

#### Search history

Search 1: FT=(Seal\* and faucet\* and monocontrol\* and coupling\* and hole\* and hoses\* and base\* and wall\*) (Results 2)  
 Search 2: FT=(Seal\* and faucet\* and monocontrol\* ) (Results 23)

#### 1) Family number: 73041021 (WO20014758A1)

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**Title:** FIXING BODY FOR A DUCT COMPONENT FOR A WATER DIVERTER COCK AND FOR TAP COMPONENTS

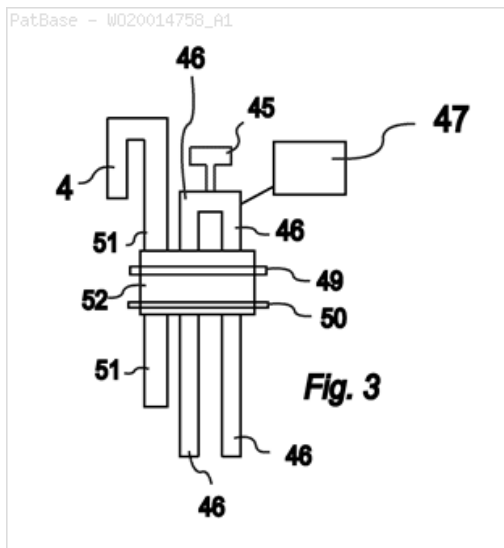
**Abstract:** The present application relates to an improvement affording better operation of not only the hot and cold water mixer tap but also the water diverter cock of the inventions pertaining to patent no. BR 10 2014 008516-5 and application BR 10 2018 008452 6. This solution reduces the number of components and facilitates installation, maintenance and cleaning. The present application pertains to the technical field of building engineering. It envisages a device that combines a water diverter cock (45) of "CONTROLLED FLOW DIVERTER DUCTS" with a tap component (4, 42, 43, 44 and 51) having a tubular segment (46) of "CONTROLLED FLOW DIVERTER DUCTS" which passes upwards through horizontal surfaces, such as sinks, lavatories, toilet seat lids or countertops (29), and returns downwards, having a cock (45) which is located on the upper side of the horizontal surface (29) and which regulates the passage of diverted water. Mono-control and monobloc variants are envisaged.

#### Classifications:

**International (IPC 8-9):** E03C1/044 F16K27/06 (Advanced/Invention)

**International (IPC 1-7):** E03C1/044

**CPC:** E03C1/044



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| BR202018014655 U2  | 20190129         | BR20182014655U     | 20180718         |
| WO20014758 A1      | 20200123         | WO2019BR50264      | 20190710         |

#### Priority:

BR20182014655U 20180718

**Probable Assignee:** PEDRO YOSHITAKA FUKUYAMA

**Assignee(s):** (std): FUKUYAMA PEDRO YOSHITAKA ; PEDRO YOSHITAKA FUKUYAMA

**Inventor(s):** (std): FUKUYAMA PEDRO YOSHITAKA ; PEDRO YOSHITAKA FUKUYAMA

**Agent(s):** VILAGE MARCAS E PATENTES LTDA

**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

#### 2) Family number: 17179042 (ES1024098Y)

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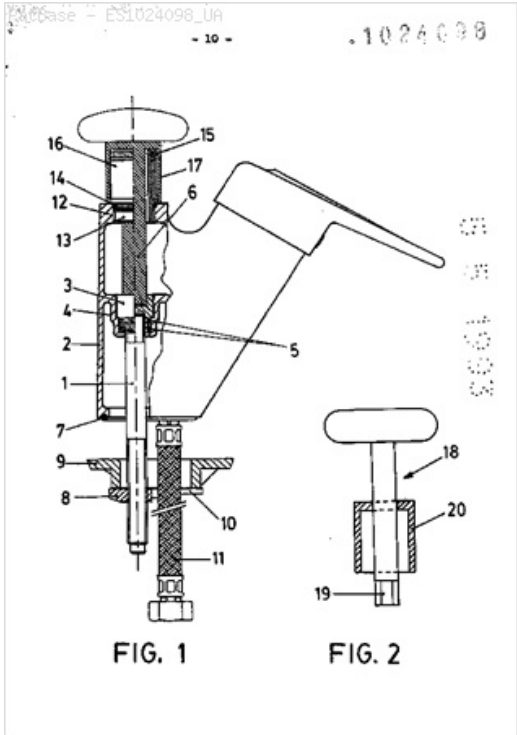
**Title:** DISPOSITIVO DE BLOCAJE PARA GRIFOS MONOMANDO DE FREGADEROS.

**Abstract:** Source: ES1024098U [ES] DISPOSITIVO DE BLOCAJE PARA GRIFOS MONOMANDO DE FREGADEROS, DEL TIPO DE LOS QUE QUEDAN SITUADOS SOBRE LA CARA SUPERIOR DEL FREGADERO Y RETENIDOS MEDIANTE UN ESPARRAGO ROSCADO AL CUERPO DEL GRIFO Y CUYO EXTREMO INFERIOR, DESPUES DE ATRAVESAR LA PARED DEL FREGADERO, QUEDA BLOQUEADO CON UNA TUERCA QUE APRIETA POR INTERMEDIO DE UNA PIEZA DE RIGIDIZACION Y DE OTRA EN FORMA DE HERRADURA PARA PERMITIR QUE ENTRE SUS RAMAS SE SITUEN LOS LATIGUILLOS DE LLEGADA DEL AGUA FRIA Y CALIENTE, CARACTERIZADO PORQUE EL ESPARRAGO ROSCADO (1) SE ANCLA AL CUERPO (2) DEL GRIFO A TRAVES DE UNA PIEZA CILINDRICA (3) SUSCEPTIBLE DE GIRAR EN EL INTERIOR DEL CUERPO (2) Y DEBIDAMENTE APOYADA EN UNA

ARANDELA ANTIFRICCION, SIENDO PORTADORA DE UNAS GARGANTAS ANULARES EXTERNAS DE RECEPCION DE JUNTAS TORICAS (5) DE HERMETICIDAD, TENIENDO SUPERIORMENTE UN VACIADO EXAGONAL PARA INSERCCION DE UNA LLAVE (6, 18) DE ANALOGA SECCION INTRODUCIDAPOR LA ZONA DE CONEXION AL CANO, CON LA PARTICULARIDAD DE QUE LA PIEZA EN HERRADURA (8) SECONSTITUYE EN TUERCA AL TENER ROSCADO EL ORIFICIO DE PASO DEL ESPARRAGO (1), FACILITANDOSE EL CENTRAJE DE LA TUERCA MATERIALIZADA POR LA HERRADURA (8), AL TENER EL ESPARRAGO (1) SU EXTREMO LISO, SIN ROSCAR; TODO EN ORDEN A QUE EL APRIETE DEL GRIFO EN EL MONTAJE DEL MISMO AL FREGADERO, PUEDA EFECTUARSE CON LA LLAVE DE BLOCAJE CORRESPONDIENTE, DESDE LA PARTE SUPERIOR O EXTERNA DEL FREGADERO. **Machine translation:** Clamping device for mixer taps of sinks, OF THE TYPE THAT ARE LOCATED ON THE UPPER FACE OF THE SINK AND RETAINED BY A THREADED STUD TO THE FAUCET BODY AND WHOSE LOWER END, AFTER PASSING THROUGH THE WALL OF THE SINK, IS LOCKED WITH A NUT TIGHTENING THROUGH A STIFFENING PIECE AND ANOTHER IN THE SHAPE OF A HORSESHOE TO ALLOW BETWEEN ITS BRANCHES ARE PLACED THE ARRIVAL OF HOT AND COLD WATER, characterized in that the stud (1) is anchored to the body (2) of the faucet THROUGH A cylindrical part (3) rotatable inside the body (2) and properly supported in an antifriction washer, BEING CARRIER A External annular grooves FOR RECEIVING O-rings (5) sealing, HAVING SUPERIORLY A hexagonal recess for insertion of a key (6, 18) OF SIMILAR SECTION TO THE CONNECTION AREA OF THE INTRODUCIDAPOR, WITH THE PARTICULARITY THAT THE PIECE HORSESHOE (8) Having threaded nut SECONSTITUYE IN THE hole of the stud (1), FACILITATING THE CENTERING OF THE materialized by the horseshoe (8) Nut, having the stud (1) its end smooth, without threading; ALL IN ORDER THAT THE TIGHTENING OF THE TAP IN THE MOUNTING THEREOF TO THE SINK, CAN BE CARRIED OUT WITH THE CORRESPONDING LOCKING KEY, FROM THE TOP OR OUTER SURFACE OF THE SINK.

**Classifications:**

**International (IPC 8-9):** F16K5/08 (Advanced/Invention);  
F16K5/00 (Core/Invention)  
**International (IPC 1-7):** F16K5/08



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| ES1024098 UA       | 19930801         | ES19930000751U     | 19930322         |
| ES1024098 Y1       | 19940416         | ES19930000751U     | 19930322         |
| ES1024098 YA       | 19940416         | ES19930000751U     | 19930322         |

**Priority:**

ES19930000751U 19930322

**Probable Assignee:**

CASPRO S A

**Assignee(s): (std):**

CASPRO S A ; CASPRO SA

**Inventor(s): (std):**

TRES CASAS ; TRES CASAS DANIEL

**3) Family number: 17158054 (ES1021784Y)**

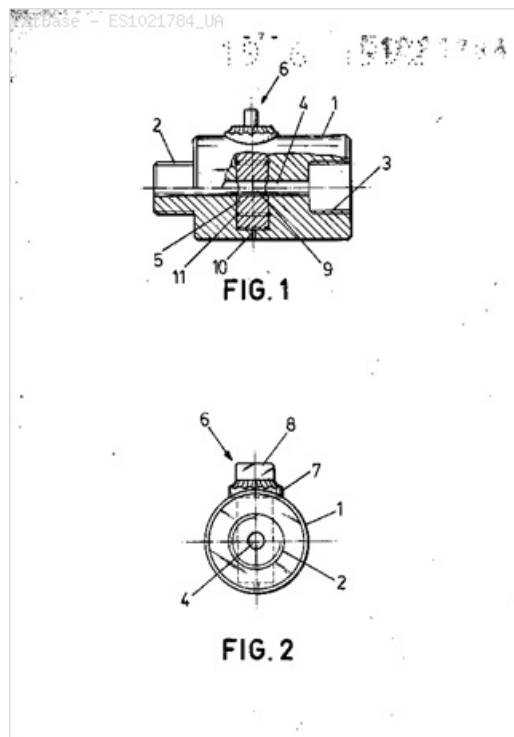
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**Title:** DISPOSITIVO MONOMANDO PARA REGULACION DE CAUDAL.

**Abstract:** Source: ES1021784U [ES] DISPOSITIVO MONOMANDO PARA REGULACION DE CAUDAL, CON EL QUE SE PERMITE UNIFICAR LOS CAUDALES INDEPENDIENTES DE AGUA CALIENTE Y FRIA QUE PASAN A TRAVES DE LA RESPECTIVA LLAVE DE PASO, DIRIGIENDOSE A UN CONDUCTO COMUN DE SALIDA, EN EL QUE QUEDA INTERCALADO DICHO DISPOSITIVO, CARACTERIZADO PORQUE ESTA CONSTITUIDO POR UN CUERPO CILINDRICO (1) CON UNA PROLONGACION AXIAL ROSCADA (2) EN UNO DE SUS EXTREMOS Y CON UN ACOPLAMIENTO (3) EN EL OTRO, AL OBJETO DE QUE PUEDA SER INTERCALADO EN EL CONDUCTO DE SALIDA DE AGUA Y POR CONTAR CON UN ORIFICIO AXIAL (4) DE PASO; INCORPORANDO ESTE CUERPO (1), EN UN ORIFICIO DIAMETRAL CIEGO DEL MISMO, EL CORRESPONDIENTE CILINDRO GIRATORIO (5) CON EL ORIFICIO TRANSVERSAL INTERNO (9) DE PASO DE LIQUIDO, ASI COMO CON UN MANDO (6) DE ACCIONAMIENTO. **Machine translation:** Mixing device for regulating the flow rate, which allows you to unify the separate FLOW RATES OF HOT AND COLD WATER PASSING THROUGH THE RESPECTIVE stopcock, SPEAKING TO A COMMON outlet duct, IN WHICH IS interposed said device, characterized in that it is constituted by a cylindrical body (1) WITH AN AXIAL extension of the threaded rod (2) AT ONE END AND WITH A coupling (3) ON THE OTHER, IN ORDER THAT IT CAN BE INSERTED IN THE OUTLET DUCT OF WATER AND BY HAVING AN AXIAL hole (4) STEP; (1), IN THIS BODY INCORPORATING A DIAMETRICAL HOLE blind, the corresponding rotating cylinder (5) WITH THE TRANSVERSE hole (9) Liquid, AS WELL AS A knob (6) drive.

**Classifications:**

**International (IPC 8-9):** G05G7/12 (Advanced/Invention);  
G05G7/00 (Core/Invention)  
**International (IPC 1-7):** G05G7/12



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| ES1021784 UA       | 19930316         | ES19920001961U     | 19920619         |
| ES1021784 Y1       | 19930801         | ES19920001961U     | 19920619         |
| ES1021784 YA       | 19930801         | ES19920001961U     | 19920619         |

#### Priority:

ES19920001961U 19920619

**Probable Assignee:** CORREDERA LAIN JOSE MAURICIO

**Assignee(s):** (std): CORREDERA LAIN JOSE MAURICIO

#### 4) Family number: 15699084 (US6370711B)

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**Title:** ASSEMBLY FOR WASHSTAND

**Abstract:** Assembly for washstand, with different mounting options obtained through combinations of deep or shallow basins, straight or cut-out countertops and supported on legs or on a stand, as well as for free-standing basins. Its basic functional elements are the basin proper, with the configuration of a shell with spherical surface, deep ( 1 ) or shallow ( 2 ); and the planar countertop, with several possible configurations of its front edge. The support legs ( 7 ) are cylindrical and tubular, provided with a horizontal cross piece ( 12 ) that is supported against the wall. The countertops are affixed to the wall by means of back supports ( 13 ) of compound profile, that are inserted into lugs ( 8 ) in the lower face of the countertop and are fastened to the wall. If the countertop is cut out, the basin is supported on a central bracket ( 20 ) fastened to the wall by means of a special member ( 22 ); and if the basin is free-standing, it is supported on another similar bracket ( 31 ).

#### Classifications:

**International (IPC 8-9):** A47K1/05 E03C1/14 E03C1/18

E03C1/32 (Advanced/Invention);

A47K1/00 E03C1/12 (Core/Invention)

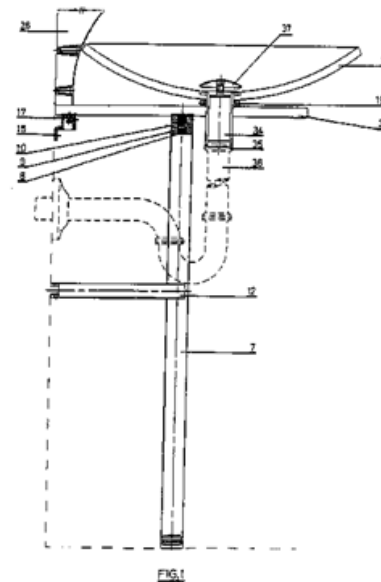
**International (IPC 1-7):** E03C1/14 E03C1/18 E03C1/32 E03C1/326

**CPC:** A47K1/05 E03C1/14 E03C1/32

**European:** A47K1/05 E03C1/14 E03C1/32

**US:** 4/646 4/648

**Locarno class:** 46/46

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CA2341826 AA       | 20011005         | CA20012341826      | 20010321         |
| EP1143079 A1       | 20011010         | EP20000500056      | 20000405         |
| SG91350 A1         | 20020917         | SG20010001785      | 20010321         |
| US6370711 BA       | 20020416         | US20000632124      | 20000803         |

**Priority:**

EP20000500056 20000405 CA20012341826 20010321

**Probable Assignee:** IBERGESFER SL

**Assignee(s):** (std): IBERGESFER S L

**Assignee(s):** IBERGESFER SL ; IBERGESFER SL CTRA BRACELON ; FERRER BELTRAN JOSE MARIA

**Inventor(s):** (std): FERRER BELTRAN JOSE M ; FERRER BELTRAN JOSE MA ; FERRER BELTRAN JOSE MARIA ; JOSE MARIA FERRER BELTRAN

**Inventor(s):** JOSE MA FERRER BELTRAN

**Agent(s):** SEABY AND ASSOCIATES; LACKENBACH SIEGEL

**Designated states:** AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

**5) Family number: 73838095 (WO19063856A1)**

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**Title:** SINGLE-LEVER SMART CARTRIDGE FOR A TAP FITTING, SINGLE-LEVER SMART TAP FITTING AND METHOD OF SMART MANAGEMENT FOR A SINGLE-LEVER TAP FITTING

**Abstract:** The present invention provides a smart monocontrol cartridge for taps, a smart tap that incorporates said cartridge, and a smart system that incorporates said tap, the monocontrol cartridge comprising a base (3) with a lower end (34), an upper end (35) for coupling to ceramic discs (4) and an intermediate portion (36) in which a recess (3R) is defined in which an electronic module (8) is coupled that is configured to house indirect temperature detection means (9) configured to detect the temperature in the mixed water channel and electronic means configured to calculate the real temperature in the mixed water channel based on an indirect temperature detection, the indirect temperature detection means being in data communication with the electronic means; and wherein a flexible cable (11) is coupled between the electronic module and a cam (7).

**Classifications:**

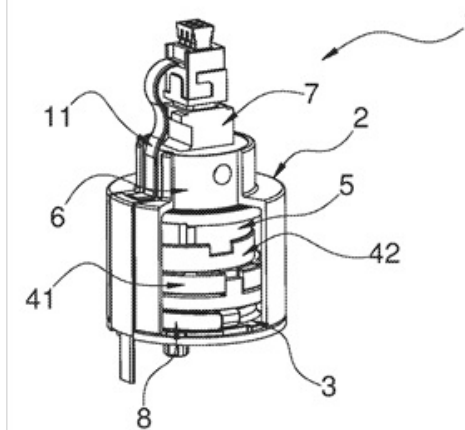
**International (IPC 8-9):** E03C1/04 F16K11/078 F16K27/04

F16K31/60 F16K37/00 G01K1/14 H01H3/02 (Advanced/Invention)

**CPC:** F16K11/0787 F16K27/044 F16K31/605 F16K31/607 F16K37/005

G01K1/143 G01K13/02 H01H3/0206 H01H3/42

FIG. 1

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU2017434343 AA    | 20190404         | AU20170434343      | 20170929         |
| AU2017434343 AA    | 20200326         | AU20170434343      | 20170929         |
| WO19063856 A1      | 20190404         | WO2017ES70641      | 20170929         |

**Priority:**

WO2017ES70641 20170929

**Probable Assignee:** I COMPONENTS STUDIO S L**Assignee(s):** (std): I COMPONENTS STUDIO S L**Assignee(s):** I COMPONENTS STUDIO SL**Inventor(s):** (std): RECIO FERNANDEZ DIEGO ; LOPEZ RODRIGUEZ DANIEL**Agent(s):** WRAYS PTY LTD; ISERN JARA JORGE

**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

**6) Family number: 29373148 (ES1021864Y)**

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**Title:** MONOMANDO DE UNA SOLA TOMA.

**Abstract:** Source: ES1021864U [ES] MONOMANDO DE UNA SOLA TOMA, CARACTERIZADO POR PRESENTAR LA ENTRADA DE AGUA FRIA Y CALIENTE, JUNTAS EN UNA PROLONGACION PREVISTA PARA TAL EFECTO, HALLANDOSE DICHAS ENTRADAS PROXIMAS ENTRE SI Y PROVISTAS DE JUNTA DE ESTANQUEIDAD, A LA VEZ QUE, ALREDEDOR DEL SALIENTE PORTADOR DE DICHAS ENTRADAS, SE ENCUENTRA UNA TUERCA LOCA, PROVISTA DE ROSCA INTERIOR, QUE PUEDE HACER TOPE CONTRA UN DISCO ANULAR FIJO A LA PARTE EXTERNA DEL SALIENTE CITADO. **Machine translation:** A single mixer, CHARACTERIZED BY THE ENTRY OF HOT AND COLD WATER, TOGETHER IN AN EXTENSION PROVIDED FOR THIS PURPOSE, said inlets being found close TOGETHER AND PROVIDED WITH SEAL, WHILE AT THE SAME TIME, AROUND THE PROJECTION CARRIER OF SAID inputs, IS A NUT, provided with internal thread, WHICH CAN ABUT AGAINST AN ANNULAR DISC FIXED TO THE OUTER PART OF THE protrusion.

**Classifications:****International (IPC 8-9):** F16K11/14 (Advanced/Invention);

F16K11/10 (Core/Invention)

**International (IPC 1-7):** F16K11/14**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| ES1021864 UA       | 19930216         | ES19920002126U     | 19920616         |
| ES1021864 Y1       | 19930701         | ES19920002126U     | 19920616         |
| ES1021864 YA       | 19930701         | ES19920002126U     | 19920616         |

**Priority:**

ES19920002126U 19920616

**Probable Assignee:** METOBAL SA**Assignee(s):** METOBAL S A ; METOBAL SA**Inventor(s):** ROMERO JURADO CRISTOBAL**7) Family number: 34637183 (ES1030985Y)**

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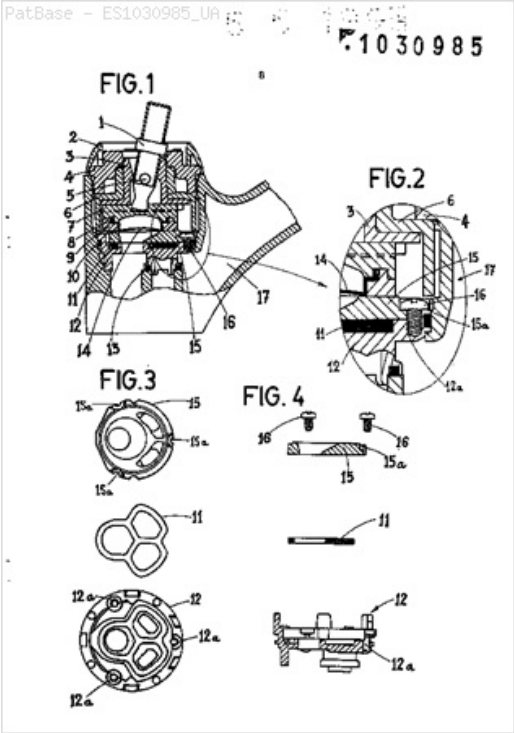
**Title:** DISPOSITIVO DE AJUSTE ESTANCO EN CARTUCHOS MONOMANDO PARA MEZCLADORES DE AGUA CALIENTE Y FRIA.

**Abstract:** Source: ES1030985U [ES] DISPOSITIVO DE AJUSTE ESTANCO EN CARTUCHOS MONOMANDO PARA MEZCLADORES DE AGUA CALIENTE Y FRIA, ESPECIALMENTE PARA CARTUCHOS QUE COMPRENDEN UNA PIEZA MOVIL

PROVISTA DE UNA CAVIDAD DISTRIBUIDORA Y MEZCLADORA DEL AGUA CALIENTE Y FRIA A LA QUE VA INCORPORADO UN DISCO QUE SE MUEVE AL MISMO TIEMPO QUE LA PIEZA ANTERIOR, DOTADO DE UNA ABERTURA CORRESPONDIENTE AL CONITORNO DE LA CAVIDAD DESCRITA; LA PIEZA CON LA CAVIDAD Y EL DISCO CITADOS SON ACCIONADOS MEDIANTE UNA PALANCA OSCILANTE Y GIRATORIA AL MISMO TIEMPO; EL DISCO MOVIL ESTA SUPERPUERTO A UN SEGUNDO DISCO FIJO CON ABERTURAS DE ENTRADA DE AGUA CALIENTE Y FRIA Y UNA ABERTURA DE SALIDA; LA PIEZA CON LA CAVIDAD Y LOS DISCOS ESTAN MONTADOS EN EL INTERIOR DE UN CUERPO ENVOLVENTE SEMEJANTE A UN CAPUCHON CON UN CUELLO SUPERIOR EN EL QUE ESTA MONTADO UN CASQUILLO CON UN ALA RADIAL EXTERNA APOYADA SOBRE LA PIEZA DOTADA DE LA CAVIDAD DISTRIBUIDORA Y EN EL QUE VA ARTICULADO MEDIANTE UNA ROTULA O DISPOSITIVO SIMILAR, UN VASTAGO OSCILANTE UNIDO A LA PALANCA DE MANDO; EL CAPUCHON ES PRESIONADO POR UNA PIEZA SEMEJANTE A UNA TUERCA ATORNILLADA EN LA MONTURA DE UN GRIFO DE FORMA QUE EL CAPUCHON TRANSMITE LA PRESION AL CASQUILLO, ESTE A LA PIEZA CON LA CAVIDAD DISTRIBUIDORA Y ESTA A LOS DISCOS, DE LOS CUALES EL FIJO ESTA ASENTADO EN UNA PIEZA BASE INFERIOR, QUEDANDO EL CONJUNTO ALOJADO EN UNA CAMARA DEL CUERPO DE UN GRIFO, DISPONIENDOSE ENTRE LOS COMPONENTES DESCRITOS DIVERSAS UNTAS O ANILLOS DE ESTANQUEIDAD, CARACTERIZADO POR EL HECHO DE QUE EL DISCO FIJO ESTA UNIDO A LA PIEZA BASE INFERIOR CON MEDIOS DE ANCLAJE A PRESION, INDEPENDIENTES RESPECTO AL RESTO DE COMPONENTES FIJOS Y MOVILES DEL CARTUCHO.

**Machine translation:** Adjusting device sealed cartridges mixer for mixing hot and cold water, ESPECIALLY FOR CARTRIDGES COMPRISING A MOVABLE PART PROVIDED WITH A DISTRIBUTION CAVITY AND HOT AND COLD WATER MIXER TO WHICH IS INCORPORATED A DISK THAT IS MOVED AT THE SAME TIME AS THE PREVIOUS PIECE, PROVIDED WITH AN OPENING CORRESPONDING TO THE CONTOUR OF THE CAVITY described; THE PART WITH THE CAVITY AND THE cited are driven by an oscillating LEVER AND ROTATABLE DISK AT THE SAME TIME; THE MOVABLE DISK IS superimposed to a second fixed disk with inlet openings for HOT AND COLD WATER AND AN OUTLET OPENING; THE PART WITH THE CAVITY AND THE DISKS ARE MOUNTED ON THE INSIDE OF A HOUSING SIMILAR TO A CAP WITH AN UPPER NECK IN WHICH IS MOUNTED A CAP WITH AN OUTER RADIAL WING SUPPORTED ON THE PART PROVIDED WITH THE CAVITY AND IN THE DISTRIBUTOR THAT IS ARTICULATED BY A BALL JOINT OR SIMILAR DEVICE, A rod attached to the oscillating lever; the CAP IS PRESSED BY A PART SIMILAR TO A NUT SCREWED ONTO THE FRAME OF A TAP SO THAT THE CAP transmits the pressure to the bushing, THIS TO THE PART WITH THE CAVITY AND IS FIXED DISKS, WHICH IS SEATED IN A LOWER BASE PART, leaving the assembly housed IN A CHAMBER OF THE BODY OF A faucet, arranged between The components described various UNTAS OR SEAL RINGS, CHARACTERIZED BY THE FACT THAT THE FIXED DISK IS ATTACHED TO THE LOWER BASE PART WITH ANCHORING MEANS TO PRESSURE, INDEPENDENT FROM THE REST OF FIXED AND MOBILE COMPONENTS OF THE CARTRIDGE.

**Classifications:**  
**International (IPC 8-9):** F16K11/00 F16K25/00 (Advanced/Invention);  
F16K11/00 F16K25/00 (Core/Invention)  
**International (IPC 1-7):** F16K11/00 F16K25/00



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| ES1030985 UA       | 19951101         | ES19950001191U     | 19950505         |
| ES1030985 Y1       | 19960501         | ES19950001191U     | 19950505         |
| ES1030985 YA       | 19960501         | ES19950001191U     | 19950505         |

**Priority:**

ES19950001191U 19950505

**Probable Assignee:** SOLER IND

**Assignee(s):** (std): SOLER IND

**Assignee(s):** INDUSTRIAS RAMON SOLER S A ; INDUSTRIAS RAMON SOLER SA

**Inventor(s):** (std): SOLER FORNT RAMON

**8) Family number: 34637184 (ES1030986Y)**

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**Title:** DISPOSITIVO DE AJUSTE ESTANCO EN CARTUCHOS MONOMANDO PARA MEZCLADORES DE AGUA CALIENTE Y FRIA.

**Abstract:** Source: ES1030986U [ES] DISPOSITIVO DE AJUSTE ESTANCO EN CARTUCHOS MONOMANDO PARA MEZCLADORES DE AGUA CALIENTE Y FRIA, ESPECIALMENTE PARA CARTUCHOS QUE COMPRENDEN UNA PIEZA MOVIL PROVISTA DE UNA CAVIDAD DISTRIBUIDORA Y MEZCLADORA DEL AGUA CALIENTE Y FRIA A LA QUE VA INCORPORADO UN DISCO QUE SE MUEVE AL MISMO TIEMPO QUE LA PIEZA ANTERIOR, DOTADO DE UNA ABERTURA CORRESPONDIENTE AL CONITORNO DE LA CAVIDAD DESCRITA; LA PIEZA CON LA CAVIDAD Y EL DISCO CITADOS SON ACCIONADOS MEDIANTE UNA PALANCA OSCILANTE Y GIRATORIA AL MISMO TIEMPO; EL DISCO MOVIL ESTA SUPERPUERTO A UN SEGUNDO DISCO FIJO CON ABERTURAS DE ENTRADA DE AGUA CALIENTE Y FRIA Y UNA ABERTURA DE SALIDA; LA PIEZA CON LA CAVIDAD Y LOS DISCOS ESTAN MONTADOS EN EL INTERIOR DE UN CUERPO ENVOLVENTE SEMEJANTE A UN CAPUCHON CON UN

CUELLO SUPERIOR EN EL QUE ESTA MONTADO UN CASQUILLO CON UN ALA RADIAL EXTERNA APOYADA SOBRE LA PIEZA DOTADA DE LA CAVIDAD DISTRIBUIDORA Y EN EL QUE VA ARTICULADO MEDIANTE UNA ROTULA O DISPOSITIVO SIMILAR, UN VASTAGO OSCILANTE UNIDO A LA PALANCA DE MANDO; EL CAPUCHON ES PRESIONADO POR UNA PIEZA SEMEJANTE A UNA TUERCA ATORNILLADA EN LA MONTURA DE UN GRIFO DE FORMA QUE EL CAPUCHON TRANSMITE LA PRESION AL CASQUILLO, ESTE A LA PIEZA CON LA CAVIDAD DISTRIBUIDORA Y ESTA A LOS DISCOS, DE LOS CUALES EL FIJO ESTA ASENTADO EN UNA PIEZA BASE INFERIOR, QUEDANDO EL CONJUNTO ALOJADO EN UNA CAMARA DEL CUERPO DE UN GRIFO, DISPONIENDOSE ENTRE LOS COMPONENTES DESCRITOS DIVERSAS JUNTAS O ANILLOS DE ESTANQUEIDAD, CARACTERIZADO ESENCIALMENTE POR EL HECHO DE QUE EL CANTO INFERIOR DE LA PIEZA EN FORMA DE CAPUCHON PRESIONA EL DISCO FIJO CONTRA LA PIEZA BASE CON INTERPOSICION DE UNA JUNTA DE ESTANQUEIDAD, SIENDO MAYOR ESTA PRESION QUE LA QUE EJERCE EL MISMO CAPUCHON SOBRE LA PIEZA CON LA CAVIDAD DISTRIBUIDORA.

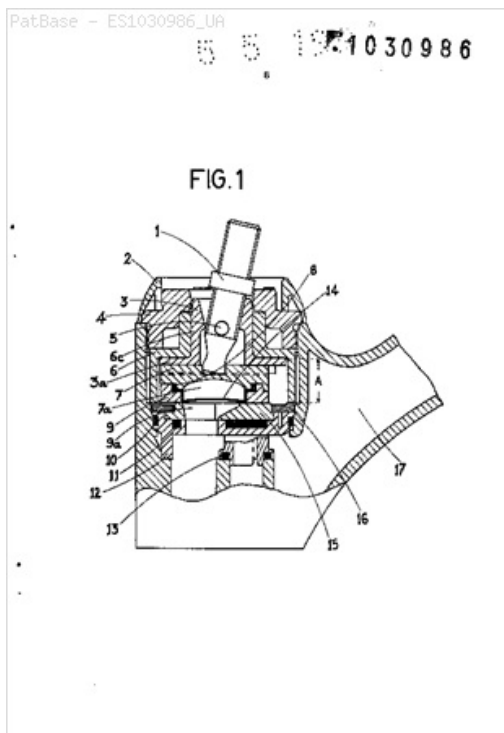
**Machine translation:** Adjusting device sealed cartridges mixer for mixing hot and cold water, ESPECIALLY FOR CARTRIDGES COMPRISING A MOVABLE PART PROVIDED WITH A DISTRIBUTION CAVITY AND HOT AND COLD WATER MIXER TO WHICH IS INCORPORATED A DISK THAT IS MOVED AT THE SAME TIME AS THE PREVIOUS PIECE, PROVIDED WITH AN OPENING CORRESPONDING TO THE CONTOUR OF THE CAVITY described; THE PART WITH THE CAVITY AND THE cited are driven by an oscillating LEVER AND ROTATABLE DISK AT THE SAME TIME; THE MOVABLE DISK IS superimposed to a second fixed disk with inlet openings for HOT AND COLD WATER AND AN OUTLET OPENING; THE PART WITH THE CAVITY AND THE DISKS ARE MOUNTED ON THE INSIDE OF A HOUSING SIMILAR TO A CAP WITH AN UPPER NECK IN WHICH IS MOUNTED A CAP WITH AN OUTER RADIAL WING SUPPORTED ON THE PART PROVIDED WITH THE CAVITY AND IN THE DISTRIBUTOR THAT IS ARTICULATED BY A BALL JOINT OR SIMILAR DEVICE, A rod attached to the oscillating lever; the CAP IS PRESSED BY A PART SIMILAR TO A NUT SCREWED ONTO THE FRAME OF A TAP SO THAT THE CAP transmits the pressure to the bushing, THIS TO THE PART WITH THE CAVITY AND IS FIXED DISKS, WHICH IS SEATED IN A LOWER BASE PART, leaving the assembly housed IN A CHAMBER OF THE BODY OF A faucet, arranged between The components described various gaskets or sealing rings, characterized ESSENTIALLY BY THE FACT THAT THE BOTTOM EDGE OF THE WORKPIECE IN THE FORM OF CAP PRESSES THE FIXED DISK AGAINST THE BASE PART WITH THE INTERPOSITION OF A SEAL, THIS PRESSURE BEING GREATER THAN THAT EXERTED BY THE SAME ON THE WORKPIECE WITH THE CAVITY DISTRIBUTOR CAP.

#### Classifications:

**International (IPC 8-9):** F16K11/00 F16K25/00 (Advanced/Invention);

F16K11/00 F16K25/00 (Core/Invention)

**International (IPC 1-7):** F16K11/00 F16K25/00



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| ES1030986 UA       | 19951101         | ES19950001192U     | 19950505         |
| ES1030986 Y1       | 19960501         | ES19950001192U     | 19950505         |
| ES1030986 YA       | 19960501         | ES19950001192U     | 19950505         |

#### Priority:

ES19950001192U 19950505

**Probable Assignee:** SOLER IND

**Assignee(s):** (std): SOLER IND

**Assignee(s):** INDUSTRIAS RAMON SOLER S A ; INDUSTRIAS RAMON SOLER SA

**Inventor(s):** (std): SOLER FORNT RAMON

**9) Family number:** 32839211 (US2007261738A)

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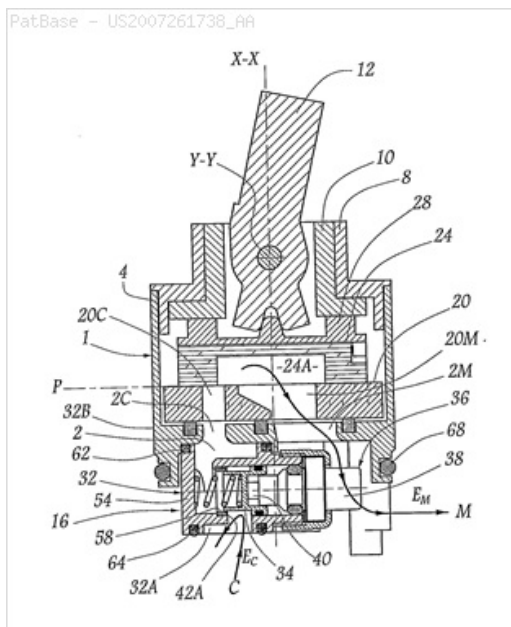
**Title:** CARTRIDGE FOR A MIXER FAUCET, FAUCET COMPRISING A CARTRIDGE OF THIS TYPE, AND THERMOSTATIC ASSEMBLY TO BE FITTED TOGETHER WITH THIS CARTRIDGE

**Abstract:** The cartridge comprises two ceramic disks (20, 24) for regulating the temperature and flow of a mixture (M) of two entering fluids. In order to ensure that the temperature of the mixture remains lower than a predetermined value, the cartridge comprises thermostatic means (16) designed for, in the event of a high-temperature mixture, automatically shutting off, upstream from these disks, the circulation of the entering fluid (C) of the highest temperature. In order to limit their size, these means comprise: a closure element (34), which serves to close a passage (56) of the fluid (C) having the highest temperature and which is delimited by the cartridge, and; a thermostatic element (36) including a thermosensitive part (38) placed along the flow path of the mixture and a mobile part (40) connected in translation to the closure element, said closure element being mounted in a manner that enables it to slide in an area (42 A) of the passage of the fluid of the highest temperature, with the interposition of a packing seal (58), which is joined to this area and which, when the temperature of the mixture is greater than the predetermined value, is capable of forming a sliding tight contact with the closure element.

#### Classifications:

**International (IPC 8-9):** E03C1/044 F16K11/00 F16K17/38

G05D23/13 G05D23/185 (Advanced/Invention);  
E03C1/04 F16K11/00 F16K17/36 G05D23/01 (Core/Invention)  
**CPC:** E03C1/041 F16K11/0787 F16K17/38 F16K31/002 G05D23/1353  
Y10T137/7737 Y10T137/86549 Y10T137/86815 Y10T137/86823  
**European:** G05D23/13B4D  
**US:** 137/468 137/625.17 137/625.4 137/625.41 236/100 236/12.1  
236/12.11 236/12.13 236/12.14 236/12.15 236/12.16 236/12.17  
236/12.2 236/12.21 236/12.22 236/12.23 236/93.00A 236/93A  
236/99.00J 236/99.00R 236/99J 236/99R



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU2005293445 AA    | 20060420         | AU20050293445      | 20051007         |
| BRPI0516254 A      | 20080826         | BR2005PI16254      | 20051007         |
| CN101035954 A      | 20070912         | CN200580034147     | 20051007         |
| CN101035954 B      | 20101229         | CN200580034147     | 20051007         |
| EP1797248 A1       | 20070620         | EP20050804719      | 20051007         |
| EP1797248 B1       | 20160420         | EP20050804719      | 20051007         |
| FR2876433 A1       | 20060414         | FR20040010657      | 20041008         |
| FR2876433 B1       | 20080425         | FR20040010657      | 20041008         |
| RU2007116952 A     | 20081120         | RU20070116952      | 20051007         |
| RU2379432 C2       | 20100120         | RU20070116952      | 20051007         |
| US2007261738 AA    | 20071115         | US20050664819      | 20051007         |
| US7845574 BB       | 20101207         | US20050664819      | 20051007         |
| WO06040456 A1      | 20060420         | WO2005FR02479      | 20051007         |

#### Priority:

FR20040010657 20041008 WO2005FR02479 20051007

#### Probable Assignee: VERNET

**Assignee(s):** (std): MACE CHRISTIAN ; VERNE ; VERNET ; VERNET SA SA

**Assignee(s):** VERNET SA SOCIETE ANONYME ; VERNET SOC ANONYME SA

**Inventor(s):** (std): MAS KRISTIAN ; CHRISTIAN MACE ; MACE CHRISTIAN

**Agent(s):** WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; GRAND GUILLAUME; CABINET LAVOIX LYON; RALPH A DOWELL OF DOWELL AND DOWELL PC; DOWELL AND DOWELL PC

**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 KP KR KZ LC LI 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

#### 10) Family number: 14308270 (FR2766896A)

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**Title:** Single control mixer tap with central cam control

**Abstract:** The tap consists of two taps placed symmetrically about a central control cam (13) which, on rotating about a shaft (13), alternately controls the flow from each of the taps. Also the vertical movement of the cam (13) on the shaft (12) controls the maximum opening of the taps. Each tap is provided with a seal (9) downstream of the closing poppet (2) of the valve which co-operates with a slot (6) to close it. A single tap version is also claimed.

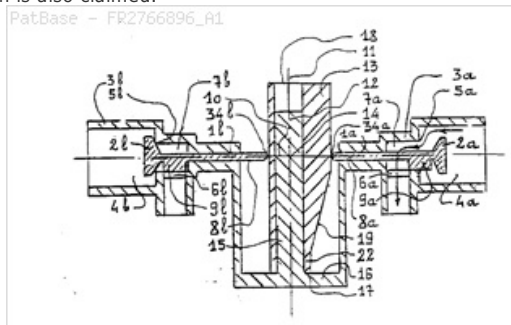
#### Classifications:

**International (IPC 8-9):** E03C1/242 F16K11/14 (Advanced/Invention);  
E03C1/12 F16K11/10 (Core/Invention)

**International (IPC 1-7):** F16K11/14 F16K21/18 F16K31/143

**CPC:** E03C1/242 F16K11/14

**European:** E03C1/242 F16K11/14



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| FR2766896 A1       | 19990205         | FR19970009901      | 19970801         |
| FR2766896 B1       | 19991029         | FR19970009901      | 19970801         |

**Priority:**

FR19970009901 19970801

**Probable Assignee:**

PIAT MOISE

**Assignee(s):** (std):

PIAT MOISE

**Inventor(s):** (std):

PIAT MOISE

**11) Family number: 34656325 (ES1039372Y)**

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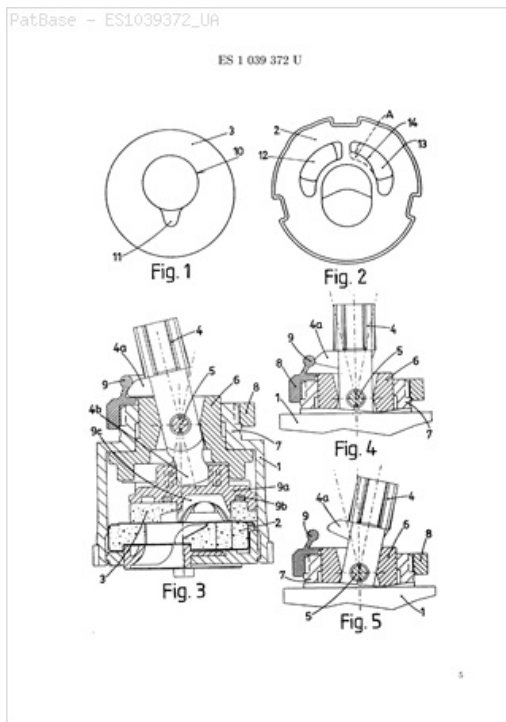
**Title:** VALVULA MEZCLADORA MONOMANDO DE CAUDAL REDUCIDO Y AHORRO DE AGUA CALIENTE.

**Abstract:** Source: ES1039372U [ES] 1. VALVULA MEZCLADORA MONOMANDO DE CAUDAL REDUCIDO Y AHORRO DE AGUA CALIENTE, DEL TIPO QUE COMPORTA DOS DISCOS DE MATERIAL CERAMICO, SUPERPUESTOS Y ADAPTADOS UNO CONTRA OTRO, SIENDO UNO DE ELLOS FIJO Y EL OTRO MOVIL Y PASANTE Y UNA TAPA SOLIDARIA AL DISCO MOVIL ACCIONADA POR LA MANETA DEL GRIFO QUE COMPORTA ADEMAS UN TOPE DE POSICIONAMIENTO CORRESPONDIENTE A UN CAUDAL REDUCIDO, DE APROXIMADAMENTE 50 percent, SUPERABLE A VOLUNTAD DEL USUARIO, CARACTERIZADA PORQUE EL ORIFICIO DE ENTRADA DE AGUA CALIENTE DEL DISCO FIJO TIENE REDUCIDA SU SUPERFICIE EN UNA PORCION DE SEGMENTO CIRCULAR RESPECTO A LA SUPERFICIE DE ENTRADA DEL AGUA FRIA. **Machine translation:** 1. Reduced flow mixer mixing valve and saving of hot water, of the type comprising two disks of ceramic material, superposed and adapted against each other, one being fixed and the other mobile and through hole and a cover integral with the movable disk driven by the handle of the faucet that also implies a positioning stop corresponding to a reduced flow-rate, about 50 percent, SURMOUNTABLE AT WILL BY THE USER, characterized in that the hot water inlet port of the fixed disk has reduced its surface in a portion of a circular segment relative to the surface of inlet of cold water.

**Classifications:**

**International (IPC 8-9):** F16K11/14 (Advanced/Invention);  
F16K11/10 (Core/Invention)

**International (IPC 1-7):** F16K11/14



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| ES1039372 UA       | 19981201         | ES19980000432U     | 19980216         |
| ES1039372 Y1       | 19990501         | ES19980000432U     | 19980216         |
| ES1039372 YA       | 19990501         | ES19980000432U     | 19980216         |

**Priority:**

ES19980000432U 19980216

**Probable Assignee:** ROCA RADIADORES

**Assignee(s):** (std): ROCA RADIADORES

**Assignee(s):** COMPANIA ROCA RADIADORES S A ; COMPANIA ROCA RADIADORES SA

**Inventor(s):** (std): SINGLA PALACIN JAIME

**12) Family number: 15961347 (US6328059B)**

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**Title:** TOP MOUNTED FAUCET ASSEMBLY

**Abstract:** A faucet apparatus for mounting on sanitary fixtures such as sinks, washbasins or the like, provides simple and quick installation. The apparatus comprises a block portion inserted into a through hole made in the sanitary fixture and is adapted to protrude with a portion thereof above the sanitary fixture. A couple of passages extend through the block and are adapted to be connected below the sanitary fixture to water intake ducts, and above the sanitary fixture for supplying the faucet. The portion of the block portion protruding above the sanitary fixture is fully housed within the body of the faucet. The

apparatus comprises also means for fixing the block portion to the sanitary fixture. The attachment means comprises a fixing member associated with the block and moved from an insertion position in which the fixing member is axially aligned with the hole in the sanitary fixture, and a blocking position in which the fixing member is able to engage the lower surface of the sanitary fixture in which the hole is made.

**Classifications:**

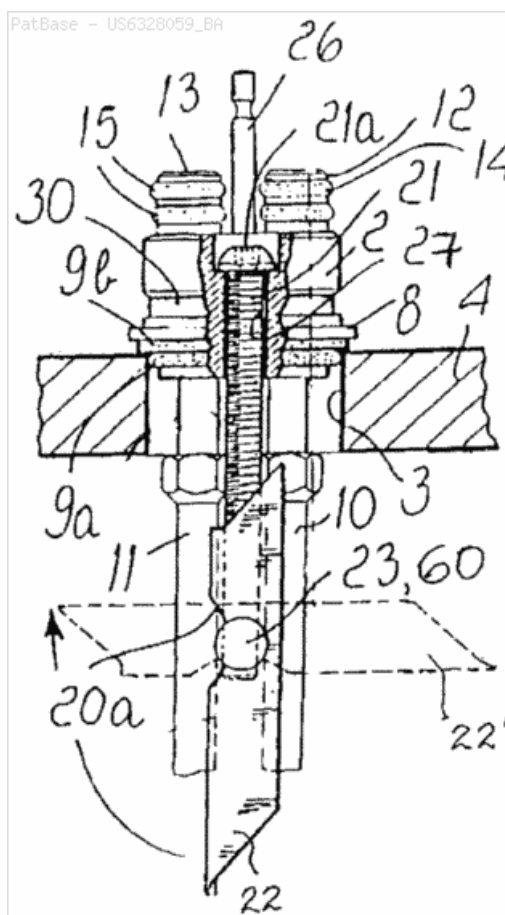
**International (IPC 8-9):** E03C1/04 (Advanced/Invention);  
E03C1/04 (Core/Invention)

**International (IPC 1-7):** E03C1/04

**CPC:** E03C1/0402 E03C1/0401 E03C2001/0416 Y10T137/6014

**European:** E03C1/04B E03C1/04B2 P03C1/04L

**US:** 137/315.12



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| US6328059 BA       | 20011211         | US20000532911      | 20000322         |

**Priority:**

US20000532911 20000322

**Probable Assignee:** ARGO SRL

**Assignee(s):** ARGO SRL ; ARGO SRL VIA PER GOZZANO ; ARGO SRL VIA PER GOZZANOBOLZANO NOVARESE ;  
TESTORI ALESSANDRO ; BROWN SCOTT

**Inventor(s):** (std): BROWN SCOTT ; TESTORI ALESSANDRO

**13) Family number: 34656362 (ES1039523Y)**

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**Title:** VALVULA MEZCLADORA MONOMANDO PARA AHORRO DE AGUA CALIENTE CON CAUDAL REDUCIDO.

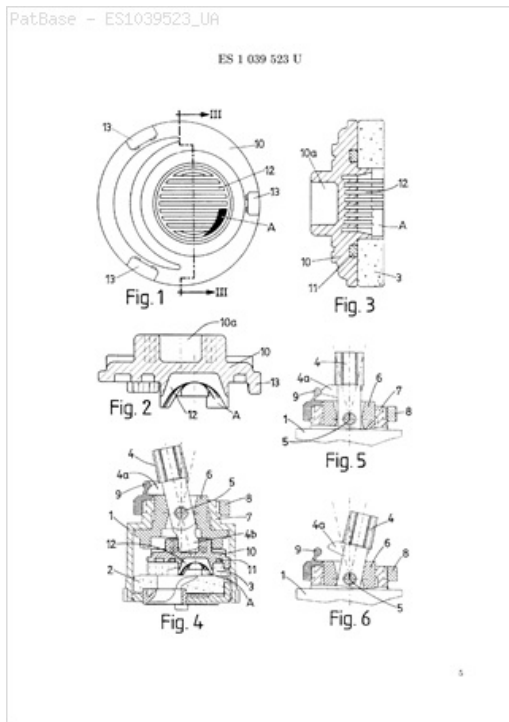
**Abstract:** Source: ES1039523U [ES] 1. VALVULA MEZCLADORA MONOMANDO PARA AHORRO DE AGUA CALIENTE CON CAUDAL REDUCIDO, DEL TIPO QUE COMPORTA DOS DISCOS DE MATERIAL CERAMICO, SUPERPUESTOS Y ADAPTADOS UNO CONTRA OTRO, SIENDO UNO DE ELLOS FIJO Y EL OTRO MOVIL Y PASANTE Y UNA TAPA SOLIDARIA AL DISCO MOVIL ACCIONADA POR LA MANETA DEL GRIFO QUE COMPORTA ADEMAS UN TOPE DE POSICIONAMIENTO CORRESPONDIENTE A UN CAUDAL REDUCIDO, DE APROXIMADAMENTE 50 percent, SUPERABLE A VOLUNTAD DEL USUARIO, CARACTERIZADA PORQUE DICHA TAPA ESTA PROVISTA DE UN RESALTE QUE OBTURA PARTE DE LA CAMARA DE MEZCLA DEL DISCO MOVIL.

**Machine translation:** 1. Mixer MIXING VALVE FOR HOT WATER SAVINGS WITH REDUCED FLOW, OF THE TYPE COMPRISING TWO DISKS OF CERAMIC MATERIAL, SUPERPOSED AND ADAPTED AGAINST EACH OTHER, ONE BEING FIXED AND THE OTHER MOBILE AND THROUGH HOLE AND A COVER INTEGRAL WITH THE MOVABLE DISC DRIVEN BY THE handle of the faucet that also implies a positioning stop CORRESPONDING TO A REDUCED FLOW-RATE, about 50 percent, SURMOUNTABLE AT WILL BY THE USER, characterized IN THAT SAID COVER IS PROVIDED WITH A PROJECTION WHICH CLOSES A PART OF THE MIXING CHAMBER OF THE MOBILE DISK.

**Classifications:**

**International (IPC 8-9):** F16K11/10 (Advanced/Invention);  
F16K11/10 (Core/Invention)

**International (IPC 1-7):** F16K11/10

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| ES1039523 UA       | 19981216         | ES19980000431U     | 19980216         |
| ES1039523 Y1       | 19990501         | ES19980000431U     | 19980216         |
| ES1039523 YA       | 19990501         | ES19980000431U     | 19980216         |

**Priority:**

ES19980000431U 19980216

**Probable Assignee:** ROCA RADIADORES**Assignee(s):** (std): ROCA RADIADORES**Assignee(s):** COMPANIA ROCA RADIADORES S A ; COMPANIA ROCA RADIADORES SA**Inventor(s):** (std): SINGLA PALACIN JAIME**14) Family number: 33253368 (US2006185076A)**

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**Title:** FAUCET ASSEMBLY WITH INTEGRAL WATER SUPPLY SHUT-OFF VALVE

**Abstract:** A faucet apparatus for mounting on sinks, washbasins and the like, is disclosed comprising automatic water supply shut-off valves that allow quick and easy installation or removal of a faucet head assembly on a faucet base mounted within a sink or similar fixture without the need to manually turn the supply lines off and on. The faucet head is removable from the base, which stays attached to the fixture. The shut-off valves are each comprised of a normally-closed valve assembly, and the faucet head has corresponding actuators that engage and open each valve assembly, enabling water flow to the faucet head as it is installed onto the base. The faucet apparatus further comprises an attachment means for mounting the base within a fixture. An alternate embodiment has a base comprising an additional passage for allowing installation of low-voltage conductors and electrical connections to enable features such as automatic faucet actuation.

**Classifications:**

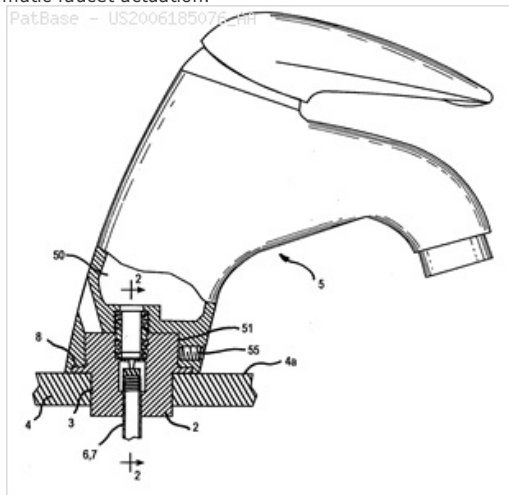
**International (IPC 8-9):** E03C E03C1/04 E03C1/042 E03C1/05 F16K27/00 (Advanced/Invention); E03C1/04 E03C1/042 E03C1/05 F16K27/00 (Core/Invention); E03C (Subclass/Invention)

**International (IPC 1-7):** E03C1/04

**CPC:** E03C1/0401 E03C1/0403 E03C2001/0416 F16K43/005

**European:** E03C1/04B E03C1/04C F16K43/00D P03C1/04L

**US:** 4/677 4/677P

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AR058001 AA        | 20080123         | AR2006P100669      | 20060223         |
| BRPI0608307 A2     | 20091208         | BR2006PI08307      | 20060223         |
| CA2598710 AA       | 20070822         | CA20062598710      | 20060223         |

|                 |          |                |          |
|-----------------|----------|----------------|----------|
| CN101160437 A   | 20080409 | CN200680005798 | 20060223 |
| EP1856337 A2    | 20071121 | EP20060735932  | 20060223 |
| EP1856337 A4    | 20080514 | EP20060735932  | 20060223 |
| HK1115422 A1    | 20081128 | HK20080111149  | 20081008 |
| HK1115422 A3    | 20081128 | HK20080111149  | 20081008 |
| IL185451 A0     | 20080106 | IL20060185451  | 20060223 |
| IN03477KN2007 A | 20080725 | IN2007KN03477  | 20070917 |
| JP2008531882 T2 | 20080814 | JP20070557166T | 20060223 |
| KR20080004465 A | 20080109 | KR20077021383  | 20060223 |
| MX2007010323 A1 | 20080221 | MX20070010323  | 20060223 |
| RU2007135285 A  | 20090327 | RU20070135285  | 20060223 |
| TW200630526 A   | 20060901 | TW20060106189  | 20060223 |
| US2006185076 AA | 20060824 | US20060360156  | 20060223 |
| WO06091748 A2   | 20060831 | WO2006US06470  | 20060223 |
| WO06091748 A3   | 20071206 | WO2006US06470  | 20060223 |

**Priority:**

US20050656180 20050223 US20050656180P 20050223 US20060360156 20060223  
WO2006US06470 20060223

**Probable Assignee:** SWIFTOP INC

**Assignee(s):** (std): BROWN SCOTT ; HUBER DONALD G

**Assignee(s):** SCOTT BROWN ; SWIFTOP INC ; DONALD G HUBER

**Inventor(s):** (std): BROWN SCOTT ; HUBER DONALD G ; SCOTT BROWN

**Inventor(s):** DONALD G HUBER ; HUBER DONALD

**Agent(s):** ROBIC; HASTINGS AND CO; GARRISON ASSOCIATES

**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 LI 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

**15) Family number: 17166382** (ES1004748Y)

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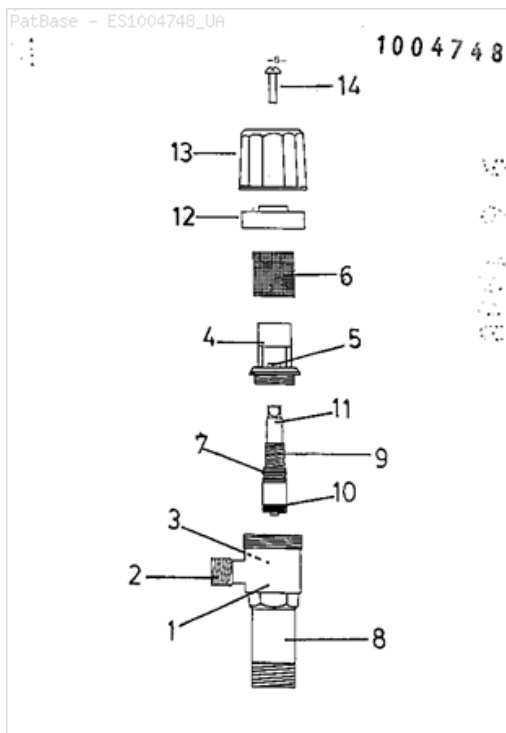
**Title:** LLAVE DE REGULACION CON FILTRO PARA MONOMANDOS DE GRIFERIA

**Abstract:** Source: ES1004748U [ES] LLAVE DE REGULACION CON FILTRO PARA MONOMANDOS DE GRIFERIA, CARACTERIZADA ESENCIALMENTE POR UN CUERPO PRINCIPAL DOTADO DE UN CONDUCTO SUPERIOR POR DONDE ENTRA EL FLUIDO, ESTE LLEGA A UNA CAMARA INTERIOR HERMETICAMENTE CERRADA, DONDE DESPUES DE PASAR POR UN FILTRO CILINDRICO QUE RODEA UNA CAPSULA CON PEQUEÑOS ORIFICIOS, ATRAVIESA DICHOS ORIFICIOS PARA TOPAR CON UNA VALVULA, REGULADA POR UN VOLANTE DE MANDO DE DOS PIEZAS, UNA UNIDA AL CUERPO PRINCIPAL MEDIANTE ROSCA, QUE A SU VEZ SE ACOPLA A OTRA FIJADA A LA VALVULA POR UN TORNILLO. ESTA VALVULA ADMINISTRA LA CANTIDAD DE AGUA QUE PASA POR EL CUERPO QUE UNE LA CAMARA INTERIOR CON EL ORIFICIO CANALIZADOR AL EXTERIOR. **Machine translation:** Key WITH FILTER FOR mixers of taps, characterized ESSENTIALLY BY A MAIN BODY PROVIDED WITH AN UPPER DUCT where it enters the fluid, THIS COMES TO A SEALED inner chamber, where AFTER PASSING THROUGH A cylindrical filter that surrounds a capsule with small holes, passing through said holes to ABUT A VALVE, REGULATED BY A CONTROL WHEEL OF TWO PARTS, ONE ATTACHED TO THE MAIN BODY BY A SCREW, WHICH IN TURN IS COUPLED TO OTHER FIXED TO THE VALVE BY A SCREW. This valve manages THE AMOUNT OF WATER PASSING THROUGH THE BODY CONNECTING THE INNER CHAMBER WITH THE CHANNELIZER hole to the outside.

**Classifications:**

**International (IPC 8-9):** B01D35/04 F16K1/02 (Advanced/Invention); B01D35/00 F16K1/00 (Core/Invention)

**International (IPC 1-7):** B01D35/04 F16K1/02



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| ES1004748 UA       | 19881016         | ES19870001311U     | 19870420         |

|              |          |                |          |
|--------------|----------|----------------|----------|
| ES1004748 Y1 | 19890416 | ES19870001311U | 19870420 |
| ES1004748 YA | 19890416 | ES19870001311U | 19870420 |

**Priority:**

ES19870001311U 19870420

**Probable Assignee:**

SOBIME SA

**Assignee(s): (std):**

SOBIME S A ; SOBIME SA

**Inventor(s): (std):**

SORRIEBES ROIG JORGE

**16) Family number: 19121434 (WO9629530A1)**

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**Title:** MULTIPOSITION CARTRIDGE-HOLDER MECHANISM FOR MONOCONTROL TAPS

**Abstract:** This mechanism comprises a shell (3) which, arranged inside a main body (1) of a tap, contains a positionally fixed cartridge (4). The main body (1) and the shell (3) have means which fix, upon their mutual coupling, the position of the shell (3) amongst a plurality of selectable positions, and have, in the main body (1), a perimetric protuberance (29) provided with a plurality of U-shaped retention grooves (r-1, r-2), and at the bottom (10) of the shell (3) is provided a retention threaded orifice (31-32), the whole assembly being designed so that the shell (3) may be rotated about its longitudinal axis and the retention hole (31-32) remains superimposed to any other retention grooves (31-32), the positioning of the shell (3) being secured by means of a fixing screw (33).

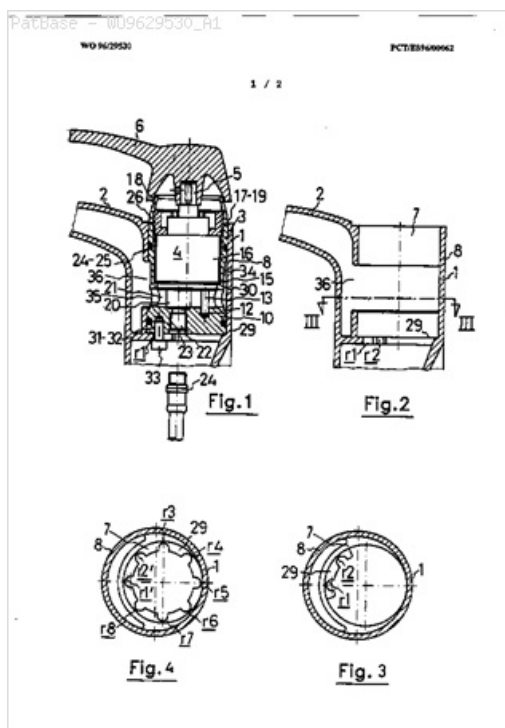
**Classifications:**

**International (IPC 8-9):** F16K11/078 F16K27/04 (Advanced/Invention); F16K11/06 F16K27/04 (Core/Invention)

**International (IPC 1-7):** F16K11/078 F16K11/78 F16K27/04

**CPC:** F16K11/0782 F16K27/045

**European:** F16K11/078B F16K27/04C2



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU199650054 A1     | 19961008         | AU19960050054      | 19960323         |
| ES2121507 AA       | 19981116         | ES19950000578      | 19950323         |
| ES2121507 BA       | 19990616         | ES19950000578      | 19950323         |
| WO9629530 A1       | 19960926         | WO1996ES00062      | 19960323         |

**Priority:**

ES19950000578 19950323 WO1996ES00062 19960323

**Probable Assignee:** SUPERGRIF S L

**Assignee(s): (std):** CONDEMINAS LLONGUERAS RICARD ; SUPERGRIF S L

**Assignee(s):** SUPERGRIF SL

**Inventor(s): (std):** LLONGUERAS RICARD CONDEMINAS ; CONDEMINAS LLONGUERAS RICARD

**Inventor(s):** RICARD CONDEMINAS LLONGUERAS

**Designated states:** AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LK LR LS LT LU LV MC MD MG MK ML MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN

**17) Family number: 34653448 (ES1037949Y)**

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**Title:** VALVULA MEZCLADORA MONOMANDO PERFECCIONADA.

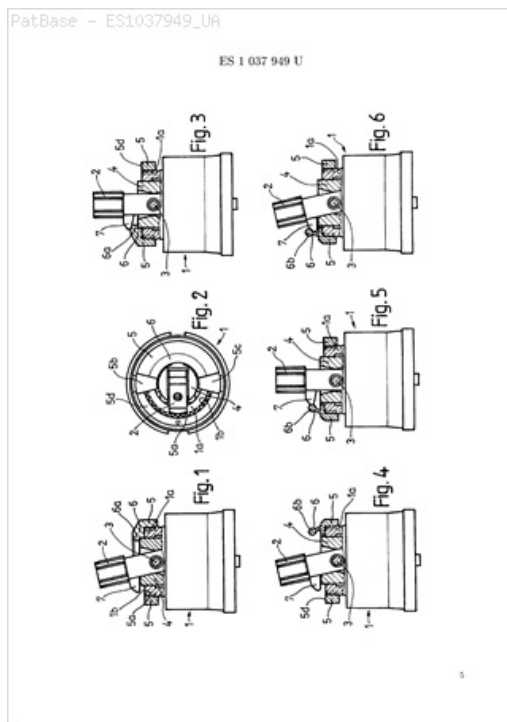
**Abstract:** Source: ES1037949U [ES] 1. VALVULA MEZCLADORA MONOMANDO PERFECCIONADA, DEL TIPO QUE COMPORTA DOS PLACAS DE MATERIAL CERAMICO, SUPERPUSTAS Y ADAPTADAS UNA CONTRA OTRA, SIENDO UNA DE ELLAS FIJA Y LA OTRA MOVIL ACCIONADA POR LA MANETA DEL GRIFO A TRAVES DE UN PIVOTE ACTUADOR, CARACTERIZADA PORQUE DICHO PIVOTE ESTA PROVISTO DE UN APENDICE QUE ESTA ASOCIADO A UN SALIENTE PREVISTO EN EL ANILLO IMITADOR DE LA TEMPERATURA, DE MANERA QUE A ELECCION DEL USUARIO DICHO ANILLO SE PUEDE DISPONER EN DOS POSICIONES PRINCIPALES OPUESTAS, EN UNA DE LAS CUALES EN LA APERTURA DEL GRIFO SE OBTIENE EL 100 percent DE CAUDAL MAXIMO, MIENTRAS QUE EN LA OTRA POSICION OPUESTA EL APENDICE HACE TOPE EN EL SALIENTE DEL

ANILLO IMITADOR DE TEMPERATURA LIMITANDO EL BASCULAMIENTO DEL PIVOTE LO QUE DETERMINA QUE EN LA APERTURA DEL GRIFO SE REDUCE EL CAUDAL A UN 50 percent DEL CAUDAL MAXIMO, EN TODAS LAS POSICIONES DE TEMPERATURA DE MEZCLA DE AGUA DESDE TODO FRIA A TODO CALIENTE. **Machine translation:** 1. Mixer MIXING VALVE perfected, OF THE TYPE COMPRISING TWO PLATES OF CERAMIC MATERIAL, SUPERPOSED AND ADAPTED AGAINST EACH OTHER, ONE BEING FIXED AND THE OTHER MOVABLE DRIVEN BY THE handle of the faucet THROUGH A PIVOT ACTUATOR, characterized IN THAT SAID PIVOT IS PROVIDED WITH AN APPENDIX THAT IS ASSOCIATED WITH A PROJECTION PROVIDED IN THE RING IMITATOR OF THE TEMPERATURE, SO THAT THE CHOICE OF THE USER, THE RING MAY BE ARRANGED IN TWO MAIN positions opposite, ONE OF WHICH IN THE OPENING OF THE TAP 100 percent of maximum flow is obtained, WHILE IN THE OTHER POSITION OPPOSITE THE APPENDIX ABUTS THE PROJECTION OF THE IMPERSONATOR TEMPERATURE LIMITING THE TILTING RING The PIVOT WHICH DETERMINES THAT IN THE OPENING OF THE TAP REDUCES THE FLOW RATE TO A 50 percent OF THE MAXIMUM FLOW RATE, IN ALL POSITIONS OF TEMPERATURE OF MIXTURE OF WATER FROM HOT TO COLD ALL.

#### Classifications:

**International (IPC 8-9):** F16K11/00 (Advanced/Invention);  
F16K11/00 (Core/Invention)

**International (IPC 1-7):** F16K11/00



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| ES1037949 UA       | 19980501         | ES19970002056U     | 19970728         |
| ES1037949 Y1       | 19981101         | ES19970002056U     | 19970728         |
| ES1037949 YA       | 19981101         | ES19970002056U     | 19970728         |

#### Priority:

ES19970002056U 19970728

**Probable Assignee:** ROCA RADIADORES

**Assignee(s):** (std): ROCA RADIADORES

**Assignee(s):** COMPANIA ROCA RADIADORES S A ; COMPANIA ROCA RADIADORES SA

**Inventor(s):** (std): SINGLA PALACIN JAIME

#### 18) Family number: 77451459 (CO20190014454U)

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**Title:** EMPAQUE DE SELLE PARA LA BASE DE UN CARTUCHO DE GRIFERIA Packing SEAL FOR THE BASIS OF A FAUCET CARTRIDGE (Machine translation)

**Abstract:** Source: CO20190014454U [ES] La presente invencion se relaciona con un empaque para la base de un cartucho de griferia monocontrol, donde el empaque corresponde al empaque base que permite hacer el acople entre el cartucho monocontrol y la superficie de contacto en un punto perimetral, en donde el empaque comprende una base circular con unos agujeros de anclaje o acople al cartucho y un agujero principal, a traves del cual pasan las mangueras; y una pared lateral circular, que se eleva desde el borde de la base circular y tiene venas radiales, que se proyectan desde la superficie externa y alrededor de dicha pared lateral. Esta configuracion de elementos permite realizar un selle eficiente en forma tanto axial como radial, eliminando de esta forma hasta 95 percent la posibilidad que existan fugas en la griferia, al tiempo que las venas radiales se comprimen absorbiendo todas las variaciones geometricas de los elementos en contacto y logrando que la superficie mecanizada no requiera un acabado especial o muy detallado. **Machine translation:** The present invention relates to a package for the basis of a monocontrol faucet cartridge, wherein the packaging corresponds to the packaging base that allows the coupling between the cartridge and the contact surface of the perimeter monocontrol at a point, wherein the packaging comprises a circular base with holes anchoring or coupling to the cartridge and a main hole, through which pass the hoses; and a circumferential side wall, which rises from the edge of the circular base and has radial veins, projecting from the outer surface and around said side wall. This configuration of elements allows an efficient seal in both axial and radial form up to 95 percent, thereby eliminating the possibility that there are leaks in the taps, while the radial veins are compressed absorbing all the geometric variations of the elements in contact and making the machined surface will not require a special finishing or very detailed.

#### Classifications:

**International (IPC 8-9):** F16K11/00 F16K25/00 F16K27/00 (Advanced/Invention)

#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CO20190014454 U1   | 20200117         | CO20190014454U     | 20191219         |

**Priority:**

CO20190014454U 20191219

**Probable Assignee:** COMPANIA COLOMBIANA DE CERAM S A S

**Assignee(s):** (std): COMPANIA COLOMBIANA DE CERAM S A S

**Assignee(s):** COMPANIA COLOMBIANA DE CERAMICA SAS

**Inventor(s):** (std): FLOREZ PARDO CARLOS ERNESTO ; ROJAS PINEDA FABIAN RICARDO ; SALAZAR GARCIA JOSE ALEXANDER

**19) Family number: 73788610** (WO19063439A1)

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**Title:** SINGLE-LEVER TIMED MIXER TAP

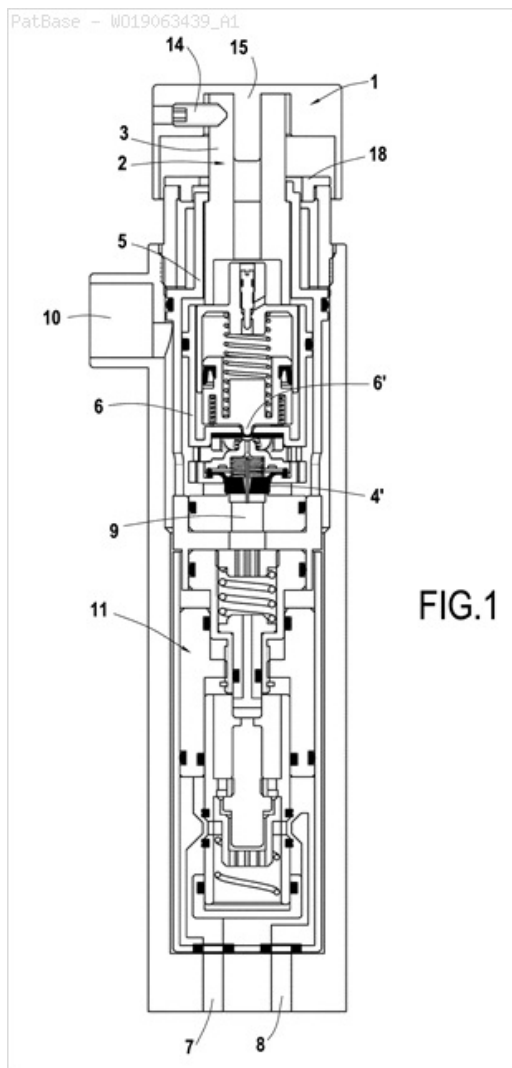
**Abstract:** The invention relates to a single-lever, timed mixer tap comprising a push-button 1 that makes it possible to control the passage of water between at least one water-supply inlet, in particular two inlets for hot water and cold water, respectively, and at least one outlet for the mixed water, a mixing block 11 having a portion that is rotatably movable in relation to a stationary portion in order to vary the temperature of the mixed water, and a timer cartridge 6, characterised in that the mixing block and the timer cartridge are mounted separately from one another and the push-button is mounted translatably and rotatably movable, and in that at least one member for transmitting the movement of the push-button is provided, which is designed to transmit a translational movement to an actuator rod 6' of the timer cartridge as well as a rotational movement to the movable portion of the mixing block.

**Classifications:**

**International (IPC 8-9):** E03D3/04 F16K21/04

F16K21/10 (Advanced/Invention)

**CPC:** E03C1/04 F16K21/10



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU2018340420 AA    | 20190404         | AU20180340420      | 20180921         |
| CA3076286 AA       | 20200318         | CA20183076286      | 20180921         |
| FR3071578 A1       | 20190329         | FR20170071031      | 20170928         |
| FR3071578 B1       | 20200110         | FR20170071031      | 20170928         |
| WO19063439 A1      | 20190404         | WO2018EP75663      | 20180921         |

**Priority:**

FR20170071031 20170928 WO2018EP75663 20180921

**Probable Assignee:** LES ROBINETS PRESTO

**Assignee(s):** (std): LES ROBINETS PRESTO

**Assignee(s):** BACQUET GREGORY ; CHAUVEAU STEPHANE ; GRANSEIGNE LAURENT

**Inventor(s):** (std): CHAUVEAU STEPHANE ; GRANSEIGNE LAURENT ; BACQUET GREGORY

**Inventor(s):** STEPHANE CHAUVEAU ; LAURENT GRANSEIGNE ; GREGORY BACQUET

**Agent(s):** PHILLIPS ORMONDE FITZPATRICK; KIRBY EADES GALE BAKER; CABINET VANDER HEYM; EIDELSBURG

**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

**20) Family number: 34672637 (ES1055365Y)**

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**Title:** DISPOSITIVO DISTRIBUIDOR DE AGUA PARA GRIFOS TERMOSTATICOS, MONOMANDO Y BIMANDO

**Abstract:** Source: ES1055365U [ES] 1. Dispositivo distribuidor de agua para grifos termostaticos, monomando y bimando, del tipo de los utilizados para dirigir el agua hacia la ducha o hacia la banera, caracterizado porque el dispositivo distribuidor del grifo se acciona mediante pulsador. **Machine translation:** 1. Water distributor device for thermostatic taps, mixer and bimando, of the type used to direct the water toward the shower or bath, characterized in that the distributor device of the tap is actuated by push-button.

**Classifications:**

**International (IPC 8-9):** F16K11/00 (Advanced/Invention);

F16K11/00 (Core/Invention)

**International (IPC 1-7):** F16K11/00

PatBase - ES1055365\_UA

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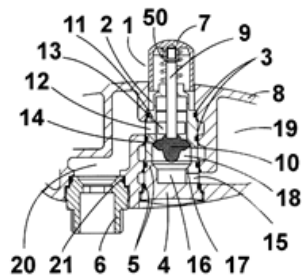


**FIG.1**

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| ES1055365 UA       | 20031116         | ES20030001794U     | 20030725         |
| ES1055365 Y1       | 20040301         | ES20030001794U     | 20030725         |

**Priority:**

ES20030001794U 20030725

**Probable Assignee:** LADRON JIMENEZ ROBERTO

**Assignee(s): (std):** LADRON JIMENEZ ROBERTO

**Inventor(s): (std):** LADRON JIMENEZ ROBERTO

**21) Family number: 41998651 (US2008163933A)**

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**Title:** CARTRIDGE UNDERBODY ATTACHMENT

**Abstract:** The present invention is a cartridge underbody attachment for a single control faucet. The attachment generally comprises a cartridge seat, valve tubes, and tube fittings. The cartridge seat is supported within the spout body of a faucet. The spout body comprises a sideways extending port having a notch and ledge formed therein. The cartridge seat is positioned in the spout body. The cartridge seat generally comprises a backplate having defined apertures, and a manifold that is part of the rear surface of backplate. Valve tubes soldered within the manifold are in fluid communication with the apertures. A pin on the backplate interfaces with the notch in the spout body to align and position the cartridge seat within the spout body. A cartridge support housing in combination with the port ledge of the spout body secure the cartridge underbody attachment to the spout body.

**Classifications:**

**International (IPC 8-9):** B67D5/37 B67D7/42 E03C1/02 F16K11/074

F16K21/00 F16K27/00 F16K27/04 F16K3/314 (Advanced/Invention);

B67D7/42 E03C1/02 F16K11/06 F16K21/00 F16K27/00 F16K27/04

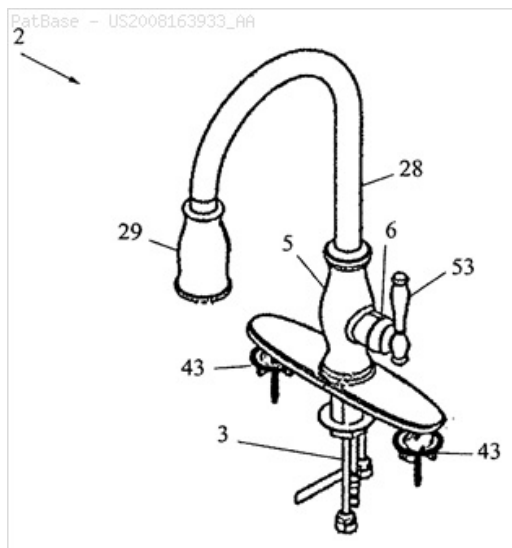
F16K3/00 (Core/Invention)

**CPC:** Y10T137/0491 Y10T137/6014 Y10T137/7668 Y10T137/9464

F16K19/006 E03C1/0403 F16K11/0787

**European:** E03C1/04C F16K11/078B3 F16K19/00D

**US:** 137/15.18 137/315.12 137/454.6 137/801



#### Family:

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| BRPI0806246 A2     | 20110906         | BR2008PI06246      | 20080109         |
| CA2674419 AA       | 20090702         | CA20082674419      | 20080109         |
| CA2674419 C        | 20150922         | CA20082674419      | 20080109         |
| CN201447361 U      | 20100505         | CN200890000028U    | 20080109         |
| MX2009007363 A1    | 20090716         | MX20090007363      | 20080109         |
| US2008163933 AA    | 20080710         | US20070651206      | 20070109         |
| US7533683 BB       | 20090519         | US20070651206      | 20070109         |
| WO08086379 A1      | 20080717         | WO2008US50551      | 20080109         |

#### Priority:

US20070651206 20070109 WO2008US50551 20080109

**Probable Assignee:** PRICE PFISTER INC

**Assignee(s):** (std): ORTEGA INDALECIO ; NEWFREY LLC ; BAKER SCOTT

**Assignee(s):** BLACK AND DECKER INC ; BANK OF AMERICA NA AGENT AS ; KWIKSET CORP ; LIQUID HOLDING CO INC ; NATIONAL MFG CO ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS ; APPLICA CONSUMER PRODUCTS INC ; APPLICA CONSUMER PRODUCTS INC A CORP OF FLORIDA ; PRICE PFISTER HOLDINGS INC ; PRICE PFISTER INC ; ROV HOLDING INC A CORP OF DELAWARE ; ROVCAL INC ; ROVCAL INC A CORP OF CALIFORNIA ; RUSSELL HOBBS INC A CORP OF DELAWARE ; SALIX ANIMAL HEALTH LLC ; SEED RESOURCES LLC ; RUSSELL HOBBS INC ; ROYAL BANK OF CANADA ; WELLS FARGO BANK NATIONAL ASSOCIATION ; SPECTRUM BRANDS INC ; SPECTRUM BRANDS INC A CORP OF DELAWARE ; SPECTRUM BRANDS INC SUCCESSOR IN INTEREST TO ROVCAL INC AS ; TELL MFG INC ; TETRA HOLDING US INC A CORP OF DELAWARE ; TETRA HOLDINGS US INC ; UNITED IND CORP ; UNITED IND SUCCESSOR IN INTEREST TO LIQUID HOLDING CO INC AS CORP ; UNITED PET GROUP INC ; UNITED PET GROUP INC A CORP OF DELAWARE ; TETRA HOLDING US INC ; TOASTMASTER INC

**Inventor(s):** (std): BAKER SCOTT ; ORTEGA INDALECIO ; BECK SCCOT ; ORTEGA INDALESIO

**Inventor(s):** INDALESIO ORTEGA ; SCCOT BECK ; SCOTT BAKER ; INDALECIO ORTEGA

**Agent(s):** BLAKE CASSELS AND GRAYDON LLP ; RICHARD J VELTMAN ESQ BLACK AND DECKER CORP ; VELTMAN RICHARD J ; DELPONTI JOHN D ; JOHN D ; RICHARD J

**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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

#### 22) Family number: 17174849 (ES1020142Y)

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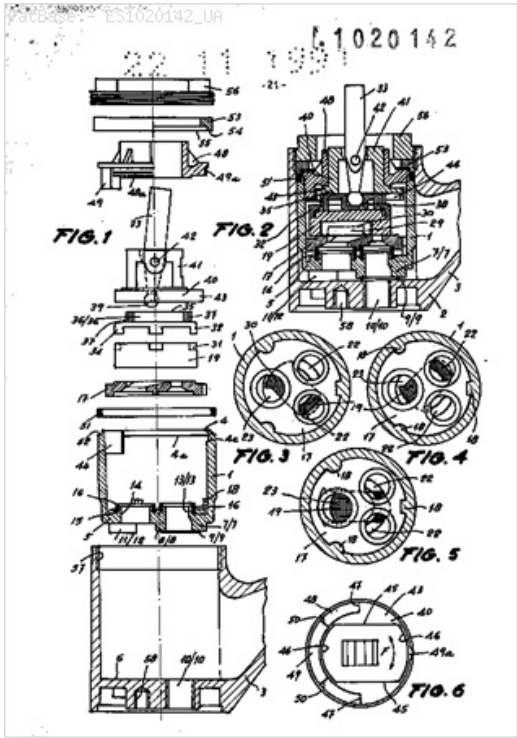
**Title:** VALVULA MEZCLADORA MONOMANDO PERFECCIONADA.

**Abstract:** Source: ES1020142U [ES] VALVULA MEZCLADORA MONOMANDO PERFECCIONADA, DEL TIPO QUE COMPRENDE UNA CARCASA ENVOLVENTE PROVISTA INFERIORMENTE DE LAS ENTRADAS DE AGUA CALIENTE Y FRIA Y DE UNA SALIDA DEL AGUA SALIENTE MEZCLADA, FRIA O CALIENTE, EN LA QUE ESTAN ALOJADOS DOS DISCOS CERAMICOS, UN DISCO INFERIOR FIJO PROVISTO DE LAS DOS ENTRADAS DE AGUA CALIENTE Y FRIA Y DE UNA SALIDA DEL AGUA SALIENTE, MEZCLADA, FRIA O CALIENTE EN CORRESPONDENCIA CON LAS DE LA CARCASA ENVOLVENTE, CUYAS DOS ENTRADAS Y SALIDA DEL DISCO FIJO PRESENTAN BISELADOS O ACHAFLANADOS SUPERIOR E INFERIORMENTE, Y UN DISCO SUPERIOR MOVIL DESPLAZABLE DIAMETRAL Y CIRCULARMENTE SEGUN UN ARCO CON RESPECTO AL DISCO FIJO Y QUE PRESENTA UNA CAVIDAD INTERIOR ENFRENTADA AL DISCO FIJO QUE PONE EN COMUNICACION AL MENOS UNA DE LAS ENTRADAS DE AGUA DEL DISCO FIJO CON LA SALIDA DEL MISMO, CUYO DISCO MOVIL ES ACCIONADO MEDIANTE UN EJE ACTUADOR SOLIDARIO DE LA PALANCA DE MANDO QUEES BASCULANTE SEGUN UN PLANO Y GIRATORIO SEGUN UN ARCO ENTRE SENDOS TOPES EXTREMOS QUE PRODUCE LOS DESPLAZAMIENTOS DEL DISCO MOVIL, COMPRENDIENDO LAS CORRESPONDIENTES JUNTAS DE ESTANQUEIDAD, CARACTERIZADA PORQUE COMPRENDE LA COMBINACION DE LA CARCASA ENVOLVENTE INCORPORANDO LOS ELEMENTOS ACTIVOS Y EL CUERPO DEL GRIFO, LA CARCASA ENVOLVENTE PRESENTA UNA EMBOCADURA SUPERIOR Y UN FONDO REALZADO QUE NO LLEGA AL FONDO PLANO DEL CUERPO DEL GRIFO, DE CUYO FONDO INFERIOR Y EXTERIORMENTE SOBRESALEN DOS PEQUEÑOS CUELLOS LIGERAMENTE ELIPTICOS PROVISTOS DE RESPECTIVAS RANURAS CONCENTRICAS INTERMEDIAS PARA EL ENCAJE DE SENDAS JUNTAS DE ESTANQUEIDAD EN CORRESPONDENCIA CON LOS TALADROS DEL CUERPO DEL GRIFO RELATIVOS A LAS ENTRADAS DE AGUA CALIENTE Y FRIA, Y RESULTOS ADICIONALES QUE SE APOYAN Y POSICIONAN LA CARCASA ENVOLVENTE SOBRE EL FONDO DEL CUERPO DEL GRIFO, Y DE CUYO FONDO SOBRESALEN INTERIORMENTE RESPECTIVOS CUELLOS SALIENTES PROVISTOS DE RESPECTIVAS RANURAS CONCENTRICAS PARA EL ALOJAMIENTO EN FORMA ENTUBADA DE SENDAS JUNTAS DE ESTANQUEIDAD CON RESPECTO AL DISCO FIJO, DOS DE CUYOS CUELLOSINTERIORES CORRESPONDEN

RESPECTIVAMENTE A LAS ENTRADAS DE AGUA CALIENTE Y FRIA Y EL TERCERO A LA DEL AGUA SALIENTE, COMPRENDIENDO LATERAL E INTERIORMENTE SALIENTES DE GUIA Y POSICIONAMIENTO DEL DISCO FIJO, SOBRE EL CUAL SE DISPONE EL DISCO MOVIL Y LOS RESTANTES ELEMENTOS ACTIVOS QUE SE ACOPLAN EN EL INTERIOR DE LA CARCASA DISPONIENDOSLOS SUPERIORMENTE POR LA EMBOCADURA, Y QUE COMPRENDEN EL DISCO FIJO QUE PRESENTA EN LA CARA SUPERIOR EN CONTACTO CON EL DISCO MOVIL UN REGRUESAMIENTO SUSTANCIALMENTE CIRCULAR QUE PRESENTA RADIALMENTE PROLONGACIONES MEJORANDO EL CONTACTO Y EL EQUILIBRIO Y LA ESTABILIDAD ENTRE AMBOS DISCOS EN CUALQUIER POSICION RELATIVA ENTRE AMBOS, MOSTRANDO LOS BISELADOS O ACHAFLANADOS DE LOS ORIFICIOS DE LAS DOS ENTRADAS Y LA SALIDA UNAS CONCAVIDADES SUAVES, COMPRENDIENDO EN LA CARA INFERIOR SENDOS REHUNDIDOS EN CORRESPONDENCIA CON DICHOS CUELLOS SALIENTES INTERIORMENTE DEL FONDO DE LA CARCASA DONDE ENCAJAN LAS RESPECTIVAS JUNTAS DE ESTANQUEIDAD ENTUBADAS ACOPLADAS, Y PRESENTANDO PERIFERICAMENTE DOS MUESCAS SEMICIRCULARES Y UNA RECTANGULAR EQUIDISTANTES DE ACOPLAMIENTO A LOS SALIENTES DE GUIA DE LA CARCASA ENVOLVENTE; EL DISCO MOVIL PRESENTA LA CAVIDAD EN FORMA SUSTANCIALMENTE A MODO DE CAMPANA EN CUYO INTERIOR ESTA ACOPLADA LA REJILLA METALICA ANTIRRUIDO QUE PONE EN COMUNICACION LOS DOS ORIFICIOS DE ENTRADA Y EL DE SALIDA DEL DISCO FIJO, MOSTRANDO EN LA CARA OPUESTA UNOS REHUNDIDOS PERIFERICOS PARA EL ACOPLAMIENTO DE UN ELEMENTO INTERMEDIO QUE TRANSMITE EL MOVIMIENTO DEL EJE ACTUADOR SOLIDARIO DE LA PALANCA DE MANDO; EL ELEMENTO INTERMEDIO TRANSMISOR DEL MOVIMIENTO DEL EJE ACTUADOR AL DISCO MOVIL PRESENTA INFERIORMENTE SENDAS PATILLAS DE ACOPLAMIENTO A LOS REHUNDIDOS DEL DISCO MOVIL Y SUPERIORMENTE MUESTRA UN RESALTO CUADRANGULAR DEFINIDO POR DOS PAREDES LATERALES DE GUIADO UNIDAS POR SENDOS ARCOS DENTADOS OPUESTOS, ESTANDO DICHO RESALTO LIGERAMENTE DESCENTRADO RESPECTO DE DICHAS PAREDES DE GUIADO, Y COMPRENDIENDO CENTRALMENTE UN ALOJAMIENTO CIRCULAR DE ENCAJEDEL EXTREMO INTERIOR A MODO DE BOLA DEL EJE ACTUADOR; EL ELEMENTO DE SOPORTE DEL EJE ACTUADOR PRESENTA UN CUELLO SUPERIOR EN EL QUE ESTA BASCULANTE EL EJE ACTUADOR MEDIANTE UN PASADOR Y UNA VALONA INFERIOR QUE PRESENTA UNA DEPRESION INFERIOR DEFINIDA POR DOS BORDES PARALELOS DE GUIADO LATERALES UNIDOS POR DOS BORDES EN ARCO, CUYOS BORDES DE GUIADO SE ACOPLAN A LAS PAREDES DE GUIA DEL ELEMENTO INTERMEDIO SOLIDARIO DEL DISCO MOVIL, SIENDO DICHOS BORDES LATERALES DE GUIADO DE MAYOR LONGITUD QUE DICHAS PAREDES DE GUIA, EL BASCULAMIENTO DEL EJE ACTUADOR PRODUCE EL MOVIMIENTO DIAMETRAL DEL ELEMENTO INTERMEDIO Y DEL DISCO MOVIL SOLIDARIO AL MISMO, CERRANDO O ABIRIENDO LOS ORIFICIOS DE ENTRADA DE AGUA CALIENTE O FRIA DEL DISCO FIJO, Y COMPRENDIENDO DICHA VALONA DOS TOPES EXTREMOS DEFINIDOS POR UN SEMICIRCULO; EL ELEMENTO DE TOPE QUE SE ACOPLA SOBRE EL ELEMENTO DE SOPORTE DEL EJE ACTUADOR, PRESENTA INFERIORMENTE UN RESALTO EN ARCO, CONTRA CUYOS EXTREMOS HACEN TOPE LOS TOPES EXTREMOS DE DICHO ELEMENTODE SOPORTE AL GIRAR EN UNO U OTRO SENTIDO EL EJE ACTUADOR, HACIENDO GIRAR EN EL SENTIDO CORRESPONDIENTE EL ELEMENTO DE SOPORTE, EL ELEMENTO INTERMEDIO Y EL DISCO MOVIL, EL CUAL ABRE O CIERRA EN FORMA GRADUAL CORRESPONDIENTE LOS DOS ORIFICIOS DE ENTRADA DE AGUA CALIENTE O FRIA DEL DISCO FIJO; COMPRENDIENDO ADEMAS LA CARCASA INTERIORMENTE EN LA EMBOCADURA UNA RANURA ANULAR INTERRUMPIDA EN SENDOS REBAJOS DE GUIA DIAMETRALMENTE OPUESTOS, Y EL ELEMENTO DE TOPE UNNERVIO ANULAR INTERRUMPIDO EN EL RESALTO EN ARCO Y UN PEQUEÑO RESALTO DIAMETRALMENTE OPUESTO DE LONGITUDES EN CORRESPONDENCIA CON DICHOS REBAJOS DE GUIA, Y EN EL ACOPLAMIENTO DEL ELEMENTO DE TOPE A LA CARCASA CON LOS ELEMENTOS ACTIVOS EN SU INTERIOR, EL NERVIO ANULAR ENCAJA A PRESION EN LA RANURA ANULAR ACTUANDO EL ELEMENTO DE TOPE A MODO DE TAPA, CONSTITUYENDO DICHO CONJUNTO UN BLOQUE INDEPENDIENTE MANIPULABLE; Y UNA JUNTA DE ESTANQUEIDAD EN FORMA DE ANILLO ENTRE LA PARTE SUPERIOR DE LA CARCASA ENVOLVENTE PROVISTA DE UN LIGERO REBAJO ANULAR EXTERIOR EN LA EMBOCADURA Y EL CUERPO DEL GRIFO PARA QUE EL AGUA SALIENTE DE LA CARCASA CIRCULE ENTRE DICHA CARCASA Y EL CUERPO DEL GRIFO, Y UNA ARANDELA PROVISTA INFERIORMENTE DE UN REBORDE ANULAR QUE SE APOYA Y PRESIONA SOBRE DICHA JUNTA DE ESTANQUEIDAD Y CUYA PARTE PLANA ANULAR INTERIOR SE APOYA SOBRE DICHO ELEMENTO DE TOPE, MANTENIENDO EN POSICION EL CONJUNTO DE LA CARCASA ENVOLVENTE Y LOS ELEMENTOS ACTIVOS ACOPLADOS EN SU INTERIOR, EN EL CUERPO DEL GRIFO, MEDIANTE UNA TUERCA SUPERIOR QUE ROSCA EN UN FILETEADO SUPERIOR DEL CUERPO DEL GRIFO. **Machine translation:** Mixer MIXING VALVE perfected, OF THE TYPE COMPRISING A CASING PROVIDED INFERIORLY OF THE ENTRIES HOT AND COLD WATER AND AN OUTLET OF THE OUTGOING water mixed, hot or cold, in which are housed two ceramic discs, a fixed lower DISC PROVIDED WITH THE TWO INPUTS OF HOT AND COLD WATER AND AN OUTLET OF THE OUTGOING WATER, mixed, in CORRESPONDENCE WITH THE HOT OR COLD OF THE CASING, whose two inputs and output of the fixed disk have beveled or chamfered top and bottom, AND AN UPPER DISC MOVABLE CIRCUMFERENTIALLY AND DIAMETRICAL ACCORDING TO AN ARC WITH RESPECT TO THE FIXED DISC AND WHICH HAS AN INNER CAVITY FACING THE FIXED DISK THAT PUTS IN COMMUNICATION THE Least ONE OF THE WATER INLETS OF THE FIXED DISK WITH THE OUTLET THEREOF, whose movable DISK IS DRIVEN BY AN ACTUATOR shaft integral with the lever and rotating QUEES TILTING ACCORDING TO A PLANE ACCORDING TO AN ARC BETWEEN TWO END STOPS WHICH PRODUCES THE MOVEMENT OF THE MOVABLE DISK, comprising the corresponding sealing joints, characterized in that it comprises THE COMBINATION OF THE SHELL CASING INCORPORATING THE ACTIVE ELEMENTS AND THE BODY OF THE TAP, THE CASING HAS AN UPPER OPENING AND A BOTTOM THAT DOES NOT REACH THE BOTTOM OF THE faucet body, whose bottom externally protrude two small necks slightly elliptical LOWER AND PROVIDED WITH RESPECTIVE INTERMEDIATE CONCENTRIC GROOVES FOR ENGAGEMENT OF RESPECTIVE SEALS Gasket in correspondence with the holes of the faucet BODY RELATIVE TO THE INLETS OF HOT AND COLD WATER, AND ADDITIONAL PROJECTIONS WHICH ARE SUPPORTED AND POSITIONED THE SHELL CASING ON THE BOTTOM OF THE FAUCET BODY, AND WHOSE BOTTOM RESPECTIVE NECKS inwardly protruding projections provided with respective concentric grooves for accommodating piped IN THE FORM OF RESPECTIVE SEALS WITH RESPECT TO THE FIXED DISC, TWO OF WHOSE CUELLOSINTERIORES CORRESPOND RESPECTIVELY TO THE HOT AND COLD WATER INLETS AND THE THIRD TO THE OUTGOING WATER, comprising SIDE AND INSIDE GUIDE PROTRUSIONS AND POSITIONING OF THE FIXED DISK, ON WHICH IS ARRANGED THE MOVABLE DISK AND THE REMAINING ACTIVE ELEMENTS WHICH ENGAGE THE Inside the housing by arranging them superiorly by the mouth, and that comprise the fixed disk that has ON THE UPPER FACE IN CONTACT WITH THE MOVABLE DISK A thickened portion substantially CIRCULAR HAVING RADIALY EXTENSIONS AND THE BALANCE AND STABILITY IMPROVING CONTACT BETWEEN THE TWO DISKS IN ANY RELATIVE POSITION BETWEEN BOTH, showing the beveled or chamfered holes OF THE TWO INPUTS AND THE OUTPUT CONCAVITIES, comprising IN THE LOWER FACE respective recesses in correspondence with said protruding necks inwardly FROM THE BOTTOM OF THE HOUSING WHICH ENGAGE THE RESPECTIVE GASKETS ENTUBADAS coupled, and peripherally presenting two semicircular notches AND A RECTANGULAR EQUIDISTANT FROM COUPLING TO THE GUIDE PROTRUSIONS OF THE SURROUNDING casing; The movable DISK HAS THE CAVITY IN SUBSTANTIALLY CAMPAIGN IN WHICH IS COUPLED THE METAL GRID NOISE THAT PUTS IN COMMUNICATION THE TWO INLET AND OUTLET holes of the fixed disk, showing in the face opposite peripheral recesses for coupling an intermediate element which transmits the movement of the actuator shaft integral with the joystick; the intermediate ELEMENT OF THE MOVEMENT OF THE ACTUATOR TO THE MOVABLE DISK TRANSMITTER AXIS INFERIORLY PRESENTS RESPECTIVE PINS OF COUPLING TO THE RECESSES OF THE MOVABLE DISK AND SUPERIORLY SHOWS A QUADRANGULAR SHOULDER DEFINED BY TWO SIDE WALLS JOINED BY TWO TOOTHED ARCS OPPOSITE GUIDE, being slightly offset from said shoulder of said walls, And centrally A CIRCULAR HOUSING OF ENCAJEDEL comprising inner ball end of the actuator shaft; the support element of the actuator shaft has an upper neck IN WHICH IS tilting the actuator shaft by a PIN AND A LOWER FLANGE HAVING AN UPPER DEPRESSION DEFINED BY TWO PARALLEL lateral guide EDGES JOINED BY TWO ARCuate edges, THE EDGES OF WHICH ARE COUPLED TO THE GUIDE WALLS OF THE INTERMEDIATE ELEMENT INTEGRAL WITH THE MOVABLE DISC, being said side edges of guiding greater length than said guide walls, the tilting of the actuator shaft CAUSES THE MOVEMENT OF THE INTERMEDIATE MEMBER AND THE MOVABLE DISK DIAMETRICAL INTEGRAL TO IT, closing or opening the inlet holes Of HOT OR COLD WATER OF THE FIXED DISK, AND SAID FLANGE comprising two end stops defined by a circle; THE STOP ELEMENT WHICH ENGAGES ON THE SUPPORT element of the actuator shaft, inferiorly presents a shoulder in an arc, against whose ends about the END STOPS OF SAID ELEMENTODE SUPPORT TO ROTATE IN ONE DIRECTION OR ANOTHER actuator shaft, ROTATING IN THE DIRECTION CORRESPONDING TO THE SUPPORT ELEMENT, THE INTERMEDIATE ELEMENT AND THE MOVABLE disk, which opens or closes in a gradual manner corresponding THE TWO ENTRY HOLES OF HOT OR COLD WATER OF THE FIXED DISK; further COMPRISING THE HOUSING INTERNALLY IN THE MOUTH an annular groove INTERRUPTED IN TWO guiding recesses diametrically opposed, And the STOP SHOULDER IN UNNERVIO INTERRUPTED ANNULAR ARC AND A SMALL shoulder lengths in correspondence with said recesses diametrically opposed guide, AND IN THE COUPLING OF THE STOP ELEMENT TO THE HOUSING WITH THE ACTIVE ELEMENTS INSIDE THE ANNULAR RIB snaps into the annular groove THE STOP element acting as a cover, constituting said set a separate block; AND A SEAL IN THE FORM OF MANIPULABLE RING BETWEEN THE TOP OF THE SHELL CASING PROVIDED WITH A SLIGHT RECESS OUTER ANNULAR IN THE MOUTH AND THE FAUCET BODY FOR HOUSING THE OUTGOING WATER FLOW BETWEEN SAID HOUSING AND THE BODY OF THE Tap, and a washer provided INFERIORLY OF AN ANNULAR FLANGE WHICH ABUTS and presses on said GASKET AND WHOSE INNER ANNULAR FLAT PORTION RESTS ON SAID STOP ELEMENT, MAINTAINING IN POSITION THE ASSEMBLY OF THE

CASING AND THE ACTIVE ELEMENTS COUPLED THEREIN, in the faucet body, BY A TOP NUT which threads into a threaded top of the faucet BODY.

**Classifications:**  
**International (IPC 8-9):** F16K11/02 (Advanced/Invention);  
F16K11/02 (Core/Invention)  
**International (IPC 1-7):** F16K11/02



**Family:**

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| ES1020142 UA       | 19920601         | ES19910003516U     | 19911122         |
| ES1020142 Y1       | 19930616         | ES19910003516U     | 19911122         |
| ES1020142 YA       | 19930616         | ES19910003516U     | 19911122         |

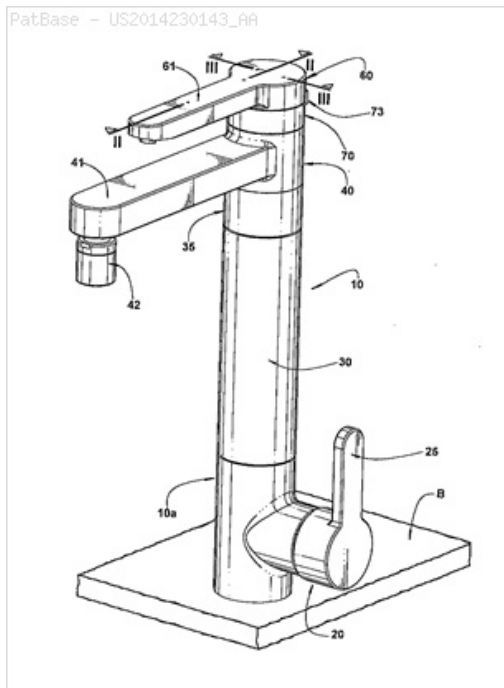
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ES19910003516U 19911122  
**Probable Assignee:** ESTEVE ROVIRA BAUDILLO  
**Assignee(s):** (std): ESTEVE ROVIRA BAUDILLO ; ESTEVE ROVIRA FELIX

**23) Family number: 53423855 (US2014230143A)** © PatBase

**Title:** MIXING FAUCET PROVIDED WITH A FILTER

**Abstract:** The faucet comprises a body having a cold water inlet, a hot water inlet and a service water outlet, and housing a monocontrol mechanism, for blocking and liberating the communication between the cold water inlet and/or hot water inlet with the service water outlet; a tubular column, coupled to the body and open to the service water outlet, and onto which is mounted a first head carrying a service radial spout connected to the service water outlet; a filter cartridge mounted in the interior of the tubular column, inferiorly connected to the cold water inlet and onto which is mounted a second head which carries a filtrate radial spout connected to the outlet nozzle of the filter cartridge; and a filtrate cock for blocking and liberating the fluid communication between the cold water inlet and the filtrate radial spout.

**Classifications:**  
**International (IPC 8-9):** B01D27/00 B01D35/02 B01D35/153 E03C  
E03C1/04 (Advanced/Invention)  
**CPC:** E03C1/04 E03C2201/40 E03C1/0404  
**US:** 1/1 4/676

**Family:**

| Publication number | Publication date | Application number | Application date |
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| CL2014000704 A1    | 20141128         | CL20140000704      | 20140321         |
| CL56741 B          | 20181205         | CL20140000704      | 20140321         |
| CN103930627 A      | 20140716         | CN201280046734     | 20120925         |
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**Assignee(s):** DURATEX S A

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