



New connection on: : 10-11-2018 : 05:29:19 - Last disconnection on: : 10-11-2018 : 01:47:48

V 4.0.0.44358(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#(D201802)) (RPM D201802)

Welcome to EPOQUE Rebuild under the Production Environment

[No database/cluster active] ..fi

Select a database: ..FI EPODOC

 Database: EPODOC

[EPODOC: SS 1] faucet and coupling

Results in EPODOC **961**

[SS 2] ring and protrusion

Results in EPODOC **13.482**

[SS 3] 1 and 2

Results in EPODOC **1**

[SS 4] ring

Results in EPODOC **1.687.910**

[SS 5] 1 and 4

Results in EPODOC **119**

[SS 6] pipe

Results in EPODOC **2.370.892**

[SS 7] 5 and 6

Results in EPODOC **65**

[SS 8] compression

Results in EPODOC **520.921**

[SS 9] 7 and 8

Results in EPODOC 6

[SS 10] ..v

[EPODOC: SS 10] nut

Results in EPODOC 442.791

[SS 11] 7 and 10

Results in EPODOC 17

[SS 12] ..v

[EPODOC: SS 12] ..li



1/17 © EPODOC / EPO

PN - [CN207655345U](#) U 20180727

PR - CN201721711636U 20171211

AP - CN201721711636U 20171211

DT - I

PA - ZHEJIANG TUOZHEN SANITARYWARE CO LTD

TI - Novel structure shower **faucet**

AB - The utility model provides a novel structure shower **faucet** belongs to bathroom accessory technical field. It has been solved current gondola water **faucet** and changed inconvenient scheduling problem when using the champignon material. This novel structure shower **faucet**, including casing and connecting **pipe**, connecting **pipe** one end be used for with the wall in the outlet **pipe** be connected, its otherend links firmly with the casing through **coupling nut** mutually, the casing front end is provided with the water spraying end lid, water spraying end covers evenly distributed has the apopore, and water spraying end lid center department has seted up the lumen pore, be provided with a storage section of thick bamboo in the lumen pore, a storage section of thick bamboo includes cover and barrel, beprovided with the solid agent of champignon in the barrel, annular strip has on the casing, the annular strip is taken and has been offered the mounting groove, the mounting groove have a square retaining **ring**, be provided with the solid agent of champignon in the mounting groove, the solid agent upper end of champignon is provided with the arc inset, the annular strip is taken and is provided with the sealed apron that can follow annular strip length direction and slide. The utility model has the advantages of simple structure, change simple and efficient.

2/17 © EPODOC / EPO

PN - [MX2017017085](#) A 20180430

PR - KR20150092603 20150630; WO2016KR06952 20160629

AP - MX20170017085 20160629

DT - I

CCI - [E03C1/0403](#) ; [E03C1/042](#) ; [F16L19/062](#) ; [F16L19/065](#)

PA - IDIN LAB INC [KR]

TI - **FAUCET COUPLING**STRUCTURE.

AB - The present invention relates to a **faucet coupling** structure and, particularly, to a **faucet coupling** structure in which: a connecting body (100) having a water supply **pipe** (400) connected to one end thereof has a **coupling** piece (120) formed on the other end thereof, and a connecting **pipe** (320) formed on a **faucet** (300) is inserted in the **coupling** piece (120); a grab **ring** (220) is installed within the **coupling** piece (120) to grasp the connecting **pipe** (32/) so that the connecting **pipe** (32/) does not separate from the **coupling** piece (120); a compression **ring** (240) is provided to rotate simultaneously with the connecting **pipe** (320) so as to be able to move forward and backward along the connecting **pipe** (320), and when the compression **ring** (240) expands the grab **ring** (220), the connecting **pipe** (320) can be separated from the **coupling** piece (120); a fastening **nut** (260) covers the compression **ring** (240) and is coupled by being screwed to the **coupling** piece (120) so that the compression **ring** (240) is not separated, and the compression **ring** (240) and the fastening **nut** (260) are formed to selectively engage with each other; in a state in which the compression **ring** (240) and the fastening **nut** (260) are engaged, by rotating the connecting **pipe** (320), the fastening **nut** (260) can be separated from the **coupling** piece (120); and when the engagement of the compression **ring** (240) and the fastening **nut** (260) is released, by rotating the connecting **pipe** (320), the angle of the **faucet** can be adjusted.

3/17 © EPODOC / EPO

PN - [PH12017502384](#) A1 20180702

PR - KR20150092603 20150630; WO2016KR06952 20160629

AP - PH20171502384 20171221

DT - I

CCI - [E03C1/0403](#) ; [E03C1/042](#) ; [F16L19/062](#) ; [F16L19/065](#)

PA - IDIN LAB INC [KR]

TI - **FAUCET COUPLING**STRUCTURE

AB - The present invention relates to a **faucet coupling** structure and, particularly, to a **faucet coupling** structure in which: a connecting body (100) having a water supply **pipe** (400) connected to one end thereof has a **coupling** piece (120) formed on the other end thereof, and a connecting **pipe** (320) formed on a **faucet** (300) is inserted in the **coupling** piece (120); a grab **ring** (220) is installed within the **coupling** piece (120) to grasp the connecting **pipe** (32/) so that the connecting **pipe** (32/) does not separate from the **coupling** piece (120); a compression **ring** (240) is provided to rotate simultaneously with the connecting **pipe** (320) so as to be able to move forward and backward along the connecting **pipe** (320), and when the compression **ring** (240) expands the grab **ring** (220), the connecting **pipe** (320) can be separated from the **coupling** piece (120); a fastening **nut** (260) covers the compression **ring** (240) and is coupled by being screwed to the **coupling** piece (120) so that the compression **ring** (240) is not separated, and the compression **ring** (240) and the fastening **nut** (260) are formed to selectively engage with each other; in a state in which the compression **ring** (240) and the fastening **nut** (260) are engaged, by rotating the connecting **pipe** (320), the fastening **nut** (260) can be separated from the **coupling** piece (120); and when the engagement of the compression **ring** (240) and the fastening **nut** (260) is released, by rotating the connecting **pipe** (320), the angle of the **faucet** can be adjusted.

4/17 © EPODOC / EPO

- PN - [CN107923161](#) A 20180417
- PR - KR20150092603 20150630; WO2016KR06952 20160629
- AP - CN20168038039 20160629
- DT - I
- CT - || STSE (A)
[US4964657](#) A 19901023 [X] (GONZALES TEODORO J [US])
[X] 1-4
* 说明书附图1-6，说明书第3栏 *;
[US2010176587](#) A1 20100715 [X] (OH SEUNG-IL [KR])
[X] 1-4
* 权利要求1以及说明书附图1-13 *
- CCI - [E03C1/0403](#) ; [E03C1/042](#) ; [F16L19/062](#) ; [F16L19/065](#)
- PA - LEE DO KYEONG
- TI - FAUCET COUPLING STRUCTURE
- AB - The present invention relates to a **faucet coupling** structure, and particularly, to a **faucet coupling** structure in which: a connecting body (100) having a water supply **pipe** (400) connected to one end thereof has a **coupling** piece (120) formed on the other end thereof, and a connecting **pipe** (320) formed on a **faucet** (300) is inserted in the **coupling** piece (120); a grab **ring** (220) is installed within the **coupling** piece (120) to grasp the connecting **pipe** (320) so that the connecting **pipe** (320) does not separate from the **coupling** piece (120); a compression **ring** (240) is provided to rotate simultaneously with the connecting **pipe** (320) so as to be able to move forward and backward along the connecting **pipe** (320), and when the compression **ring** (240) expands the grab **ring** (220), the connecting **pipe** (320) can be separated from the **coupling** piece (120); a fastening **nut** (260) covers the compression **ring** (240) and is coupled by being screwed to the **coupling** piece (120) so that the compression **ring** (240) is not separated, and the compression **ring** (240) and the fastening **nut** (260) are formed to selectively engage with each other; in a state in which the compression **ring** (240) and the fastening **nut** (260) are engaged, by rotating the connecting **pipe** (320), the fastening **nut** (260) can be separated from the **coupling** piece (120); and when the engagement of the compression **ring** (240) and the fastening **nut** (260) is released, by rotating the connecting **pipe** (320), the angle of the **faucet** can be adjusted.

5/17 © EPODOC / EPO

- PN - [CN206889792U](#) U 20180116
- PR - CN20172579267U 20170523
- AP - CN20172579267U 20170523
- DT - I
- PA - CANATURE ENV PRODUCTS CO LTD
- TI - Split water tap
- AB - The utility model discloses a split water tap, including leading body, screwed **pipe** and **coupling** assembling, the tap body includes the **faucet** valve body and **faucet** valve core, the **faucet** valve core with the upper portion of screwed **pipe** is connected and forms a waterway, **coupling** assembling includes a set **nut**, a fastening **nut**, a plurality of locking screw and a plurality of sealing washer, set **nut** with the lower part fixed connection of screwed **pipe**, fastening **nut**'s side is equipped with the arc

groove, the arc groove with the locking screw phase -match, fastening **nut** with the upper portion fixed connection of screwed **pipe**, the bottom **ring** of the **faucet** valve body is equipped with a plurality of screws, the **faucet** valve body with fastening **nut** is through passing the screw locking screw fixed connection. The utility model discloses can install above the mesa simply to the more installation occasions of adaptation, and potential safety hazards such as internal connection structure non - rickety, seepage have better use and experience.

6/17 © EPODOC / EPO

PN - [AU2016285084](#) A1 20180215
 PR - KR20150092603 20150630; WO2016KR06952 20160629
 AP - AU20160285084 20160629
 DT - I
 CCI - [E03C1/0403](#) ; [E03C1/042](#) ; [F16L19/062](#) ; [F16L19/065](#)
 PA - IDIN LAB INC
 TI - **Faucet coupling** structure
 AB - The present invention relates to a **faucet coupling** structure and, particularly, to a **faucet coupling** structure in which: a connecting body (100) having a water supply **pipe** (400) connected to one end thereof has a **coupling** piece (120) formed on the other end thereof, and a connecting **pipe** (320) formed on a **faucet** (300) is inserted in the **coupling** piece (120); a grab **ring** (220) is installed within the **coupling** piece (120) to grasp the connecting **pipe** (32/) so that the connecting **pipe** (32/) does not separate from the **coupling** piece (120); a compression **ring** (240) is provided to rotate simultaneously with the connecting **pipe** (320) so as to be able to move forward and backward along the connecting **pipe** (320), and when the compression **ring** (240) expands the grab **ring** (220), the connecting **pipe** (320) can be separated from the **coupling** piece (120); a fastening **nut** (260) covers the compression **ring** (240) and is coupled by being screwed to the **coupling** piece (120) so that the compression **ring** (240) is not separated, and the compression **ring** (240) and the fastening **nut** (260) are formed to selectively engage with each other; in a state in which the compression **ring** (240) and the fastening **nut** (260) are engaged, by rotating the connecting **pipe** (320), the fastening **nut** (260) can be separated from the **coupling** piece (120); and when the engagement of the compression **ring** (240) and the fastening **nut** (260) is released, by rotating the connecting **pipe** (320), the angle of the **faucet** can be adjusted.

7/17 © EPODOC / EPO

PN - [CA2990363](#) A1 20170105
 PR - KR20150092603 20150630; WO2016KR06952 20160629
 AP - CA20162990363 20160629
 DT - I
 CCI - [E03C1/0403](#) ; [E03C1/042](#) ; [F16L19/062](#) ; [F16L19/065](#)
 PA - IDIN LAB INC [KR]
 TI - **FAUCET COUPLING STRUCTURE**
 AB - The present invention relates to a **faucet coupling** structure and, particularly, to a **faucet coupling** structure in which: a connecting body (100) having a water supply **pipe** (400) connected to one end thereof has a **coupling** piece (120) formed on the other end thereof, and a connecting **pipe** (320) formed on a **faucet** (300) is inserted in the **coupling** piece (120); a grab **ring** (220) is installed within the **coupling**

piece (120) to grasp the connecting **pipe** (32/) so that the connecting **pipe** (32/) does not separate from the **coupling** piece (120); a compression **ring** (240) is provided to rotate simultaneously with the connecting **pipe** (320) so as to be able to move forward and backward along the connecting **pipe** (320), and when the compression **ring** (240) expands the grab **ring** (220), the connecting **pipe** (320) can be separated from the **coupling** piece (120); a fastening **nut** (260) covers the compression **ring** (240) and is coupled by being screwed to the **coupling** piece (120) so that the compression **ring** (240) is not separated, and the compression **ring** (240) and the fastening **nut** (260) are formed to selectively engage with each other; in a state in which the compression **ring** (240) and the fastening **nut** (260) are engaged, by rotating the connecting **pipe** (320), the fastening **nut** (260) can be separated from the **coupling** piece (120); and when the engagement of the compression **ring** (240) and the fastening **nut** (260) is released, by rotating the connecting **pipe** (320), the angle of the **faucet** can be adjusted.

8/17 © EPODOC / EPO

- PN - [US2017321399](#) A1 20171109
- PR - KR20150092603 20150630; WO2016KR06952 20160629
- AP - US201715661530 20170727
- DT - *; Rep
- CT - || R141 (A1)
[US4964657](#) A 19901023 [] (GONZALES TEODORO J [US]);
[US8303001](#) B2 20121106 [] (OH SEUNG-IL [KR]);
[US2013049351](#) A1 20130228 [] (CHEN MING HUNG [TW])
- CCI - [E03C1/0403](#) ; [E03C1/042](#) ; [F16L19/062](#) ; [F16L19/065](#)
- PA - LEE DO KYENG [KR]; AHN CHOONG BUM [KR]; DO KYENG LEE & CHOONG BUM AHN
- TI - **FAUCET COUPLING STRUCTURE**
- AB - A structure for **coupling** a **faucet** or a similar device includes: a **faucet** with a connecting **pipe** portion extending there-from; a connecting body with an annular **coupling** portion formed at one end and connected to a liquid supply source to discharge liquid through the **faucet**; a fastening **nut** screw-coupled to the annular **coupling** portion; a pressing **ring** coupled to the connecting **pipe** portion; and a grab **ring** configured to grab an outer circumference of the connecting **pipe** portion to have the connecting **pipe** portion not to be detached from the **coupling** portion. The fastening **nut** can be detached from the **coupling** portion by rotating the **faucet** and the connecting **pipe** portion with the engaging configurations of the pressing **ring** and the fastening **nut** in engaged position, and an angular position of the **faucet** can be adjusted to a preferred position in assembly by rotating the **faucet** and with the engaging configurations of the pressing **ring** and the fastening **nut** in disengaged position.

9/17 © EPODOC / EPO

- PN - [EP3318682](#) A1 20180509
- PNFP - EP3318682 A4 20180829
- PR - KR20150092603 20150630; WO2016KR06952 20160629
- AP - EP20160818209 20160629
- DT - **
- CCI - [E03C1/0403](#) ; [E03C1/042](#) ; [F16L19/062](#) ; [F16L19/065](#)
- PA - (A1 A4)

	IDIN LAB INC [KR]
TI	- (A1 A4) FAUCET COUPLING STRUCTURE
AB	- (A1) A faucet coupling structure includes connection pipe connected to a connecting body at one side thereof and formed with a coupler at an opposite side thereof. A connection pipe formed on a faucet is fitted to the coupler. A grab ring is installed within the coupler such that the connection pipe is not separated from the coupler by holding the connection pipe . A pressure ring is rotated together with the connection pipe and is moved forward and backward along the connection pipe . When the pressure ring expands the grab ring , the connection pipe is separated from the coupler. When the pressure ring is engaged with the fastening nut , the fastening nut is separated from the coupler by rotating the connection pipe . When the pressure ring is disengaged from the fastening nut , an angle of the faucet is adjusted by rotating the connection pipe .
10/17	© EPODOC / EPO
PN	- WO2017003176 A1 20170105
PR	- KR20150092603 20150630
AP	- WO2016KR06952 20160629
DT	- **
CT	- [KR] ISR (A1) KR20100063411 A 20100611 [A] (KOLON CONSTRUCTION CO LTD [KR], et al) [A] 1-4 * See paragraphs [0020], [0029] and figures 4-6. *; KR20050000848 A 20050106 [A] (ACORN CO LTD) [A] 1-4 * See claim 1 and figures 6-7. *; KR200234269Y Y1 00000000 [A] (DMT CO.. LTD.) [A] 1-4 * See claim 1 and figure 2. *; KR20100009210 A 20100127 [A] (PARK KANG HUN [KR]) [A] 1-4 * See paragraph [0034] and figure). *; KR20070115388 A 20071206 [A] (LEE KEUN SANG [KR]) [A] 1-4 * See paragraphs [0048]-[0050] and figure 4. *
CCI	- E03C1/0403 ; E03C1/042 ; F16L19/062 ; F16L19/065
PA	- LEE DO KYEONG [KR]
TI	- FAUCET COUPLING STRUCTURE
AB	- The present invention relates to a faucet coupling structure and, particularly, to a faucet coupling structure in which: a connecting body (100) having a water supply pipe (400) connected to one end thereof has a coupling piece (120) formed on the other end thereof, and a connecting pipe (320) formed on a faucet (300) is inserted in the coupling piece (120); a grab ring (220) is installed within the coupling piece (120) to grasp the connecting pipe (32/) so that the connecting pipe (32/) does not separate from the coupling piece (120); a compression ring (240) is provided to rotate simultaneously with the connecting pipe (320) so as to be able to move forward and backward along the connecting pipe (320), and when the compression ring (240) expands the grab ring (220), the connecting pipe (320) can be separated from the coupling piece (120); a fastening nut (260) covers the

compression **ring** (240) and is coupled by being screwed to the **coupling** piece (120) so that the compression **ring** (240) is not separated, and the compression **ring** (240) and the fastening **nut** (260) are formed to selectively engage with each other; in a state in which the compression **ring** (240) and the fastening **nut** (260) are engaged, by rotating the connecting **pipe** (320), the fastening **nut** (260) can be separated from the **coupling** piece (120); and when the engagement of the compression **ring** (240) and the fastening **nut** (260) is released, by rotating the connecting **pipe** (320), the angle of the **faucet** can be adjusted.

11/17 © EPODOC / EPO

PN - [KR101654858B](#) B1 20160906

PR - KR20150092603 20150630

AP - KR20150092603 20150630

DT - I

CT - || STSE (B1)
[KR20100063411](#) A 20100611 [] (KOLON CONSTRUCTION CO LTD [KR], et al);
[KR20050000848](#) A 20050106 [] (ACORN CO LTD);
[KR200234269Y](#) Y1 00000000 []

CCI - [E03C1/0403](#) ; [E03C1/042](#) ; [F16L19/062](#) ; [F16L19/065](#)

PA - LEE DO KYEONG [KR]

TI - **FAUCET COUPLING STRUCTURE**

AB - The present invention relates to a connection structure of a **faucet**, which enables a user to connect the **faucet** while adjusting an angle of the **faucet** to a desired angle. Especially, a connection unit (120) is formed on one side of a connection body (100), wherein a water supply **pipe** (400) is connected to the other side, and a connection **pipe** (320) formed in the **faucet** (300) is inserted into the connection unit (120). A grab **ring** (220) is installed in the connection unit (120) to hold the connection **pipe** (320), and, therefore, the connection **pipe** (320) is not separated from the connection unit (120). A pressing **ring** (240) rotates with the connection **pipe** (320) and moves forward and backward along the connection **pipe** (320). When the pressing **ring** (240) expands the grab **ring** (220), the connection **pipe** (320) can be separated from the connection unit (120). A **coupling nut** (260) is screwed and connected to the connection unit (120) while the **coupling nut** (260) encloses the pressing **ring** (240), so the pressing **ring** (240) is not separated. The pressing **ring** (240) and the **coupling nut** (260) are selectively engaged with each other. While the pressing **ring** (240) is engaged with the **coupling nut** (260), the connection **pipe** (320) rotates so that the **coupling nut** (260) can be separated from the connection unit (120). When the engagement of the pressing **ring** (240) and the **coupling nut** (260) is released, the connection **pipe** (320) rotates to control the angle of the **faucet**.

12/17 © EPODOC / EPO

PN - [JP2015121032](#) A 20150702

PNFP - JP6002121B B2 20161005

PR - JP20130264789 20131224

AP - JP20130264789 20131224

DT - I

CT - || STSE (A)
[JP2002121783](#) A 20020426 [] (KVK CORP);

[JP2010101101](#) A 20100506 [] (SAN EI FAUCET MFG);
[JPH11158955](#) A 19990615 [] (INAX CORP)

- FI - E03C1/042&E
- FT - 2D060/BA01; 2D060/BA03; 2D060/BA05; 2D060/BB01; 2D060/BE01; 2D060/BE11;
2D060/BF01
- PA - (A)
TAKAGI CO LTD
- TI - (A)
FAUCET DEVICE
- AB - (A)
PROBLEM TO BE SOLVED: To provide a **faucet** device whose connection part has superior watertightness and assembly workability.SOLUTION: A **faucet** device 2 includes: a **faucet** body 10; a discharge part 14 fitted to the **faucet** body 10; a connection **pipe** 16 having a connection **pipe coupling** part 16k which can make a first connection with the discharge part 14; a **nut** 18 having a **nut coupling** part 18k which can made a second connection with the **faucet** body 10; a C **ring** 20 fitted at a normal position of the connection **pipe** 16; and an adhesion member 50 provided between the connection **pipe coupling** part 16k and discharge part 14. The **faucet** body 10 and discharge part 14 are connected through the connection **pipe** 16 through the first connection and second connection. The **nut** 18 has a first end part 18a positioned on the side of the adhesion member 50. A space SP1 is provided between the first end part 18a and connection **pipe** 16. The space SP1 allows the adhesion member 50 to enter.

13/17 © EPODOC / EPO

- PN - [KR20140023093](#) A 20140226
- PR - KR20120089786 20120817
- AP - KR20120089786 20120817
- DT - I
- CNOI - [B01D35/04](#) ; [C02F1/001](#)
- CNOA - [C02F2307/06](#)
- PA - MOON YOUNG SOO [KR];
MOON DU YOUNG [KR]
- TI - THE **FAUCET** DEVICE OF WATER
PURIFIER FOR WASHBASIN
- AB - The present invention relates
to a purifier water outlet
device for a washstand, and
more specifically, to a
purifier water outlet device
installed at the washstand in
a bathroom and having an
adjustable height and
direction. According to the
present invention, the purifier
water outlet device for the
washstand is a **faucet** part
which comprises: an
inner **pipe** of which one side
has screws coupled to a



purifier water outlet **pipe**
 socket attached to a purifier
 and the other side is inserted
 into an outer **pipe**; a
 connecting **nut** fastened to
 outer **pipe** male screws, and
 mutually **coupling** the
 inner **pipe** and the outer **pipe**;
 a connecting **nut** O-ring
 positioned inside the
 connecting **nut**, and
 positioned between the inside
 of the outer **pipe** and the
 outside of the inner **pipe** after
 the connecting **nut** is
 tightened; the outer **pipe** of
 which one side has the
 outer **pipe** male screws
 coupled to connecting **nut**
 female screws and the other
 side has a holder
 having **faucet** part female
 screws of which the center is
 fastened with **faucet** part
 male screw **pipe**; the **faucet**
 part male screw **pipe**
 fastened to the **faucet** part
 female screws; a valve; a
 discharge **pipe**; a valve
 handle; an oral irrigator
 fitting unit positioned on the
 opposite side of the valve
 handle and under the valve; a
 tube connected to the oral
 irrigator fitting unit; and an
 oral irrigator installed at the
 end of the tube.

14/17 © EPODOC / EPO

PN - [KR100753188B](#) B1 20070822

PR - KR20060103952 20061025

AP - KR20060103952 20061025

DT - I

CT - || STSE (B1)

[JPH01186111](#) A 19890725 [] (NIPPON STEEL CORP, et al);

[JPH07208654](#) A 19950811 [] (OHYASHI CORP);

[JPH11293915](#) A 19991026 [] (YAMATO SETSUBI CONSTRUCTION CO, et al);

[JP2000248739](#) A 20000912 [] (SUMITOMO FORESTRY);

[JP2002047796](#) A 20020215 [] (SEKISUI CHEMICAL CO LTD)

CNOI - [E03C1/021](#) ; [E03C1/042](#) ; [F16L5/00](#)

CNOA - [Y10S4/07](#)

PA - JUN CHOO GIL [KR]
 TI - DEVICE OF **COUPLING** TAPS FOR THE WALL
 AB - A **faucet** connecting device for a wall is provided to connect a **faucet** exactly by fixing a body to reinforcing bars of a wall exactly using fastening joints and assembling a **pipe** having a connecting **nut**, and then connecting a **faucet** to the connecting **nut** of the **pipe**. The invention relates to a **faucet** connecting device(10) for installing a **faucet** to a veranda of an apartment house or a wall of a building exactly by fixing a body(11) having a connecting hole(14) coupled with a front cap (18) and a rear cap(19) on an installation site with a reinforcing bar to form a wall using an upper fastening joint(16) and fixing a fastening joint(16') of a fastening **ring** (17) inserted into the body to a reinforcing bar not to have locational change from the preset location while placing a wall with a concrete, inserting a connecting **nut** of a **pipe** to a space of the body and **coupling** to a **nut** fixing groove, assembling a thread of a cutoff member to the connecting **nut** and hanging on a projection to keep the connecting **nut** fixed on the **nut** fixing groove exactly, and removing the cutoff member and connecting a **faucet** to the connecting **nut** coupled to the **nut** fixing groove.

15/17 © EPODOC / EPO

PN - [KR20080008798](#) A 20080124

PNFP - KR100855304B B1 20080902

PR - KR20060068533 20060721

AP - KR20060068533 20060721

DT - I

CT - || STSE (B1)
[JPH1037260](#) A 19980210 [
] (KOMURO KENSETSU KK);
[JPH1060964](#) A 19980303 [
] (NASUKO FUITSUTEINGU KK);
[JP2005226384](#) A 20050825 [
] (MYM CORP);
[KR200304846Y](#) Y1 20030219
 [];
[KR200391278Y](#) Y1 20050801
 [];
[KR200424181Y](#) Y1 20060818
 []

CNOI - (A)
[E03C1/021](#) ; [E03C1/042](#)

CNOA - (A)
[F16L5/00](#) ; [E03C2001/0416](#) ;
[Y10S4/07](#)

PA - (A)
 LEE KEUN SANG [KR]

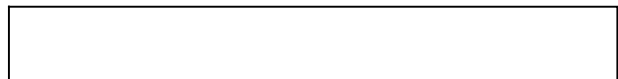
TI - (A B1)
 WALL WATER PANEL

AB - (A)
 A **faucet coupling** structure of
 an easily connectable and
 rotary wall embedded box is

provided to regulate the quantity of water supplied to a **faucet** and to supply cold and hot water or to cut off the water supply easily when replacing or repairing a **faucet** by installing a control valve to a **coupling** socket fixed to an open plate of a box, to couple a **faucet** easily by **coupling pipe** bends to a bolt portion of the **coupling** socket in a one-touch type using elastic fitting portions, and to couple a **faucet** easily in a limited space by being rotative in any directions of first and second **pipe** bends and a circular **pipe** bend regardless of the direction of a connecting **pipe** fixed to a circular **pipe** bend. A **faucet coupling** structure of an easily connectable and rotary wall embedded box, which is composed of a case equipped with a double wall corrugated **pipe** having a flexible hose supplying cold and hot water, an opening and closing plate opening and closing the case and an open plate(30) and coupled with a **faucet**(80), comprises a **coupling** socket(40) fixed by a bolt portion(42) to a fitting hole formed on the open plate by a fixing **nut**(46) and equipped with a control valve (44) at the front coupled with the **faucet**, a first **pipe** bend (50) formed on the rear of the **coupling** socket and formed by inserting an O-ring (56) to the inside of the bolt portion having a hanging projection(42a) and **coupling** with an elastic fitting portion (52) to be bent at the fixed angle, a second **pipe** bend(60) formed by inserting an O-ring to a **coupling** portion having a

hanging projection to the other side of the first **pipe** bend and **coupling** with an elastic fitting portion to be bent at the fixed angle, and a circular **pipe** bend(70) formed by inserting an O-ring to a **coupling** portion having a hanging projection to the other end of the second **pipe** bend and **coupling** with an elastic fitting portion to be bent in a circle, wherein the control valve is placed at the appointed part on the circumference of the **coupling** socket to regulate the quantity of water supplied to the **faucet** by opening and closing the control valve and to supply cold and hot water or to cut off the water supply easily when replacing or repairing the **faucet**, and each elastic fitting portion is placed to couple the first and second **pipe** bends and the circular **pipe** bend to the bolt portion formed on the rear of the **coupling** socket easily in the one-touch type and coupled to be rotative in any directions of the **pipe** bends to couple and install a **faucet** easily regardless of the direction of a connecting **pipe** fitted to the other end of the circular **pipe** bend in a limited space.

16/17 © EPODOC / EPO
 PN - [GB943208](#) A 19631204
 PR - US19590797938 19590309
 AP - GB19600008401 19600309
 DT - **
 CCI - [E03C1/08](#) ; [E03C1/084](#) ;
[F16C11/06](#) ; [F16L27/073](#) ;
[B05B15/654](#)
 CCA - [E03C2001/082](#) ;
[F16C2361/00](#)
 PA - SHAMES HAROLD;SIDNEY



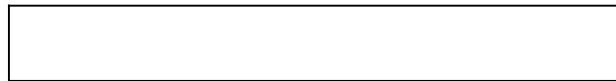
JOSEPH SHAMES

- TI - Improvements in or relating to liquid-flow ball-joint connectors
- AB - 943,208. **Pipe** joints. H. SHAMES, and S. J. SHAMES. March 9, 1960 [March 9, 1959], No. 8401/60. Heading F2G. [Also in Division B1] A ball connector 10 for connection to a liquid, flow-restricting, discharge device comprises a bored ball 34, or a hollow ball 176 having inlet and outlet apertures 174, 178, and an annular **coupling nut** 56 which receives the ball so as to permit relative pivotal movement between them, the **nut** having rigid circular means, e.g. a shoulder 66 or a split- **ring**, at or near one of its ends for firmly engaging the ball so that the portion of the ball of greatest dimension is disposed between the ends of the **coupling nut**. The latter has an internal circumferential groove 62 containing a sealing **ring** 64 arranged to engage the ball on a peripheral circle located between the equatorial plane of the ball and the circular area of contact between the ball and the circular means on the **nut**. As shown in Fig. 1, a **coupling** part 40 for connection to a **faucet** includes a part 42 screwed into the bore 38 of the ball 34, a fluid-tight joint being made by a gasket 44. In modifications, (a) engagement between the ball 106, Fig. 5, and the **nut** 76<1> is afforded by the provision of a split **ring** 90<1> housed in a circumferential groove located outwardly of the groove 62 and the ball is pressed into sealing

relationship with the O- ring
 86<1> by a conical coil
 spring 112, or a washer-type
 spring member 116 having
 inwardly extending and
 resilient radial fingers 128,
 (b) the ball has a stem
 screwed directly into
 a **faucet**, and (c) a hollow ball
 176, Fig. 9, is formed
 integrally with a discharge
 spout.

17/17 © EPODOC / EPO

PN - [CA1044725](#) A 19781219
 PR - CA19760268332 19761221
 AP - CA19760268332 19761221
 DT - *; Rep
 CCI - [E03C1/0404](#) ; [F16L27/0816](#)
 PA - WALTEC IND LTD
 TI - ROTARY **PIPE COUPLING**
 AB - Disclosed is a rotary **pipe coupling** which is particularly useful for connecting a spout to a body of a **faucet**. A known design utilizes a split metal **ring** which is engaged by a **coupling nut**, sealing being effected by an O-**ring**. Pressure surges caused, for example, by solenoid actuated water shutoff valves in dishwashers, can sometimes cause a spout of prior art design to blow out of the body of the **faucet**. The **coupling** of this invention eliminates this problem by providing a **coupling ring** of relatively hard but resilient material such as plastic which has an internal rib which engages with a groove in the spout. The **ring** has a first face which bears against an internal surface on the end of the **pipe** portion to which the spout is connected and a further face which bears against an internal surface on the **coupling nut**.



[SS 12]