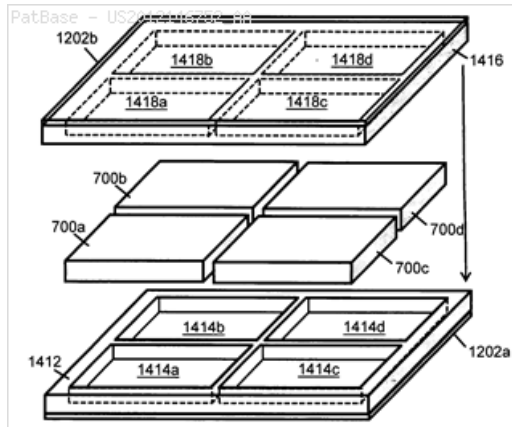
H01F3/12 (Advanced/Non-invention)

CPC: H05K9/00 H01F3/12 H01F7/0205 H01F7/0257 H01F7/04

H01F7/0242 Y10T137/86815 Y10T137/86823 G01R33/0385

H01F7/021 B23P15/001 E04F13/0883 F16K11/0787 F16K31/086

F16K31/088 F16K11/0782

European: H01F7/02A T01F3/12**US:** 1/1 137/625.4 137/625.41 335/219 335/295 335/296 335/301 335/302 335/306 335/306P**Family:**

Publication number	Publication date	Application number	Application date
EP2820659 A2	20150107	EP20130754686	20130227
EP2820659 A4	20160413	EP20130754686	20130227
US2012146752 AA	20120614	US20110374074	20111209
US2013222091 AA	20130829	US20130779611	20130227
US2014104022 AA	20140417	US20130103760	20131211
US2014184368 AA	20140703	US20140198226	20140305
US2014191830 AA	20140710	US20130066426	20131029
US2014373950 AA	20141225	US20140472945	20140829
US2016298787 AA	20161013	US20160188760	20160621
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US9371923 BB	20160621	US20140472945	20140829
WO13130667 A2	20130906	WO2013US28095	20130227
WO13130667 A3	20131107	WO2013US28095	20130227

Priority:

US20080123019P	20080404	US20080123718	20080520	US20090358423	20090123
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US20090277214P	20090922	US20090277900P	20090930	US20090278767P	20091009
US20090279094P	20091016	US20090281160P	20091113	US20090283780P	20091209
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US20100459994P	20101222	US20110462715P	20110207	US20110465810P	20110324
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US20130086924	20131121	US20130103760	20131211	US20140198226	20140305
US20140472945	20140829	US20160188760	20160621		

Probable Assignee: CORRELATED MAGNETICS RESEARCH LLC**Assignee(s):** (std): CORRELATED MAGNETICS RES LLC ; FULLERTON LARRY W ; ROBERTS MARK D**Assignee(s):** CORRELATED MAGNETICS RESEARCH LLC**Inventor(s):** (std): FULLERTON LARRY W ; ROBERTS MARK D ; ZIMMERMAN JACOB S ; SWIFT WESLEY ; EVANS R SCOTT**Inventor(s):** EVANS R**Agent(s):** HOPPLER JUSTIN; THOMAS A; VENABLE LLP; ROBERT S; VECTOR IP LAW GROUP; BABAYI ROBERT S**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

Title: SHOWER AND SPEAKER ASSEMBLY

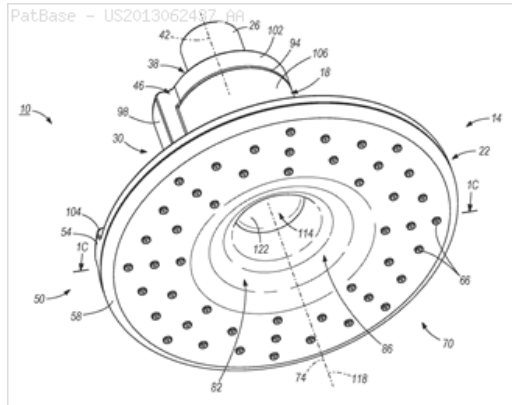
Abstract: A shower and speaker assembly. The assembly may include a shower device including a device housing defining an inlet communicating with an inlet chamber, an outlet and a waterway communicating between the inlet chamber and the outlet, the device housing further defining a receptacle having a closed end and an open end, the inlet chamber being behind the closed end, the waterway extending along the receptacle from the closed end toward the open end; and a speaker supportable in the receptacle. The outlet may define an outlet plane, and the speaker may include a speaker housing providing a speaker outlet, the speaker outlet being one of aligned with and positioned forwardly of the outlet plane when the speaker is supported in the receptacle. The assembly may further include a **magnetic connecting** structure operable to releasably connect the speaker and the shower device.

Classifications:

International (IPC 8-9): A47K3/28 B05B1/16 B05B1/18 B05B15/00 B67D7/08 E03C1/04 E03C1/05 F21V33/00 F21Y115/30 H04R1/02 H04R29/00 H04R9/02 H04R9/06 (Advanced/Invention); B05B7/04 F21Y115/30 (Advanced/Non-invention)

CPC: E03C1/055 B05B15/00 H04R2499/10 F21V33/0056 E03C1/0465 F21Y2115/30 B05B1/185 H04R1/028 B05B1/16 B05B1/18 B05B7/0416 E03C1/0408 F21V33/004 H04R1/021 H04R1/026 H04R2201/021 H04R2201/025 H04R2201/029 H04R2420/07 H04R2430/01 B05B15/528 B05B15/654

US: 1/1 239/289 381/386 381/387 381/393 4/605

**Family:**

Publication number	Publication date	Application number	Application date
CN103533870 A	20140122	CN201280009728	20120906
CN104799733 A	20150729	CN201510041205	20150127
CN203695252 U	20140709	CN201320563964U	20130911
DE102014012538 A1	20150305	DE201410012538	20140828
EP2747622 A1	20140702	EP20120830807	20120906
EP2747622 A4	20150603	EP20120830807	20120906
EP2898956 A1	20150729	EP20150152751	20150127
EP3088088 A1	20161102	EP20160173829	20150127
FR3009974 A1	20150306	FR20140058084	20140828
FR3019026 A1	20151002	FR20150052505	20150325
FR3019027 A1	20151002	FR20150052507	20150325
GB201415213 A0	20141015	GB20140015213	20140828
GB2520115 A1	20150513	GB20140015213	20140828
US2013062437 AA	20130314	US20120605587	20120906
US2014183279 AA	20140703	US20140200540	20140307
US2015053790 AA	20150226	US20140470761	20140827
US2015208152 AA	20150723	US20150606831	20150127
US2017152650 AA	20170601	US20160345210	20161107
US9095862 BB	20150804	US20140200540	20140307
US10003873 BB	20180619	US20150606831	20150127
WO13036631 A1	20130314	WO2012US53953	20120906

Priority:

US20110573448P	20110906	US20120631912P	20120113	US20120637009P	20120423
US20120605587	20120906	WO2012US53953	20120906	US20130871054P	20130828
US20140932020P	20140127	US20140200540	20140307	US20140470761	20140827
FR20140058084	20140828	EP20150152751	20150127	US20150606831	20150127
FR20150052505	20150325	FR20150052507	20150325	US20160345210	20161107

Probable Assignee: KOHLER CO

Assignee(s): (std): HANNA KENNETH SCOTT ; KOHLER CO ; KURU WILLIAM CLEMENT ; RUH KEITH SCOTT ; SOETAERT MICHAEL JAMES

Inventor(s): (std): HANNA KENNETH SCOTT ; KEITH SCOTT RUH ; KENNETH SCOTT HANNA ; KURU WILLIAM CLEMENT ; MICHAEL JAMES SOETAERT ; RUH KEITH SCOTT ; SOETAERT MICHAEL JAMES ; WILLIAM CLEMENT KURU ; DE SWARTE GREGORY ; G DASWAT

Inventor(s): GDASWAT

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

Title: ELECTRONIC FAUCET

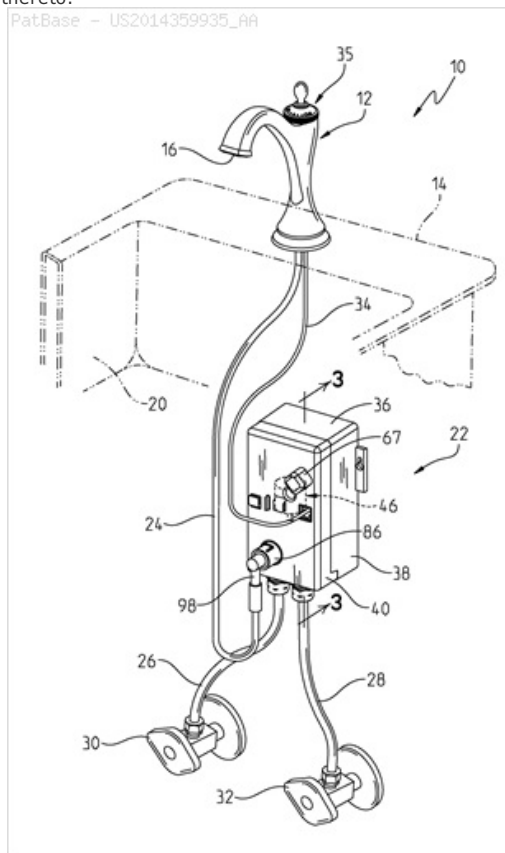
Abstract: An electronic faucet assembly includes a mixing valve and a user interface in communication with a controller. Input to the user interface illustratively causes the controller to operate in a flow control mode or a temperature control mode. In the flow control mode the mixing valve provides flow control of water at a constant temperature, while in the temperature control mode the mixing valve provides temperature control of water at a constant flow. A memory device may be secured to a faucet component to store identification data related thereto.

Classifications:

International (IPC 8-9): E03C1/04 E03C1/044 E03C1/05 F16K11/00 F16K11/074 F16K31/02 F16K31/04 F16K31/66 F16K37/00 (Advanced/Invention)

CPC: E03C1/0404 E03C1/055 F16K31/043 E03C2001/026 F16K11/074 F16K37/0041

US: 4/677

**Family:**

Publication number	Publication date	Application number	Application date
BR112014013826 A2	20170613	BR20141113826	20121206
BR112014013826 A8	20170620	BR20141113826	20121206
BR112014013826 A8	20170613	BR20141113826	20121206
CA2856194 AA	20140515	CA20122856194	20121206
CA2856194 C	20171128	CA20122856194	20121206
CA2978303 AA	20130613	CA20122978303	20121206
CN103975112 A	20140806	CN201280060485	20121206
CN103975112 B	20170308	CN201280060485	20121206
IN03707DN2014 A	20150213	IN2014DN03707	20140507
US2014359935 AA	20141211	US20120362765	20121206
US2016333556 AA	20161117	US20160224430	20160729
WO13086206 A1	20130613	WO2012US68265	20121206

Priority:

US20110567510P 20111206	CA20122856194 20121206	US20120362765 20121206
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CA20172856194 20170913		

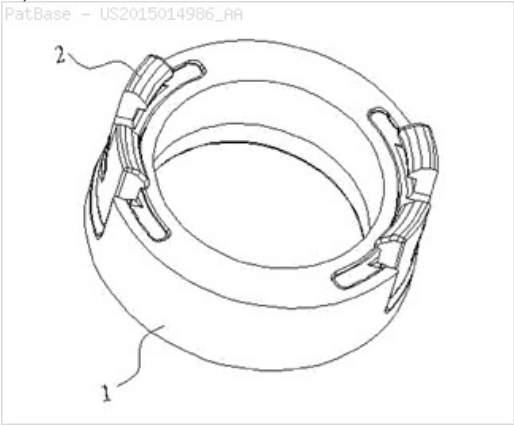
Probable Assignee: DELTA FAUCET CO**Assignee(s):** (std): MASCO CORP ; DELTA FAUCET CO**Assignee(s):** DEVRIES ADAM M ; GALAMBUS MARK ; DAVIDSON KYLE ROBERT ; MASCO OF INDIANA CORP ; VEROS MICHAEL J ; SAWASKI JOEL D ; THOMAS KURT JUDSON ; TYNER TONY ; MASCO OF INDIANA CORP55 EAST 111TH STREETINDIANAPOLISIN46280US**Inventor(s):** (std): MICHAEL J VEROS ; KURT JUDSON THOMAS ; MARK GALAMBUS ; JOEL D SAWASKI ; KYLE R DAVIDSON ; THOMAS KURT JUDSON ; VEROS MICHAEL J ; TYNER TONY ; ADAM M DEVRIES ; DAVIDSON KYLE ROBERT ; DEVRIES ADAM M ; GALAMBUS MARK ; SAWASKI JOEL D ; THOMAS KURT J ; TYNER ANTHONY E ; TONY TYNER**Inventor(s):** GALAMBUS MARKUS ; SAWASKI JOEL DUS ; DAVIDSON KYLE ROBERTUS ; DEVRIES ADAM MUS ; TYNER TONYUS ; THOMAS KURT JUDSONUS ; VEROS MICHAEL JUS**Agent(s):** PIASETZKI NENNIGER KVAS LLP; YERKESON DOUGLAS A**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 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

Title: **MAGNETIC CONNECTION** STRUCTURE

Abstract: A **magnetic connection** structure, includes a ring-shape **magnetic** sleeve body, made of mixed magnetic iron powder and plastic by means of ejection-to-mode; and a plastic fastener, provided in an arc-shape opening on both sides of the ring-shape magnetic sleeve body, for fastening a faucet seat or an ejection **head**. In the **magnetic connection** structure, the **magnetic** sleeve body and the plastic fastener are formed by means of ejection-to-mode separately. The magnetic sleeve body is formed by ejection-to-mode using magnetic iron powder and plastic mixed at a certain ratio; while the magnetic fastener is formed by means of ejection-to-mode separately. Then, the magnetic sleeve body and the plastic fastener are fastened together, to achieve said **magnetic connection** structure, that is low in production cost and easy to install. In case the plastic fastener is damaged, it can be replaced readily.

Classifications:

International (IPC 8-9): E03C1/04 F16K27/00 F16K51/00 F16L37/00 (Advanced/Invention)
CPC: E03C1/0404 E03C2001/0415
US: 285/9.1



Family:

Publication number	Publication date	Application number	Application date
 CN203404452 U	20140122	CN201320409364U	20130711
 US2015014986 AA	20150115	US20140329117	20140711

Priority:

CN201320409364U 20130711

Probable Assignee: XIAMEN RUNNER INDUSTRIAL CORP

Assignee(s): (std): RUNNER XIAMEN IND CORP ; XIAMEN RUNNER IND CORP

Assignee(s): XIAMEN RUNNER INDUSTRIAL CORP ; RUNNER XIAMEN INDUSTRIAL CORP

Inventor(s): (std): CHEN XI MIN ; LIAO LI ZHONG ; PENG KE SHENG ; PENG KESHENG ; LIAO LIZHONG ; CHEN XIMIN

Title: SHOWER SYSTEM COMBINING A TOP **SPRAYER** AND A HAND SHOWER

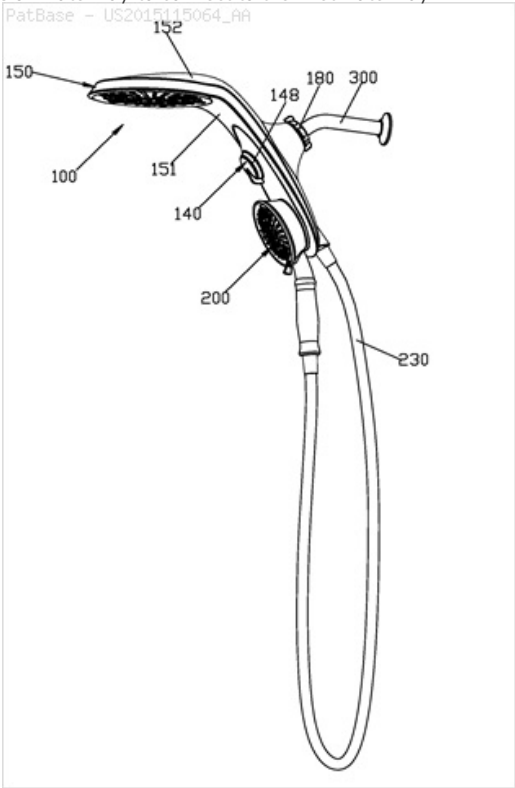
Abstract: A shower system includes a top **sprayer** with at least two water types and a hand shower. The top **sprayer** is disposed with an inlet waterway to connect to the water source and first diversion waterways corresponding to the water types one by one; wherein the top **sprayer** is further disposed with a second diversion waterway, the hand shower is connected to the second diversion waterway by an external flexible pipe; the top **sprayer** is disposed with a switch mechanism, the switch mechanism is cooperated to the inlet waterway, the first diversion waterways and the second diversion waterway to switch the waterways, thus switching any diversion waterway to connect to the inlet waterway.

Classifications:

International (IPC 8-9): B05B1/16 B05B1/18 B05B1/30 B05C1/02 E03C1/02 E03C1/04 (Advanced/Invention)

CPC: B05B1/169 B05B1/18 B05B1/185 B05B1/3026 E03C1/0408 E03C1/0409

US: 239/443



Family:

Publication number	Publication date	Application number	Application date
CN103521369 A	20140122	CN201310513988	20131025
CN103521369 B	20160907	CN201310513988	20131025
CN203565217 U	20140430	CN201320666083U	20131025
US2015115064 AA	20150430	US20140150208	20140108
US10046341 BB	20180814	US20140150208	20140108

Priority:

CN201310513988 20131025 CN201320666083U 20131025

Probable Assignee: XIAMEN SOLEX HIGH TECH IND CO LTD

Assignee(s): (std): XIAMEN SOLEX HIGH TECH IND CO ; XIAMEN SOLEX TECHNOLOGY CO LTD ; ZHOU HUASONG

Assignee(s): XIAMEN SOLEX HIGH TECH IND CO LTD ; XIAMEN SOLEX TECHNOLOGY CO

Inventor(s): (std): ZHOU HUASONG ; WU YULIN ; FAN WENBIN ; CAO BIN

Agent(s): RABIN AND BERDO PC

Title: MAGNETIC DOCKING FAUCET

Abstract: A faucet is provided. The faucet has a **spout** and a sprayhead releasably coupled to the **spout**. A hose having a magnetically responsive collar thereon provides fluid through the **spout** to the sprayhead. A magnet is located in the faucet such that when the sprayhead is coupled to the **spout**, the collar magnetically couples to the magnet, thereby applying sufficient magnetic force to the hose to retain the sprayhead against the **spout**.

Classifications:

International (IPC 8-9): B05B1/18 B05B1/22 B05B15/06 E03C1/02 E03C1/04 E03C1/05 E03C1/06 F16K11/00

F16K51/00 (Advanced/Invention);

E03C1/02 (Advanced/Non-invention);

F16K5/00 (Core/Invention)

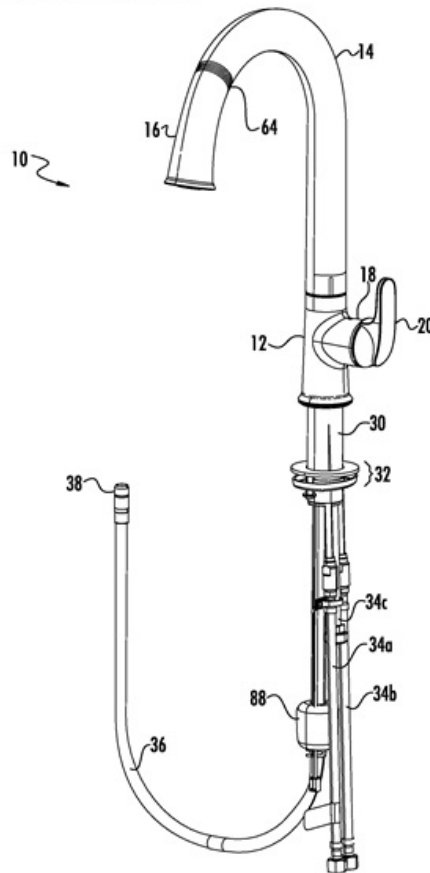
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E03C1/055 F16K11/00 E03C1/0403 B05B15/65 F16K51/00

US: 1/1 137/315.01 137/78.1 239/195

PatBase - US2014026980_AA

**Family:**

Publication number	Publication date	Application number	Application date
CA2821746 AA	20140127	CA20132821746	20130725
CN103574093 A	20140212	CN201310319942	20130726
CN103574093 B	20171024	CN201310319942	20130726
CN104631568 A	20150520	CN201410641091	20141113
CN104631568 B	20171003	CN201410641091	20141113
CN107448640 A	20171208	CN201710895469	20130726
DE602013014632 D1	20170112	DE201360014632T	20130725
EP2690228 A2	20140129	EP20130178072	20130725
EP2690228 A3	20150603	EP20130178072	20130725
EP2690228 B1	20161130	EP20130178072	20130725
MX2013008697 A1	20140402	MX2013008697	20130726
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US2014026980 AA	20140130	US20130787262	20130306
US2014069520 AA	20140313	US20130080309	20131114
US2015368887 AA	20151224	US20150841148	20150831
US2016160482 AA	20160609	US20160043180	20160212
US2017073944 AA	20170316	US20160358419	20161122
US9181685 BB	20151110	US20130787262	20130306
US9284723 BB	20160315	US20130080309	20131114
US9506229 BB	20161129	US20150841148	20150831
US9657466 BB	20170523	US20160043180	20160212
US10000913 BB	20180619	US20160358419	20161122

Priority:

US20120676711P	20120727	US20130787262	20130306	CA20132821746	20130725
EP20130178072	20130725	CN201310319942	20130726	US20130080309	20131114
US20150841148	20150831	US20160043180	20160212	US20160358419	20161122

Probable Assignee: KOHLER CO

Assignee(s): (std): KOHLER CO

Assignee(s): MURPHY ROGER W ; KOHLER CO KOHLER ; BARES WILLIAM R ; ERICKSON PERRY D ; ESCHE JOHN C

Inventor(s): (std): WILLIAM R BARES ; ROGER W MURPHY ; PERRY D ERICKSON ; MURPHY ROGER W ; MURPHY ROGER ; JOHN C ESCHE ; ESCHE JOHN C ; ESCHE JOHN ; ERICKSON PERRY D ; ERICKSON PERRY ; BARES

WILLIAM R ; BARES WILLIAM

Inventor(s): BARES WILLIAM FREDONIA ; ERICKSON PERRY SHEBOYGAN ; ESCHE JOHN KOHLER ; MURPHY ROGER KOHLER

Agent(s): EQUINOX; PATENTANWAELTE CANZLER AND BERGMEIER PARTNERSCHAFT MBB; WIGHTMAN DAVID ALEXANDER; PATEL BINESH; FOLEY AND LARDNER LLP

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

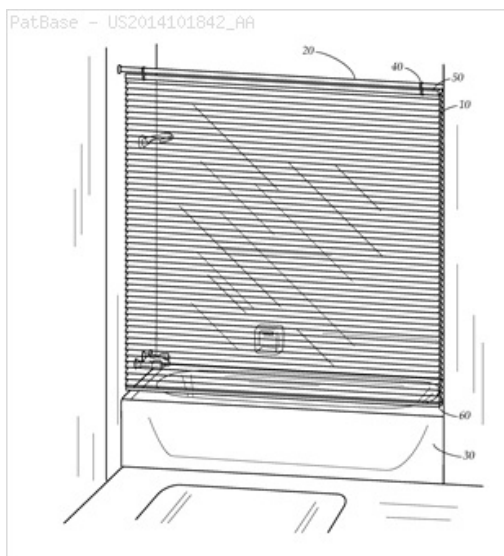
Title: SHOWER CURTAIN TECHNOLOGIES

Abstract: A shower curtain includes a body having an upper end and a lower end opposing the upper end. The body has a plurality of cells extending one above another between the upper end and the lower end. The body is configured for retracting toward the upper end based at least in part on the cells collapsing onto each other when a force is applied onto the lower end toward the upper end. The lower end is configured for substantially remaining in place responsive to the force being removed.

Classifications:

International (IPC 8-9): A45D42/16 A47K3/00 A47K3/28 A47K3/34 A47K3/36 A47K3/38 E03C1/04 E06B9/262 F21V33/00 G02B5/08 G02F1/01 G06F3/041 H02K7/18 H04N5/225 H04N5/232 H04R1/02 (Advanced/Invention); G06F3/0488 G06K9/00 H04N5/225 H04R1/02 (Advanced/Non-invention) **CPC:** A47K3/36 H04N5/2256 G06F3/041 H04N5/23241 H04N5/2251 G06F3/04883 H04N5/23219 G06K9/00402 H02K7/00 A47G1/00 A45D42/24 G02B5/08 G02F1/0121 H04N5/2257 A45D42/16 A47K3/281 A47K3/38 E03C1/0408 F21V33/004 H02K7/1823 H04R1/028 E06B9/262

US: 1/1 29/428 345/173 348/77 4/607

**Family:**

Publication number	Publication date	Application number	Application date
US2014101842 AA	20140417	US20130051444	20131010
US2016143486 AA	20160526	US20150948376	20151122
US2017079480 AA	20170323	US20160367430	20161202
US2017079481 AA	20170323	US20160367473	20161202
US2017079482 AA	20170323	US20160367522	20161202
US9192267 BB	20151124	US20130051444	20131010
US9510711 BB	20161206	US20150948376	20151122
US9949597 BB	20180424	US20160367430	20161202
US9955825 BB	20180501	US20160367473	20161202

Priority:

US20050948376 20051122 US20120712793P 20121011 US20130051444 20131010
 US20150948376 20151122 US20160367430 20161202 US20160367473 20161202
 US20160367522 20161202

Probable Assignee:

GREENBAUM BARRY

Assignee(s): (std):

GREENBAUM BARRY ; TSIBULEVSKIY ROMAN

Inventor(s): (std):

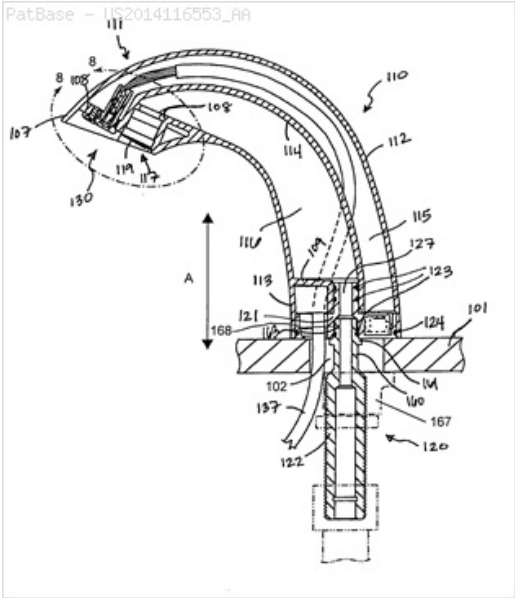
GREENBAUM BARRY ; TSIBULEVSKIY ROMAN

Title: MODULAR SENSOR ACTIVATED FAUCET

Abstract: A modular sensor activated faucet assembly provides a **spout** that can be coupled and removed from its mounting base quickly and easily for installation and service. A water tight connection can be established between the mounting base and the **spout** without the use of tools or additional mechanical connections, thus allowing the **spout** to be installed by simply plugging into its base. A seamless **spout** construction defining a hollow interior bifurcated by integral internal wall structure provides a wet chamber between its mounting end and the outlet and a flow pipe inside the **spout**. The modular base provides a cooperating flow pipe. When the **spout** is mounted onto the base, the flow pipes are configured to nest together in close relation such that one or more seals can be disposed between the flow pipes to provide a water tight seal between the **spout** and base.

Classifications:

International (IPC 8-9): E03C 1/04 E03C 1/05 (Advanced/Invention)
CPC: E03C 1/057 E03C 1/0404 E03C 2001/0416 Y10T 137/9464 Y10T 137/1842 Y10T 137/86815
US: 1/1 137/625.4 137/78.1 137/801



Family:

Publication number	Publication date	Application number	Application date
CA2889844 AA	20150428	CA20132889844	20131030
US2014116553 AA	20140501	US20130067662	20131030
US2015345120 AA	20151203	US20150819870	20150806
US9133607 BB	20150915	US20130067662	20131030
US9587384 BB	20170307	US20150819870	20150806
WO14070918 A1	20140508	WO2013US67555	20131030

Priority:

US20120720902P 20121031 US20130067662 20131030 WO2013US67555 20131030
US20150819870 20150806

Probable Assignee: ZURN IND LLC

Assignee(s): (std): CHENARD SEAN M ; LEVINER III ROY ; LEVINER ROY III ; LIEBAL MICHAEL ; STEPHENS PAUL ; SCHOOLCRAFT JOHN KEVIN ; SAUNDERS CRAIG ; VELET ALEX ; TILK JASON ; ZURN IND LLC

Assignee(s): NOTTINGHAM SPIRK

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Agent(s): MCCARTHY TETRAULT LLP; QUARLES AND BRADY LLP; WIETRZNY STEVEN J

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 SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: POSITIONING STRUCTURE OF WATER SUPPLY HOSE FOR PULL-OUT FAUCET

Abstract: A positioning structure of a water supply hose for a pull-out faucet contains: a faucet body including an outlet; a water supply hose accommodated in the faucet body so as to supply water and including an outlet segment; a **spraying head** connected with the outlet segment of the water supply hose and being pulled outwardly and retracted inwardly with the water supply hose; a magnetic attraction device including a first connecting member and a second **connecting** member which **magnetically** attract with each other. The first connecting member is disposed in the outlet, the second connecting member is mounted on an outlet segment, the second connecting member retracts back to its original position with the water supply hose and the **spraying head** and moves into the outlet so as to **magnetically** attract with the first **connecting** member, hence the water supply hose and the **spraying head** are magnetically attracted and fixed.

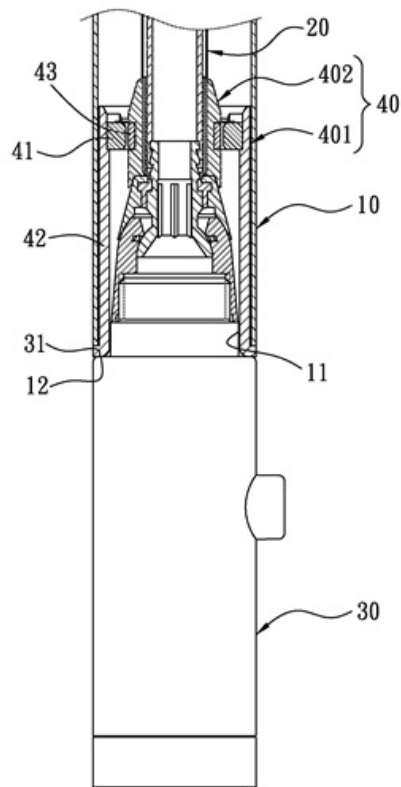
Classifications:

International (IPC 8-9): B05B1/18 B65H57/12 B65H75/34 E03C1/04 F16K21/00 F16K27/00 F16L3/01 F16L33/00 F16L35/00 F16L7/00 (Advanced/Invention)

CPC: E03C1/0403 E03C2001/0415 E03C2001/0416 E03C1/0401 E03C1/0404 Y10T137/598 Y10T137/9464

US: 1/1 137/315.01 137/801 4/678

PatBase - US2014251451_AA

**Family:**

Publication number	Publication date	Application number	Application date
CA2846881 AA	20150429	CA20142846881	20140314
CN104565477 A	20150429	CN201310522819	20131029
CN203656306 U	20140618	CN201320675089U	20131029
US2014251451 AA	20140911	US20140217936	20140318
US2015113726 AA	20150430	US20140218917	20140318
US2015267383 AA	20150924	US20140316650	20140626
US2015267384 AA	20150924	US20140316304	20140626
US8875738 BB	20141104	US20140217936	20140318
US9334632 BB	20160510	US20140316650	20140626

Priority:

CN201310522819 20131029 CN201320675089U 20131029 US20140217936 20140318
US20140316304 20140626 US20140316650 20140626

Probable Assignee: GLOBE UNION INDUSTRIAL CORP

Assignee(s): (std): CHENGLIN ENTERPRISE CO LTD ; GLOBE UNION IND CORP

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Inventor(s): (std): LI CHUNGHUNG ; LI CHUNHUNG ; TSENG KUOMING ; WU YONGIUN ; YANG CHAOTA ; ZENG GUOMING ; YANG ZHAODA ; WU YONGJUN ; LIN YIPING ; LI JUNHONG

Agent(s): ADE AND CO INC

Title: FAUCET ASSEMBLIES

Abstract: In an illustrative embodiment, a faucet assembly includes a faucet housing; a faucet **spout** carried by the faucet housing; at least one water valve disposed in fluid communication with the faucet **spout**; at least one delivery conduit disposed in fluid communication with the at least one water valve; and at least one magnetic faucet mount assembly including at least one faucet housing connector element carried by the faucet housing and at least one sink connector element adapted for engaging the sink, the at least one faucet housing connector element and the at least one sink **connector** element **magnetically engaging** each other.

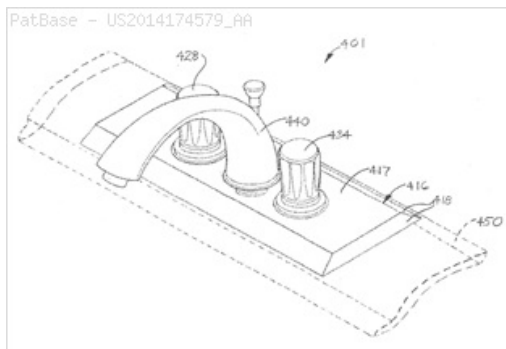
Classifications:

International (IPC 8-9): E03C1/04 E03C1/042

F16K21/00 (Advanced/Invention)

CPC: E03C1/0401 Y10T137/9464

US: 1/1 137/801

**Family:**

Publication number	Publication date	Application number	Application date
US2014174579 AA	20140626	US20120622561	20120919
US9376791 BB	20160628	US20120622561	20120919

Priority:

US20110626944P 20110919 US20120622561 20120919

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