

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO	
RAD: 15-265630- -6	FECHA: 2016-06-13 09:16:07
DEP: 2020 DIRECCION DE NUEVAS CREACIONES	EVE: 1 REGISTRO/DEPOSITO/CONCESION/DEPOSITO
TRA: 3 PATENTES DE MODELO DE UTILIDAD	FOLIOS: 4
ACT: 519 TRASLADOINFORME	

DIRECCIÓN DE NUEVAS CREACIONES

2020
Bogotá, D.C.,

Abogado(a)/Señor(a)
ROSA DE JESUS MORENO FARIAS

Asunto: Radicación: 15-265630- -6
Trámite: 3
Evento: 1
Actuación: 519
Oficio: 7019
Folios: 4

Patente de Invención			Patente de Modelo de Utilidad	X
Vía Nacional	X			
Vía PCT (Fase Nacional)		Capítulo I	Capítulo II	
No. Solicitud Internacional				
Fecha de Presentación Internacional				

Como resultado del examen de fondo realizado, con fundamento en el artículo 85 y en concordancia con el artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se le comunica:

1. Documentos estudiados

Descripción:	Rad. N° 15-265630-00003-0000	23/diciembre/2015
Reivindicaciones:	Rad. N° 15-265630-00003-0000	23/diciembre/2015
Dibujos:	Rad. N° 15-265630-00003-0000	23/diciembre/2015

2. Objeto de la invención

De acuerdo con lo establecido en el numeral 1.2.2.2 del Capítulo Primero del Título X de la Circular Única para efectos del examen de patentabilidad, se tendrá en cuenta la tasa pagada por el solicitante al momento de comenzar el examen para las reivindicaciones adicionales; esto es que cuando la solicitud contenga más de diez (10) reivindicaciones y no se haya pagado la tasa complementaria, sólo se estudiarán las cubiertas por la tasa pagada. Por lo tanto, se estudiarán las reivindicaciones 1 a 2 del Radicado N° 15-265630-00003-0000, página 8.

Título de la solicitud: “Válvula de bola paso completo para instalaciones en duchas”

(modificado, ver página 2 del radicado N° 15-265630-00003-0000).

El problema planteado en esta solicitud consiste en la necesidad de proporcionar una válvula de bola con manipulador de mariposa adaptada para ser empleada como válvula de control de flujo para una ducha, siendo dicha adaptación de fácil acople y bajos costos haciendo la misma accesible a todos los usuarios desde el punto de vista económico.

Para resolver este problema técnico, la solicitud en estudio proporciona una válvula de bola paso completo para instalaciones de duchas, caracterizada porque cuenta con un vástago extensor el cual se fija al vástago de la bola de la válvula. El vástago extensor en su extremo inferior cuenta con dos cuñas las cuales encajan con el vástago de la bola de la válvula la cual que permite la apertura o cierre en las tuberías; el vástago extensor en su extremo superior cuenta con un maquinado que puede ser semi cuadrado, cuadrado o estriado en toda su longitud cuenta con un orificio. El vástago extensor va rodeado por un tubo el cual sirve como porta escudo, en su diámetro superior coincide con el diámetro del escudo externo, y el diámetro inferior del tubo porta escudo coincide con el diámetro externo del cuerpo de la válvula de bola. El escudo está hecho específicamente para que coincida con el diámetro externo del tubo porta escudo.

El objeto de la presente solicitud se relaciona con la Clasificación Internacional de Patentes (CIP): F 16 K 5/00; E 03 C 1/00.

3. De la solicitud de patente

Reivindicaciones (Art 30 D 486, Art 22 PCT)

La frase “(...) *que cuenta con un maquinado que puede ser...*”, en la reivindicación 1, hace referencia al proceso de mecanizado mediante el cual se obtienen las configuraciones o formas semi-cuadradas, cuadrada o estriada del extremo superior (15), lo cual no es admisible, ya que se están mezclando dos tipos de reivindicaciones: de producto y de método. Siendo la reivindicación 1 una reivindicación del tipo producto o aparato, ésta debe estar caracterizada por sus elementos técnicos estructurales esenciales que la hacen diferente del estado de la técnica, y no por los procesos de fabricación mediante los cuales se obtienen las partes que hacen parte de la invención. Se sugiere eliminar la expresión “maquinado” por expresiones tales como “configuración” o “forma”.

La reivindicación 1 presenta un fallo en la redacción ya que hay dos párrafos independientes en la misma, y varios puntos seguidos que dividen la materia a proteger en segmentos igualmente independientes. Al respecto es importante aclarar que todos los elementos técnicos presentes en la reivindicación deben estar enlazados por la relación que comparten dentro del ensamble de la válvula de bola. Así las cosas, a continuación se sugiere una forma en la que se podría redactar la reivindicación 1:

1. *Válvula de bola paso completo para instalaciones de duchas, caracterizada porque cuenta con un vástago extensor (13) el cual se fija al vástago de la bola de la válvula (17), teniendo dicho vástago extensor (13) en el extremo inferior dos cuñas (16) que encajan el vástago de la válvula de bola (19); contando el vástago extensor (13) en su extremo superior (15) con un maquinado que puede ser semi cuadrado, cuadrado o estriado; estando dicho vástago extensor (13) rodeado por un porta escudo (10) sobre el que se dispone un escudo (8), y sobre la cabeza del vástago extensor (13) reposa la manija de apertura y cierre (4)*

cuyo extremo inferior (6) coincide con la forma geométrica del extremo superior (14) del vástago extensor (13), dicha manija de apertura y cierre (4) tiene un orificio (7), de igual manera el vástago extensor tiene un orificio (14) del mismo diámetro que sirve como conducto de fijación, por el cual pasa un tornillo (3); dicha manija de apertura y cierre (4) tiene en su parte superior un orificio (5) el cual aloja la tapa (2) de la manija de apertura y cierre (4).

Es importante aclarar que esta Oficina no tiene como intención limitar al solicitante en su forma de reclamar la invención, sino por el contrario guiarle en la mejor forma de reclamar la materia para la cual está solicitando la protección.

La frase “(...) en su extremo superior (15) cuenta con un maquinado que puede ser semi cuadrado, cuadrado o estriado”, en la reivindicación 1, no es clara dado que no permite precisar cuál de las configuraciones del extremo superior (15) es la que mejor define la invención, haciendo la reivindicación ambigua, y por tanto no permite restringir el alcance de la misma. Se sugiere definir una configuración o forma principal e incluirla en la reivindicación 1, y las configuraciones opcionales o preferentes en reivindicaciones dependientes.

4. Determinación del Estado de la Técnica

El estado de la técnica se determinó con base en la fecha de presentación de la solicitud de patente nacional: 06 de noviembre de 2015, y una vez consultadas las bases de datos a las que tiene acceso esta Oficina, no se encontraron documentos que anticipen el objeto de esta solicitud.

5. Conclusión

No se encontraron anterioridades que divulguen en su totalidad las características reclamadas en la reivindicación 1, sin embargo, es necesario que el solicitante realice las correcciones y/o aclaraciones a las objeciones de claridad del capítulo reivindicatorio.

En cumplimiento del artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se le indica que debe dar respuesta dentro del término de treinta (30) días contados a partir de la fecha de notificación de la presente comunicación. En caso de no dar respuesta al presente requerimiento, o si a pesar de la respuesta subsistieran los impedimentos para la concesión, se denegará la patente.

Si como respuesta a este requerimiento el solicitante llegara a modificar: i) el capítulo reivindicatorio, ii) la descripción de la invención a proteger, iii) o presente un nuevo capítulo reivindicatorio, y desee que se realice un nuevo examen de patentabilidad a esta modificación, no deberá pagar la tasa de modificación voluntaria pero sí la correspondiente a la tasa de examen de patentabilidad. En todo caso, el número de requerimientos por no patentabilidad estará supeditado a que el término del estudio de patentabilidad no sea superior a 9 meses, contados desde la publicación de la solicitud de patente de modelo de utilidad. Adicionalmente, se le recuerda al solicitante que si como respuesta a este requerimiento llegara a modificar el capítulo reivindicatorio y éste contenga más de diez (10) reivindicaciones deberá pagar la tasa por reivindicación adicional.

Notifíquese el presente oficio conforme a lo dispuesto en el numeral 5.2, literal e), del capítulo quinto del título primero de la Circular Única No. 10 de 2001.



JOSÉ LUIS SALAZAR LÓPEZ
Director de Nuevas Creaciones (c)

El anterior requerimiento fue notificado por fijación en lista, de fecha 2016-06-21

Elaboró: Diego Alberto Cardenas Gonzalez
Revisó: Sonia Andrea Diaz Pirazan

Diego CardenasDiego Cardenas

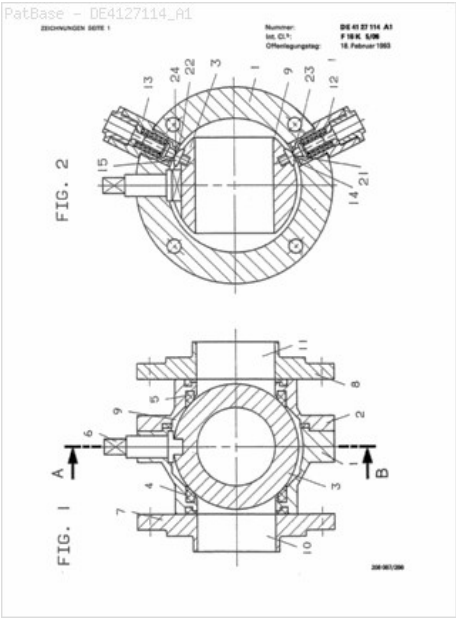
Search history

Search 1: TAC=((shower OR douse#) AND (faucet OR *cock) AND (ball WF2 valve)) and PD<20151105 (Results 22)
Search 2: TAC=((improve# OR adapt#) AND (ball WF2 valve)) and PD<20151105 (Results 12750)
Search 3: 2 AND (STAC= (handle AND sleeve AND flange AND adaptor)) (Results 3)
Search 4: 2 AND (TAC= (handle AND sleeve AND flange AND adaptor)) (Results 5)
Search 5: 2 AND (TAC= (handle AND sleeve AND flange)) (Results 78)
Search 6: TAC=((water AND flow AND control) AND (ball WF2 valve)) and PD<20151105 and IC=(F16K5) (Results 94)
Search 7: 6 AND (TAC= (handle AND sleeve AND flange)) (Results 0)
Search 8: 6 AND TAC=(shower OR douse# OR bath) (Results 3)
Search 9: TAC=((water AND flow AND control) AND (ball WF2 valve)) and PD<20151105 and IC=(F16K5 OR B05B1) (Results 123)
Search 10: 9 AND (TAC= (handle AND sleeve AND flange)) (Results 1)
Search 11: FT=((water AND flow AND control) AND ((ball WF2 valve) W4 turn#)) and PD<20151105 and IC=(F16K5 OR B05B1) (Results 48)

Title: Ball-cock to separate out harmful fluids - has automatically opening and closing outlet valve

Abstract: Source: DE4127114A1 The ball-cock has a housing for connecting to pipelines. The outlet valve (12) associated with the outlet is opened and closed by an automatic **control** e.g. switch cams (14,15) in dependence on the rotary movement of the stopcock plug. A ventilation valve (13) used to ventilate the leakage chamber (9) can be associated with the same or similar automatic **controls**. The automatic **control** system could also be a switch axis with switch bolt rotationally secured in the centre axis of the stopcock plug wherein a switch bolt on the coupling **controls** the ventilation valve. USE/ADVANTAGE - Reliable complete emptying of the leakage chamber to avoid waste during change-over.

Classifications:
International (IPC 8-9): F16K5/06 (Advanced/Invention);
F16K5/06 (Core/Invention)
International (IPC 1-7): F16K5/06
CPC: F16K5/0605
European: F16K5/06B



Family:

Publication number	Publication date	Application number	Application date
DE4127114 A1	19930218	DE19914127114	19910816

Priority:

DE19914127114 19910816

Probable Assignee: SUEDMO SCHLEICHER AG

Assignee(s): (std): SUEDMO SCHLEICHER AG

Assignee(s): SUEDMO SCHLEICHER AG 7081 RIESBUERG DE

Inventor(s): (std): SCHLEICHER KARL ; ZAHNER STEFAN ING GRAD

Inventor(s): ZAHNER STEFAN ING GRAD 8860 NOERDLINGEN DE ; SCHLEICHER KARL DIPL KAUFM DIPL ING 7081 RIESBUERG ; SCHLEICHER KARL DIPL KAUFM DIPL ING

Title: Firefighting nozzle

Abstract: Source: US5261494A A firefighting nozzle includes a nozzle body having a centrally formed jet orifice at its outlet end. An annular fog spray opening concentrically surrounds the jet orifice. A jet **control** valve activated by a trigger is provided for allowing selective variation of the diameter of the solid stream emitted from the jet orifice. A fog **control** valve activated by a twist handle is provided for selectively varying the intensity of the discharge from the fog spray opening. The jet **control** valve and the fog **control** valve are operable independently of and simultaneously with one another, so that either a variable diameter solid stream or a variable fog cone, or both, can be produced at once.

Classifications:

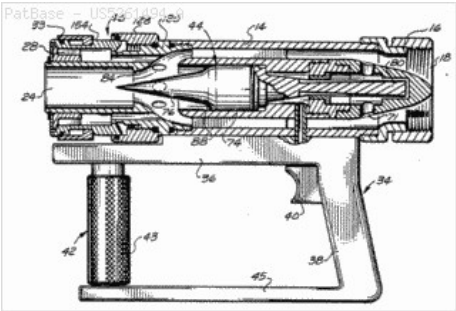
International (IPC 8-9): A62C31/03 A62C31/05 B05B1/30 (Advanced/Invention)

International (IPC 1-7): A62C31/05 A62C31/12

CPC: B05B1/3006 A62C31/03 A62C31/05 Y10T137/3367 Y10T137/87877

European: A62C31/03 A62C31/05 B05B1/30A

US: 137/219 137/883 169/13 169/70 239/310 239/414 239/444 239/453 251/129.11 251/215 251/35 251/44



Family:

Publication number	Publication date	Application number	Application date
US5261494 A	19931116	US19910731492	19910717
US5447203 A	19950905	US19930050974	19930419
US5590719 A	19970107	US19930161482	19931206

Priority:

US19910731492 19910717 US19930050974 19930419 US19930161482 19931206

Probable Assignee: ROM ACQUISITION CORP

Assignee(s): (std): MCLOUGHLIN JOHN E ; ATHANASIADES NEOCLES G

Assignee(s): BNP PARIBAS ADMINISTRATIVE AGENT AS ; JNT LINK LLC ; ROM ACQUISITION CORP ; NXT CAPITAL LLC AGENT AS ; OCM FIE LLC ADMINISTRATIVE AGENT AS

Inventor(s): (std): ATHANASIADES NEOCLES G ; MCLOUGHLIN JOHN E

Title: VENTED BALL VALVE WITH LOCK-OUT RING

Abstract: Source: US5360036A The present invention relates to a vented ball valve and lockout ring assembly. A vented valve assembly including a valve body having a vent hole therein, and first and second flow-through ends with a valve member receiving chamber thereinbetween, and a stem receiving passage communicating with the chamber. A valve member is disposed within the chamber. The valve member has a throughbore therein in operable alignment with the first and second flow-through ends and at least one valve member vent hole through the wall of the valve member in flow communication with the throughbore. A stem extends through and is rotatably mounted within the stem receiving passage and engageable with the valve member for rotating the valve member in and out of flow-through alignment. A venting means in cooperation with said stem provides selected flow communication with the atmosphere through the valve body vent hole, between the stem and stem receiving passage, through the chamber, and through said valve body vent hole to the flow-through ends. A removable, generally "d" shaped lock-out ring having a circular main body with a projection having a hole therein extending outward therefrom is rotatably and coaxially mounted around a valve body and positioned between the stem and union nut and alignable with a hole formed in the handle when the valve is in the closed position, whereby a locking member of a padlock can be inserted through the hole in the locking ring and the hole in the handle to prevent rotation of the handle and opening of the valve.

Classifications:

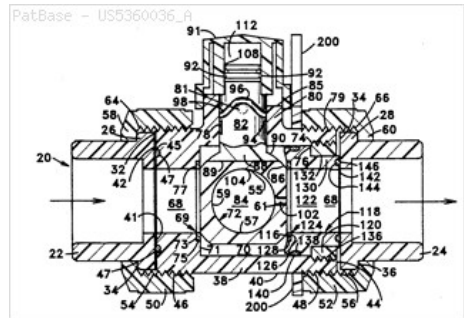
International (IPC 8-9): F16K1/14 F16K1/36 F16K24/02 F16K35/06 F16K5/06 (Advanced/Invention); F16K24/00 F16K35/00 F16K5/06 (Core/Invention)

International (IPC 1-7): F16K1/14 F16K1/36 F16K11/02 F16K35/00

CPC: Y10T137/6035 Y10T137/7256 Y10T137/86638 Y10T137/86646 F16K5/0605 F16K24/02 F16K35/06

European: F16K24/02 F16K35/06 F16K5/06B

US: 137/315 137/315.18 137/385 137/625.21 137/625.22 251/148 251/90



Family:

Publication number	Publication date	Application number	Application date
CA2094443 AA	19940225	CA19932094443	19930420
CA2094443 C	20031014	CA19932094443	19930420
US5360036 A	19941101	US19920934789	19920824
US5427135 A	19950627	US19930157565	19931124

Priority:

US19920934789 19920824 CA19932094443 19930420 US19930157565 19931124

Probable Assignee: NIBCO

Assignee(s): (std): NIBCO

Assignee(s): NIBCO INC ; NIBCO INC AN INDIANA CORP ; KIEPER DOUGLAS A

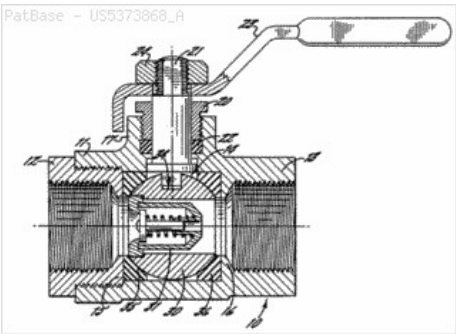
Inventor(s): (std): KIEPER DOUGLAS A

Agent(s): PERLEY ROBERTSON HILL AND MCDOUGALL LLP

Title: BALL VALVE WITH MODULAR CHECK VALVE ASSEMBLY AND ACCESS PORT

Abstract: Source: US5373868A A ball valve is provided with an internal check valve which is of modular construction and with an external valve casing that includes a lateral extension defining an access port. The modular check valve assembly is threadably connected to the ball and the lateral extension is closed with a threadable closure. The threadable closure for the lateral extension and the threadable check valve assembly both have sockets to receive access tools and both sockets preferably have the same unique tamper proof configuration to receive the same access tool.

Classifications:
International (IPC 8-9): F16K15/18 F16K5/06 (Advanced/Invention); F16K15/00 F16K5/06 (Core/Invention)
International (IPC 1-7): F16K5/06
CPC: F16K5/0605 F16K15/188 Y10T137/7933 Y10T137/8803
European: F16K15/18F F16K5/06B
US: 137/543 137/614.17



Family:

Publication number	Publication date	Application number	Application date
US5373868 A	19941220	US19930160775	19931203

Priority:

US19930160775 19931203

Probable Assignee: RODRIGUEZ ARTHUR T

Assignee(s): (std): RODRIGUEZ ARTHUR T ; RODRIGUEZ BERTITO T ; RODRIGUEZ ERNESTO T ; RODRIGUEZ HERODUTOS T ; RODRIGUEZ OLIVER T

Assignee(s): ARTHUR T RODRIGUEZ

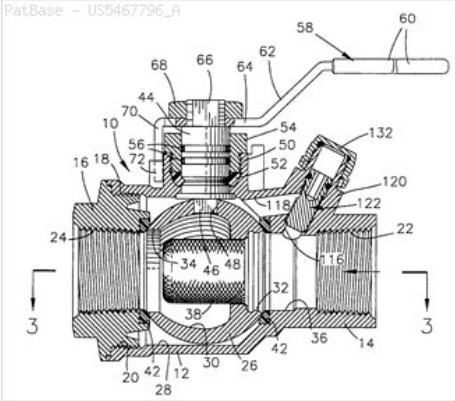
Inventor(s): (std): RODRIGUEZ BERTITO T

Title: BALL VALVE WITH A STRAINER AND INTEGRATED MEANS FOR FLUSHING THE STRAINER

Abstract: Source: US5467796A A ball valve having a valve body defining a ball valve chamber and having a longitudinal axis defined by inlet and outlet passages. A ball valve element is rotatably disposed in said valve chamber. The ball valve element has a diametrically disposed fluid passage and is operatively connected to a **control** lever for rotating the ball valve element between a closed position and an open position. A basket strainer is removably mounted in the ball element passage in the ball valve element. The ball valve is provided with an internal pilot fluid flush passage that connects an inlet port to the ball valve chamber, and a pilot fluid flush discharge port and discharge valve that communicate with the ball valve chamber. A **flow control** plug valve is movably mounted in the internal pilot fluid flush passage for selective allowing or preventing fluid **flow** therethrough. When the ball valve element is rotated to a closed position, the **flow control** plug valve may be moved to an open position to allow upstream fluid to **flow** through the inlet port and internal pilot fluid flush passage and into the ball valve element chamber and through the basket strainer and out the pilot fluid flush discharge port, to reverse flush out debris captured by the basket strainer.

Classifications:

International (IPC 8-9): F16K5/06 F16K5/08 F16K51/00 (Advanced/Invention);
F16K51/00 (Advanced/Non-invention);
F16K5/06 F16K51/00 (Core/Invention)
International (IPC 1-7): B01D29/66 B01D35/04 B01D35/28 B08B3/04 E03B7/07
F16K5/00 F16K5/06 F16K5/08 F16K51/00
CPC: Y10T137/4245 Y10T137/6035 Y10T137/6058 Y10T137/8049 Y10T137/87877
Y10T137/87909 F16K5/0605 F16K27/067
European: F16K5/06B
US: 134/166C 137/238 137/315 137/315.18 137/315.25 137/547 137/883 137/887
210/409 251/315.01



Family:

Publication number	Publication date	Application number	Application date
AU199645834 A1	19961017	AU19960045834	19960229
AU675046 B2	19970116	AU19960045834	19960229
CA2170428 AA	19960925	CA19962170428	19960227
CA2170428 C	19980623	CA19962170428	19960227
GB2299152 A1	19960925	GB19960003915	19960223
GB2299152 B2	19970618	GB19960003915	19960223
GB9603915 A0	19960424	GB19960003915	19960223
JP2681265 B2	19971126	JP19960064562	19960321
JP9021469 A2	19970121	JP19960064562	19960321
SG55107 A1	19981221	SG19960006398	19960322
US5467796 A	19951121	US19950410489	19950324

Priority:

US19950410489 19950324 CA19962170428 19960227

Probable Assignee: HYDRONIC COMPONENTS INC

Assignee(s): (std): HYDRONIC COMPONENTS INC ; PETTINAROLI SPA

Assignee(s): PETTINAROLI GIUSEPPE ; SHERMAN JOHN CHARLES ; PETTINAROLI S P A FLLI ; PETTINAROLI FLLI SPA ; FRATELLI PETTINAROLI S P A ; FURATERI PETEINARORI SPA ; HAIDORONITSUKU KONPONENTSU INC

Inventor(s): (std): PETTINAROLI GIUSEPPE ; SHERMAN JOHN C ; SHERMAN JOHN CHARLES

Inventor(s): GIUSEPPE PETTINAROLI ; JIYON CHIYAARUSU SHIYAAMAN ; JIYUSEPA PETEINAROI ; JOHN CHARLES SHERMAN

Agent(s): GRIFFITH HACK; BORDEN LADNER GERVAIS LLP

Title: Stem extension for quarter-turn valves

Abstract: Source: US5482251A A rotatable **control** device or valve including a body housing a **control** mechanism and a rotatably mounted **control** shaft connected to the **control** mechanism. Stops are spaced circumferentially relative to the **control** shaft. A stop arm is operably connected to the **control** shaft and engages the stops to limit rotational movement of the **control** mechanism between first and second positions. An elongated extension is drivingly connected to the stop arm, and an elongated operating handle is connected to the extension with the orientation of the longitudinal axis of the operating handle corresponding in a predetermined relationship to the position of the **control** member. A registration mechanism permits the extension to be drivingly connected to the stop arm only when the orientation of the longitudinal axis of the operating handle corresponds in the predetermined relationship to the position of the **control** means.

Classifications:

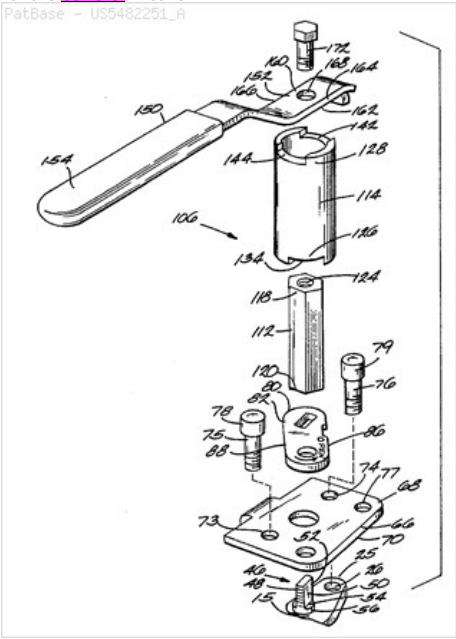
International (IPC 8-9): F16K35/06 F16K5/06 (Advanced/Invention); F16K35/00 F16K5/06 (Core/Invention)

International (IPC 1-7): F16K31/46 F16K5/06 F16K51/00

CPC: F16K5/0647 F16K35/06

European: F16K35/06 F16K5/06G

US: 251/288 251/293



Family:

Publication number	Publication date	Application number	Application date
CA2155816 AA	19960212	CA19952155816	19950810
US5482251 A	19960109	US19940288684	19940811

Priority:

US19940288684 19940811 CA19952155816 19950810

Probable Assignee: MILWAUKEE VALVE CO INC

Assignee(s): (std): MILWAUKEE VALVE

Assignee(s): MILWAUKEE VALVE CO INC ; MILWAUKEE VALVE COMPANY INC ; ROBERTS JOHN L ; LASALLE BANK NATIONAL ASSOCIATION

Inventor(s): (std): ROBERTS JOHN L

Agent(s): SMART AND BIGGAR

Title: BALL VALVE WITH INTEGRATED REMOVABLE FLOW VENTURI, FLOW BALANCING MEANS, AND PIPE UNION MEANS

Abstract: Source: US5533549A A valve assembly for use in heating, ventilating and air conditioning systems. The valve assembly includes a valve body having a chamber in which is rotatably mounted a quarter-turn flow control ball valve. A valve body nut having an outlet port is threadably mounted on the valve body adjacent the outlet end of the valve body chamber. A flow venturi is removably mounted in the inlet end of the valve body. A pipe union tailpiece is detachably mounted on the inlet end of the valve body. A pair of pressure/temperature readout ports are mounted on the valve body for use in determining the rate of fluid flow through the venturi. A vent plug is mounted on the valve body for venting air from the ball valve chamber.

Classifications:

International (IPC 8-9): F16K24/02 F16K27/06 G01F1/44

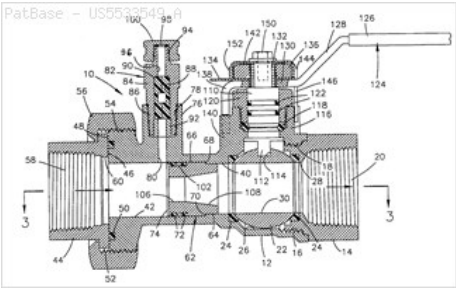
G01F15/00 (Advanced/Invention)

International (IPC 1-7): F16K24/02 F16K27/06 F16K37/00 F16K5/06 F16K5/10 G01F1/44 G05D7/01

CPC: Y10T137/8309 Y10T137/8326 G01F15/005 F16K27/067 G01F1/44

European: F16K27/06D G01F1/44 G01F15/00C

US: 137/556.6 137/557 251/118 251/315.14 73/861.63



Family:

Publication number	Publication date	Application number	Application date
AU199642191 A1	19960815	AU19960042191	19960125
AU674277 B2	19961212	AU19960042191	19960125
CA2167326 AA	19960727	CA19962167326	19960116
CA2167326 C	19990608	CA19962167326	19960116
GB2297374 A1	19960731	GB19950025990	19951219
GB2297374 B2	19970319	GB19950025990	19951219
GB9525990 A0	19960221	GB19950025990	19951219
US5533549 A	19960709	US19950378776	19950126
USRE37617 E	20020402	US19980120590	19980709

Priority:

US19950378776 19950126 CA19962167326 19960116 US19980120590 19980709

Probable Assignee: HYDRONIC COMPONENTS INC

Assignee(s): (std): HYDRONIC COMPONENTS INC ; SHERMAN JOHN C

Assignee(s): SHERMAN JOHN CHARLES

Inventor(s): (std): JOHN CHARLES SHERMAN ; SHERMAN JOHN C ; SHERMAN JOHN CHARLES

Agent(s): GRIFFITH HACK; BORDEN LADNER GERVAIS LLP

Title: FOAM GUN TIP ASSEMBLY

Abstract: Source: US5645199A A foam gun tip assembly capable of quickly mounting various kinds of foam-dispensing tubes.

Classifications:

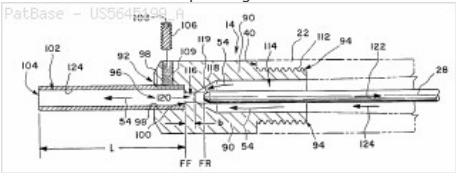
International (IPC 8-9): B05B1/30 B05B15/06 B05B7/00 (Advanced/Invention); B05B1/30 B05B15/00 B05B7/00 (Core/Invention)

International (IPC 1-7): B67D5/00

CPC: B05B7/0018 B05B15/065 B05B1/3046

European: B05B1/30D1A B05B15/06B B05B7/00C

US: 222/567



Family:

Publication number	Publication date	Application number	Application date
US5645199 A	19970708	US19950378280	19950126

Priority:
US19950378280 19950126

Probable Assignee: SCHNITZLER PAUL J

Assignee(s): SCHNITZLER PAUL J

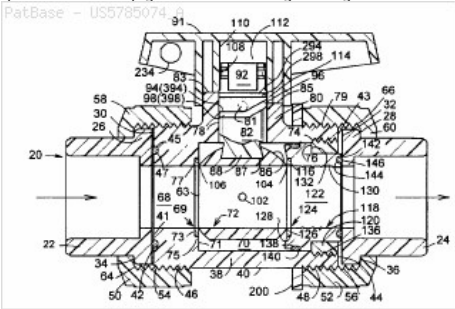
Inventor(s): (std): SCHNITZLER PAUL J



Title: VENTED BALL VALVE WITH LOCK-OUT RING

Abstract: Source: US5785074A The present invention relates to a ball valve with a shear stem which can be utilized in combination with a conventional ball valve or vented ball valve. The ball valve with a shear stem is utilized with a conventional ball valve or a vented valve assembly including a valve body having a vent hole therein. The ball valve defines a body having first and second **flow**-through ends with a valve member receiving chamber thereinbetween, and a collar defining a stem receiving passage communicating with the chamber. A valve member such as a ball or cylindrical plug is disposed within the chamber. The valve member has a throughbore therein in operable alignment with the first end second **flow**-through ends. The vented ball valve embodiment has at least one valve member vent hole through the wall of the valve member in **flow** communication with the throughbore. A shear stem extends through and is rotatably mounted within the stem receiving passage and engageable with the valve member for rotating the valve member in and out of **flow**-through alignment. The vented valve embodiment includes a venting means in cooperation with the shear stem providing selected **flow** communication with the atmosphere through the valve body vent hole, between the shear stem and stem receiving passage, through the chamber, and through said valve body vent hole to the **flow**-through ends. The shear stem includes a first lower continuous primary groove circumventing the stem for cooperative engagement with a primary O-ring providing a seal between the stem and the collar and a second higher continuous secondary groove circumventing the stem for cooperative engagement with a secondary O-ring. The continuous secondary groove is deeper, thicker, or shaped in a particular configuration in order to shear before the continuous primary groove in order to provide a safety means for preventing gas or liquid leakage due to shearing of the stem. In the vented ball valve embodiment the O-ring groove having an axial offset portion also serves to function as the primary groove to be used in combination with a circumferential secondary groove having a secondary O-ring. The conventional ball valve embodiment utilizes a pair of spaced apart circumferential grooves providing for a primary and secondary groove and O-ring arrangement.

Classifications:
International (IPC 8-9): F16K24/02 F16K5/06 (Advanced/Invention); F16K24/00 F16K5/06 (Core/Invention)
International (IPC 1-7): F16K11/02 F16K41/00 F16K5/06
CPC: F16K5/0605 F16K5/0647 F16K24/02 Y10T137/1632 Y10T137/5762 Y10T137/7256 Y10T137/86646
European: F16K24/02 F16K5/06B F16K5/06G
US: 137/312 137/385 137/625.22 137/68.11 251/214 251/315.14



Family:

Publication number	Publication date	Application number	Application date
US5785074 A	19980728	US19970774734	19970102

Priority:

US19970774734 19970102

Probable Assignee: NIBCO INC

Assignee(s): (std): NIBCO

Assignee(s): NIBCO INC

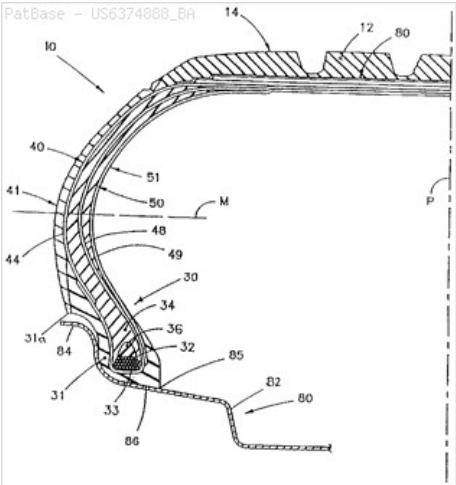
Inventor(s): (std): KIEPER DOUGLAS A

Title: TIRE BEAD CORE AND FILLER CONSTRUCTION

Abstract: Source: US6374888B The run-flat tire (10) of this invention includes spaced apart bead areas (30) having a unique design to include first (34) and second (36) bead fillers adjacent a bead core (32). The second bead filler (36) is bounded by the first bead filler (34) and bead core (32). The method for manufacturing the tire to eliminate voids at the bead core (32) of the cured tire is also provided. The bead fillers are made to be resilient so that the tire can be easily mounted on a rim, particularly improving the ability to mount a run-flat tire (10) on a rim (80). The bead core (32) and fillers (34, 36) are designed for helping to sustain the run-flat tire (10) on the rim (80) with a loss of inflation pressure and to improve the running performance of the tire.

Classifications:

International (IPC 8-9): B29D30/20 B60C15/00 B60C15/06 B60C17/00 B60C17/06 E03C1/04 E03C1/05 F16K11/22 F16K31/46 F16K31/60 (Advanced/Invention); B29D30/20 E03C1/04 E03C1/05 F16K11/10 F16K31/44 F16K31/60 (Core/Invention)
International (IPC 1-7): A47K3/00 A47K3/22 B05B1/30 B29D30/20 B60C15/06 B60C17/06 E03C1/05 F16K11/22 F16K31/46 F16K31/60
CPC: B60C17/0009 B60C15/0072 B29D2030/201 B60C15/06 Y10T137/7062 E03C1/0412 E03C1/041 F16K31/46 B60C15/0607
European: B60C15/00A12 B60C15/06 B60C17/00 E03C1/04 E03C1/04F E03C1/04H F16K31/46 L29D30/20A
US: 137/382 152/517 152/541 156/111 156/123 156/132 156/135 239/578 251/148 251/293 251/92 4/605



Family:

Publication number	Publication date	Application number	Application date
AU199926963 A1	19991111	AU19990026963	19990504
AU199935129 A1	19991123	AU19990035129	19990504
AU333598 A0	19980528	AU1998PP03335	19980505
AU704128 B1	19990415	AU19980089316	19981016
AU704128 B3	19990415	AU19980089316	19981016
AU747130 B2	20020509	AU19990026963	19990504
CA2294794 AA	19991230	CA19982294794	19980601
CA2294794 C	20040907	CA19982294794	19980601
DE69812974 D1	20030508	DE19986012974	19980601
DE69812974 T2	20040212	DE19986012974T	19980601
EP1009642 A1	20000621	EP19980926140	19980601
EP1009642 A4	20000816	EP19980926140	19980601
EP1009642 B1	20030402	EP19980926140	19980601
ES2196564 T3	20031216	ES19980926140T	19980601
US6374888 BA	20020423	US20000462230	20000518
US6474621 BA	20021105	US20000674683	20001103
WO9856604 A1	19981217	WO1998US11074	19980601
WO9956604 A1	19991111	WO1999AU00327	19990504

Priority:

US19970051617P 19970613	AU1998PP03335 19980505	AU19980089316 19981016
AU19990026963 19990504	WO1999AU00327 19990504	WO1998US11074 19980601
AU19990035129 19990504	US20000462230 20000518	

Probable Assignee: TIPPS DANIEL

Assignee(s): (std): MICHELIN RECH TECH ; CRADDOCK JEFFREY SCOTT ; ENDICOTT JAMES MILO ; WILLARD WALTER LEE JR ; VOGEL JORDAN WALTER GEORGE ; WATERGATE ENVIROSHOWER PTY LTD

Assignee(s): TIPPS DANIEL ; ENVIROSHOWER PTY LTD ; MICHELIN RECHERCHE ET TECHNIQUE ROUTE LOUIS ; MICHELIN RECHERCHE ET TECHNIQUE SA ; TIPPS DANIEL ; MICHELIN RECHERCHE ET TECHNIQUE S A ; MICHELIN RECHERCHE ET TECHNIQUE S A GRANGES PACCOT

Inventor(s): (std): CRADDOCK JEFFREY SCOTT ; CRADDOCK SCOTT ; ENDICOTT JAMES MILO ; ENDICOTT MILO ; JORDAN WALTER GEORGE VOGEL ; VOGEL JORDAN WALTER GEORGE ; WILLARD JR WALTER LEE ; WILLARD LEE ; WILLARD WALTER LEE JR

Agent(s): WATERGATE ENVIROSHOWER PTY LTD; WATERGATE ENVIROSHOWER PTY LT; ROBIC

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZA ZW

Title: STRUCTURE OF FAUCET

Abstract: Source: US5873389A A faucet including a faucet body defining a ball socket between a **water** intake port and a **water** output port, a ball valve mounted in the ball socket and retained between two rigid gasket members, a packing nut fastened to the ball socket to hold down the rigid gasket members and the ball valve, and a handle coupled to the ball valve and moved vertically to **turn** the **ball valve** between a first position where the **water** passage between the **water** intake port and the **water** output port is stopped by the ball valve, and a second position where the ball valve imparts a **water** passage in communication between the **water** intake port and the **water** output port.

Classifications:

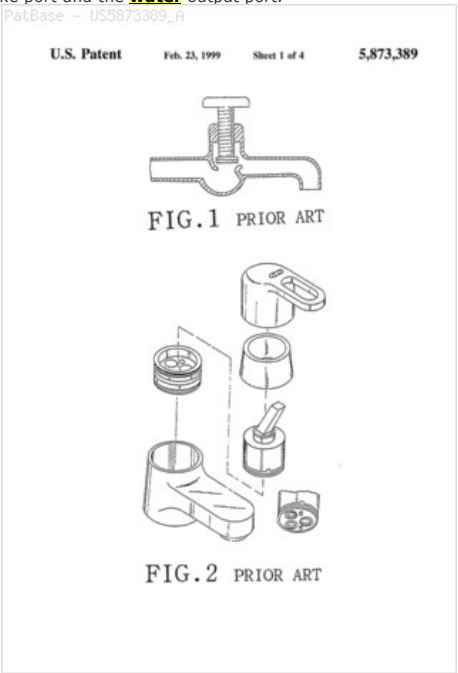
International (IPC 8-9): F16K3/22 F16K5/06 (Advanced/Invention);
F16K3/00 F16K5/06 (Core/Invention)

International (IPC 1-7): F16K3/22

CPC: F16K3/22 F16K5/061 Y10T137/9464

European: F16K3/22 F16K5/06C

US: 137/801 251/315.06 251/315.12



Family:

Publication number	Publication date	Application number	Application date
US5873389 A	19990223	US19970992846	19971218

Priority:

US19970992846 19971218

Probable Assignee: CHENG TSAN HSIUNG

Assignee(s): (std): CHENG TSAN HSIUNG

Inventor(s): (std): CHENG TSAN HSIUNG