

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO	
RAD: 14-2560- -4	FECHA: 2016-03-08 12:16:32
DEP: 2020 DIRECCION DE NUEVAS CREACIONES	EVE: 1 REGISTRO/DEPOSITO/CONCESION/DEPOSITO
TRA: 2 PATENTES DE INVENCION	FOLIOS: 5
ACT: 519 TRASLADOINFORME	

DIRECCIÓN DE NUEVAS CREACIONES

2020
Bogotá, D.C.,

Abogado(a)/Señor(a)
JUAN PABLO CADENA SARMIENTO

Asunto: Radicación: 14-2560- -4
Trámite: 2
Evento: 1
Actuación: 519
Oficio: 2340
Folios: 5

Patente de Invención	X			Patente de Modelo de Utilidad	
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 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se comunica:

1. Documentos estudiados

Descripción:	Rad. N° 14-002560-00000-0000	08/enero/2014
Reivindicaciones:	Rad. N° 14-002560-00000-0000	08/enero/2014
Dibujos:	Rad. N° 14-002560-00000-0000	08/enero/2014
Prioridad(es):	FR 1350143	08/enero/2013

2. Análisis de la Prioridad

Se acepta la reivindicación de prioridad porque ésta solicitud fue presentada dentro del plazo establecido (Art. 9 D 486) y su contenido técnico corresponde con el de la prioridad reivindicada.

3. 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 19.

Título de la solicitud: “Válvula que incluye un dispositivo para inmovilizar un muñón, instalación de conversión de energía/red de distribución de fluido que incluye la citada válvula y método de desmontar la citada válvula” (Ver página 1 del radicado N°14-002560-0000).

El problema planteado en esta solicitud consiste en la necesidad de proporcionar una válvula de control de fluido que permita realizar en seco, es decir sin fluido dentro de ella, las operaciones de mantenimiento de la misma, pero que no suspenda la circulación del fluido a otros puntos del circuito.

Para resolver este problema técnico, la solicitud en estudio proporciona una válvula integrada en una red de distribución de fluido y permite la interrupción selectiva o autorización de la circulación de un fluido; incluye un miembro de bloqueo de fluido accionado en rotación por un dispositivo actuador de la válvula y por lo menos un muñón, un cuerpo hueco dentro del cual el miembro de bloqueo puede moverse y que define por lo menos un agujero circular para alojar el muñón, y un rodamiento dispuesto alrededor de cada muñón y dentro del agujero circular del cuerpo que permite el soporte del muñón y la guía del mismo en rotación en relación con el agujero circular, centrando en esa forma el muñón. La válvula incluye además un dispositivo para inmovilizar y sellar para mantenimiento el muñón en relación con el cuerpo de la válvula, estando este dispositivo de inmovilización al mismo lado del rodamiento que el volumen interno del cuerpo hueco y pudiéndose maniobrar mediante el rodamiento para pasar de una primera configuración no prensada a una segunda configuración prensada, en la cual inmoviliza el muñón en el agujero circular y viceversa.

El objeto de la presente solicitud se relaciona con la Clasificación Internacional de Patentes (CIP): F 16 K 17/00.

4. De la solicitud de patente

Reivindicaciones (Art 30 D 486, Art 22 PCT)

Las frases “(...) para soportar el muñón (20) y guiar su rotación en relación con el agujero circular (A26), centrando así el muñón (20)”, “(...) para pasar desde una primera configuración no prensada, en la cual no se opone a la rotación del muñón (20) en el agujero circular (A26), a una segunda configuración prensada en la cual inmoviliza el muñón (20) en el agujero circular (A26) y pasar desde la segunda configuración a la primera configuración.”, en la reivindicación 1, “(...) que controla el elástico deformable del manguito”, “(...) adaptada para ejercer sobre el manguito (314 o 322) una fuerza de deformación (F2) que bloquea el manguito (314, 322) contra un elemento (26) que define el agujero circular (A26) o contra el muñón (20) en la segunda configuración del dispositivo de inmovilización (30)”, en la reivindicación 2, “(...) se puede mover desde la segunda posición a la primera”, en la reivindicación 7, “(...) y que permite la indicación del dispositivo de inmovilización (30) estando en su primera configuración”, en la reivindicación 9, “(...) que permite el balanceo de la presión del fluido en cualquier lado del dispositivo de inmovilización (30)”, revelan características técnicas funcionales. Al respecto debe aclararse que las funcionalidades pueden estar presente en la reivindicación pero no son válidas para brindarle novedad y/o nivel inventivo al dispositivo o producto reclamado, dado que, que cuando se reivindica un producto, las funcionalidades sirven para entender la relación que hay entre los diferentes elementos estructurales de dicho producto, pero son solo los elementos técnicos esenciales

estructurales los que definen a dicho producto haciendo a tales funcionalidades opcionales.

Las reivindicaciones 5, 6 que respectivamente mencionan “(...) *el anillo del actuador (304) se puede mover axialmente (F1) a lo largo de un eje (X30) paralelo al eje de rotación (X-X) del muñón (20) y empuja cada manguito (314, 322) radialmente contra el elemento (26) que define el agujero circular (A26) y contra el muñón (20), respectivamente, cuando el dispositivo de inmovilización (30) pasa desde su primera configuración a su segunda configuración*”, “(...) *el dispositivo de inmovilización (30) se puede maniobrar para pasar desde su primera configuración a su segunda configuración y, viceversa, mediante por lo menos un miembro maniobrable (34, 36) que atraviesa axialmente una camisa interior (32; 32') que es parte del rodamiento (31; 31')*”, divulgan ventajas técnicas de la invención reclamada, por tanto, como se dijo anteriormente, no son válidas para brindarle novedad y/o nivel inventivo al objeto de la presente solicitud ya que la misma debe estar reclamada en términos de sus características técnicas estructurales esenciales.

El término: “por lo menos”, en la reivindicación 1, 2, 10, 12, 15, es impreciso, por lo cual no permite distinguir la invención del estado de la técnica. Se sugiere sustituirlo por un término preciso o un rango concreto.

La frase “(...) *en la cual el fluido puede fluir dentro del dispositivo de inmovilización*” en la reivindicación 7, es un resultado a alcanzar y no define a la válvula, puesto que la reivindicación incluiría no sólo la solución propuesta por el solicitante, sino todas las alternativas presentes o futuras que lleguen a ese resultado. Se sugiere reemplazarlo por las características esenciales, estructurales o funcionales, que contribuyen a la obtención de ese efecto.

En la reivindicación 14 la frase “(...) *cuando es necesario*” no es limitante, puesto que hace opcional la presencia de la varilla y no limita el alcance de la reivindicación, por lo tanto, sugiere de forma imprecisa que la protección se extiende a otras posibles variaciones o modificaciones.

La reivindicación 17 que reclama un método a partir de un aparato así “*Un método para desmontaje parcial de una válvula (2, 4) como se reivindica en una cualquiera de las reivindicaciones 1 a 15, incluyendo este método los pasos de: a) - poner un miembro de bloqueo en una parte corriente abajo del cuerpo hueco (24), b) - balancear la presión del agua en cualquier lado del miembro de bloqueo (22), caracterizado por que este método incluye además los pasos de: c) - maniobrar el dispositivo de inmovilización (30) de tal manera que pase desde su primera configuración a su segunda, d) - retirar el rodamiento (31; 31')*”, no es clara y no es válida, puesto que está mezclando dos tipos de categorías diferentes de reivindicaciones: de procedimiento y de producto. Es importante destacar que las reivindicaciones de producto y de proceso o método deben reclamarse en reivindicaciones independientes con sus dependientes respectivas. Con respecto a lo anterior el Tribunal Andino de Justicia ha dicho lo siguiente:

“El objeto de la invención de producto está constituido por un cuerpo cierto destinado a llenar una necesidad industrial que el estado de la técnica aún no ha satisfecho. En cambio, el objeto de la invención de procedimiento se encuentra conformado por “una serie o sucesión de operaciones que inciden sobre una materia (sólida, líquida o gaseosa) que se encamina a la obtención de una cosa o un resultado”. (Otero Lastres, José Manuel. Ob. Cit)⁽¹⁾.

Las reivindicaciones 18 y 19 que respectivamente mencionan “(...) *que la válvula es como se reivindica en una cualquiera de las reivindicaciones 7 u 8 y porque el método*

1 Proceso 129-IP-2007

incluye además un paso e) después del paso b) y antes del paso c) que consiste en purgar el fluido dentro del dispositivo de inmovilización (30)", "(...) la válvula es como se reivindica en una cualquiera de las reivindicaciones 7 u 8 y porque el método incluye además un paso f) después del paso c) y antes del paso d) que consiste en maniobrar el mecanismo de sellamiento de manera que pase desde su primera posición a su segunda", no son claras, ni válidas para definir la invención, ya que dependen de la reivindicación 17 y ésta última depende falsamente de la reivindicación 1, por las razones anteriormente descritas. Se sugiere definir el método en una reivindicación independiente, definido por una serie de etapas mediante las cuales se obtenga un fin o resultado.

5. Determinación del Estado de la Técnica

El estado de la técnica se determinó con base en la fecha de presentación de la solicitud de prioridad: 08 de enero de 2013, 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.

6. 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 sesenta (60) días contados a partir del día siguiente 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, no deberá pagar la tasa de modificación voluntaria pero sí la correspondiente a la tasa de examen de patentabilidad para que se estudie la materia modificada. En todo caso, el número de requerimientos por no patentabilidad estará supeditado a que el término del estudio de patentabilidad no sea superior a 18 meses, contados desde la publicación de la solicitud de patente de invención. 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.

Se invita al solicitante se sirva indicar, si así lo considera, su renuncia al término faltante de sesenta (60) días para dar respuesta a este requerimiento y presentarla por escrito.

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 2016-03-15

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

Diego Cardenas

Search history

- Search 1: TAC=(Valve AND rotary AND (shutoff OR cutoff) AND (block* member)) and PD<20130107 and CC=(FR) and IC=(F16K) (Results 1)
- Search 2: TAC=((shutoff OR cutoff) AND Valve AND rotary AND (block* member)) and PD<20130107 and CC=(FR) and IC=(F16K) (Results 1)
- Search 3: FT=((shutoff OR cutoff) AND Valve AND rotary AND (block* member)) and PD<20130107 and CC=(FR) and IC=(F16K) (Results 3)
- Search 4: FT=((shutoff OR cutoff) AND Valve AND rotary AND (block* member)) and PD<20130107 and CC=(FR) and IC=(F16K) (Results 3)
- Search 5: FT=((shutoff OR cutoff) AND Valve AND rotary AND (block* member)) and PD<20130107 and IC=(F16K) (Results 29)
- Search 6: FT=((shut* OR cut* OR check*) AND Valve AND rotary AND (block* member) AND (journal OR pivot OR stump) AND (immobil* OR seal*)) and PD<20130107 and IC=(F16K) (Results 15)
- Search 7: FT=((shut* OR cut* OR check*) AND (valve OR fit*) AND rotary AND (block* member) AND (journal OR pivot OR stump) AND (immobil* OR seal*)) and PD<20130107 and IC=(F16K) (Results 16)
- Search 8: TAC=((shut* OR cut* OR check*) AND (Valve OR Fit*) AND rotary AND (block* member) AND (journal OR pivot OR stump) AND (immobil* OR seal*)) and PD<20130107 and IC=(F16K) (Results 2)
- Search 9: FT=((shut* OR cut* OR check*) AND (valve OR fit*) AND (rotary AND bear) AND (block* member) AND (journal OR pivot OR stump) AND (immobil* OR seal*)) and PD<20130107 and IC=(F16K) (Results 2)
- Search 10: FT=((shut* OR cut* OR check*) AND (valve OR fit*) AND (rotary OR rotat* AND bear*) AND (block* member) AND (journal OR pivot OR stump) AND (immobil* OR seal*)) and PD<20130107 and IC=(F16K) (Results 28)

Title: Fluid operated reciprocating motor with **rotary** reversing **valve**

Abstract: Source: US2521566A (Claim 1) 1. scribed, the inlet cavity 56 is open to communicate with the port 53, thus supplying active pressure fluid to the chamber 5 and causing movement of the piston to the right, Fig.

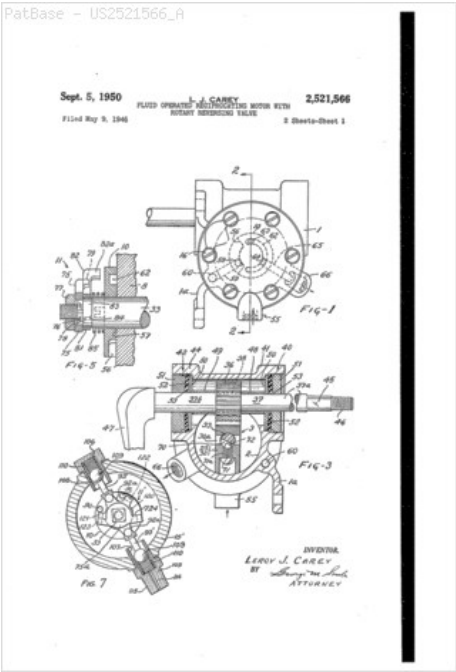
Classifications:

International (IPC 8-9): F16K11/07 (Advanced/Invention)

CPC: F16K11/07

European: 46D5Z F16K11/07

US: 91/327 91/342 91/347 91/349



Family:

Publication number	Publication date	Application number	Application date
US2521566 A	19500905	US19460668431	19460509

Priority:

US19460668431 19460509

Probable Assignee: MARQUETTE METAL PRODUCTS CO

Assignee(s): (std): MARQUETTE METAL PRODUCTS CO

Assignee(s): THE MARQUETTE METAL PRODUCTS COMPANY

Inventor(s): (std): CAREY LEROY J

Title: IMPROVEMENTS IN OR RELATING TO BALL VALVES

Abstract: Source: GB1294586A 1294586 Valves R DELECOURT 2 Feb 1970 [4 Feb 1969] 4944/70 Heading F2V In a ball valve having a closure member 8 whose pivots 9 and 10 are supported in needle bearings 11 and 12 respectively, sealing of the closure member is effected by means of two identical seat assemblies 17 and 18 which are slidable in the bores of respective rings 2 and 3 forming part of the valve housing. Seat assembly 17 is of annular formation, carries a ball-contacting seal 17a of plastics or graphite and a bore-sealing ring 19, and is urged towards the closure member by an L-shaped annular bearing plate 21 subjected to the action of a plurality of springs 22, the tension of each such spring 22 being adjustable by means of a screw 23. Removal of housing screws 2, and hence of flange couplings 4 and 5, facilitates access to the seat assemblies for the adjustment or removal thereof. In modifications (Fig. 2 to 6, not shown), various arrangements are indicated for subjecting the seat assemblies to a force directed towards the closure member with the force in each such arrangement being adjustable. Additionally (Fig. 2), the valve body is provided with plugged bores through which adjustment of the seat assembly tension may be effected without dismantling of the valve coupling flanges.

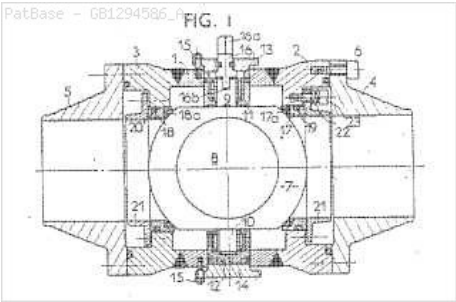
Classifications:

International (IPC 8-9): F16K5/06 F16K5/20 (Advanced/Invention); F16K5/00 F16K5/06 (Core/Invention)

International (IPC 1-7): F16K5/00 F16K5/20

CPC: F16K5/0626 F16K5/0673 F16K5/201

European: F16K5/06F F16K5/06J3 F16K5/20B



Family:

Publication number	Publication date	Application number	Application date
DE2003852 A1	19700806	DE19702003852	19700128
FR2061497 A1	19710625	FR19690002379	19690204
GB1294586 A	19721101	GB19700004944	19700202

Priority:

FR19690002379 19690204

Probable Assignee: DELECOURT ROGER

Assignee(s): (std): DELECOURT ROGER

Assignee(s): ROGER DELECOURT

Inventor(s): (std): DELECOURT ROGER

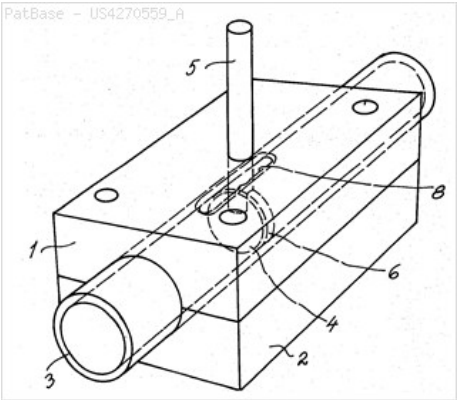
Inventor(s): ROGER DELECOURT

Title: METHOD FOR INSTALLING AN ADJUSTABLE FLOW RESTRICTING **VALVE** MEMBER IN A TUBULAR PIPE, AND A **VALVE** DEVICE FOR UTILIZATION OF THE METHOD

Abstract: Source: US4270559A A method for installing an adjustable flow restricting **valve** member in a tubular pipe, and a **valve** device for utilization of the method, including the steps of **cutting** a slot extending in the longitudinal direction of the tubular pipe, inserting a mainly plane **valve** member through said slot, said **valve** member being arranged with a stem extending through the slot and facilitating a **rotary** movement of the **valve** member from a position corresponding with the length axis of the tubular pipe to a position in contact with the internal wall surface of the tubular pipe, said stem also extending through a member arranged to prevent communication between a medium within the pipe and the outside atmosphere.

Classifications:

International (IPC 8-9): B23P19/00 B23P21/00 F16K1/22 F16K27/00 (Advanced/Invention); F16K1/22 F16K27/00 (Core/Invention)
International (IPC 1-7): B23P15/00 B23P19/00 B23P21/00 F16K1/22 F16K27/00 F16K27/12 F16K43/00 F16K5/00 F16K5/04 F16L29/00 F16L55/07 F16L55/10
CPC: Y10T29/49405 F16K1/22 Y10T137/0463 Y10T137/0525 Y10T137/6123
European: F16K1/22
US: 137/15 137/15.13 137/15.25 137/318 251/305 251/367 29/890.12



Family:

Publication number	Publication date	Application number	Application date
AU197946856 A1	19791115	AU19790046856	19790508
AU529678 B2	19830616	AU19790046856	19790508
CA1122386 A1	19820427	CA19790327182	19790508
CH631791 A	19820831	CH19790004316	19790508
DE2918366 A1	19791115	DE19792918366	19790507
FR2425594 A1	19791207	FR19790011650	19790508
GB2020400 A1	19791114	GB19790015846	19790508
GB2020400 B2	19820630	GB19790015846	19790508
IT1115986 A	19860210	IT19790048967	19790508
IT7948967 A0	19790508	IT19790048967	19790508
JP55010183 A2	19800124	JP19790055348	19790508
NL7903576 A	19791112	NL19790003576	19790508
SE423269 B	19820426	SE19780005232	19780508
SE423269 C	19820805	SE19780005232	19780508
SE7805232 A	19791109	SE19780005232D	19780508
TR21187 A	19831206	TR19790021187	19790508
US4270559 A	19810602	US19790035906	19790503
ZA7902171 A	19800528	ZA19790002171	19790507

Priority:
SE19780005232 19780508 CA19790327182 19790508

Probable Assignee: KURT AKE WALLBERG TE VALLENTUNA ZWEDEN

Assignee(s): (std): WALLBERG K ; WALLBERG K A ; WALLBERG KURT AAKE ; WALLBERG KURT AKE

Assignee(s): WALLBERG KURT PERCENT PERCENT AKE ; WALLBERG KA ; KURT AKE WALLBERG ; KURT AKE WALLBERG TE VALLENTUNA ZWEDEN

Inventor(s): (std): WALLBERG K ; WALLBERG KURT AAKE ; WALLBERG KURT AKE ; KURUTO AKE BUARUBERUKU ; RT AKE WALLBERG

Inventor(s): SOK ; KURT AKE WALLBERG ; WALLBERG KURT PERCENT PERCENT AKE

Agent(s): MARKS AND CLERK

Title: DOUBLE-ACTING **ROTARY** DRIVE FOR A CONTROL DEVICE

Abstract: Source: US4780785A A double-acting **rotary** drive for a control device having an end position fixed in the form of a stop, includes a motor, a torque-changing gear connected to the motor, a driver associated with the torque-changing gear for neutralizing a torque-increasing action of the torque-changing gear or switching on a torque-lowering action after the torque-changing gear rotates through a portion of a total given rotational path thereof, a return travel lock for locking the torque-changing gear in place being released before the driver becomes operative.

Classifications:

International (IPC 8-9): F16H3/00 F16K31/04 F16K31/53

G05G15/02 (Advanced/Invention);

F16H3/00 F16K31/04 F16K31/44 G05G15/00 (Core/Invention)

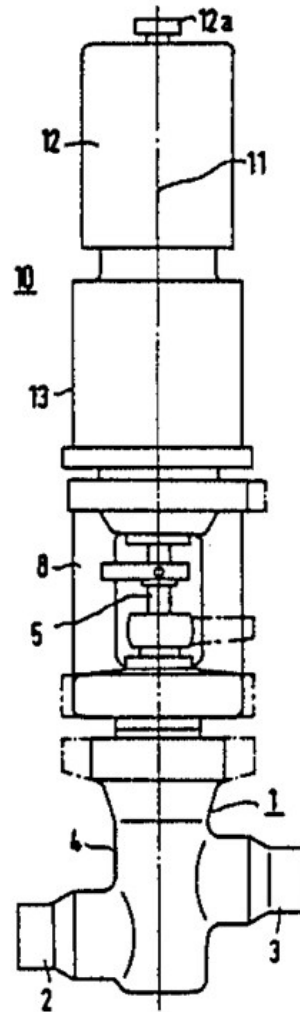
International (IPC 1-7): F16H3/00 F16K31/04 F16K31/53 F16K37/00 G05G15/02 H02H7/08

CPC: Y10T74/19274 F16K31/047 F16H3/00 F16K31/048

European: F16H3/00 F16K31/04V F16K31/04V2

US: 192/139 251/129.13 361/23 475/14 73/843 74/337 74/686 74/705 74/802

PatBase - US4780785_A



Family:

Publication number	Publication date	Application number	Application date
AT58955 E	19901215	AT19870107499T	19870522
DE3703478 A1	19871203	DE19873703478	19870205
DE3766549 D1	19910117	DE19873766549	19870522
EP0250852 A1	19880107	EP19870107499	19870522
EP0250852 B1	19901205	EP19870107499	19870522
JP63000606 A2	19880105	JP19870133231	19870528
US4780785 A	19881025	US19870057249	19870601

Priority:

DE19863618508 19860602 DE19873703478 19870205 EP19870107499 19870522
EP19870107499 19870522 DE19873766549 19870522

Probable Assignee: SIEMENS BERLIN AND MUNICH GERMANY A JOINT STOCK CO AG

Assignee(s): (std): KRAFTWERK UNION AG ; SIEMENS AG

Assignee(s): SIEMENS AKTIENGESSELLSCHAFT ; SIEMENS BERLIN AND MUNICH GERMANY A JOINT STOCK CO ; SIEMENS BERLIN U MUNCHEN AG ; SIEMENS BERLIN AND MUNICH GERMANY A JOINT STOCK CO AG ; SIEMENS 1000 BERLIN U 8000 MUNCHEN DE AG

Inventor(s): (std): EERITSUHI SHIYUTORITSUKUROOTO ; ERUIN RAURAA ; HANSU PEETAA SHIYAABERUTO ; LAURER ERWIN ; LAURER ERWIN DIPL ING ; LIPPERT ROLAND ; ROORANTO RITSUPERUTO ; SCHABERT HANS PETER ; SCHABERT HANS PETER DIPL ING ; STRICKROTH ERICH

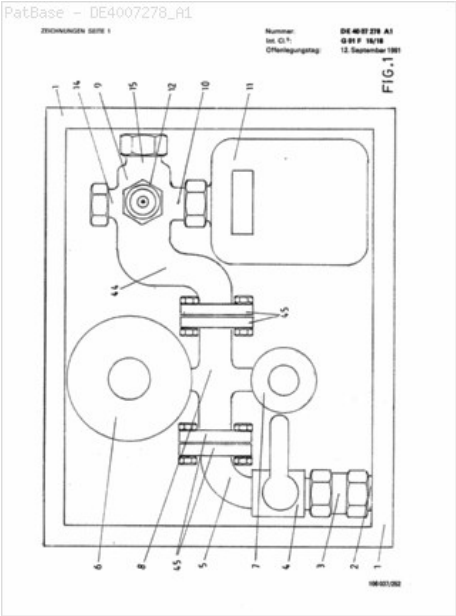
Inventor(s): STRICKROTH ERICH D 8520 ERLANGEN DE ; SCHABERT DIPL ING HANS PETER D 8520 ERLANGEN DE ; LIPPERT ROLAND D 8510 FUERTH DE ; LAURER DIPL ING ERWIN D 8521 MOEHRENDORF DE ; STRICKROTH ERICH 8520 ERLANGEN DE ; SCHABERT HANS PETER 8520 ERLANGEN DE ; LIPPERT ROLAND 8510 FUERTH DE ; LAURER ERWIN 8521 MOEHRENDORF DE

Designated states: AT CH DE FR GB IT LI NL

Title: Connecting fixture for single branch gas meter - has connecting piece with short feed pipes for meter, consumer and stop cock and is accommodated in building service box

Abstract: Source: DE4007278A1 The supply line is provided with a shut-off valve, a pressure regulator and an overpressure safety valve. A connecting piece for the supply line has at least three short feed pipes. One is for connection to the gas meter, another for the consumer and the third for a gas stop cock whose blocking member is adjustable to the blocking and open positions by means of a rotatable tap. The rear wall (46) of the junction box (1) has retainers (47-51) for non-displaceable fixing of the connecting piece (9) and for rotatable fixing in place of the shut-off valve (4). The pressure regulator (6) and safety valve are built-in between a housed piece fixed to the shut-off valve and the connecting piece by means of flanges (45) and/or threads. ADVANTAGE - Saves space. Connection to pressure measuring appts. simple and easily accessible. Simplified process for making pipelines pressureless. Simple mounting and exchange of gas counter, pressure regulator and overpressure safety valve.

Classifications:
International (IPC 8-9): G01F15/00 G01F15/18 (Advanced/Invention); G01F15/00 (Core/Invention)
International (IPC 1-7): F16K24/00 G01F15/18 G12B9/02
CPC: G01F15/005 G01F15/185
European: G01F15/00C G01F15/18B



Family:

Publication number	Publication date	Application number	Application date
DE4007278 A1	19910912	DE19904007278	19900308

Priority:

DE19904007278 19900308

Probable Assignee: JESCHKE IMMANUEL

Assignee(s): (std): JESCHKE IMMANUEL

Assignee(s): JESCHKE IMMANUEL 3203 SARSTEDT DE

Inventor(s): (std): JESCHKE IMMANUEL

Inventor(s): JESCHKE IMMANUEL 3203 SARSTEDT DE

Title: Connecting fixture for single branch gas meter - comprises shut-off valve, pressure regulator and overpressure safety valve in feed line

Abstract: Source: DE4007279A1 A connecting piece with at least three short feed pipes is joined to the supply line. One short feed pipe is connected to the gas meter, another to the consumer and the third to a gas stop cock whose blocking member is adjustable to blocking and open positions by a rotatable lap. The latter (23) has a bore (26) with a closure (29,32). The latter can be in the form of a stop (29) which can be threaded, a valve (32) operatable from outside, or a pressure measuring appts.. In the case of a valve a rod (36) can project from the valve body (34). The bore (26) can be threaded (27) and have an extension piece (28). ADVANTAGE - Reduced space. Connection to pressure measuring appts. simple and easily accessible. Pipeline can easily be made pressureless.

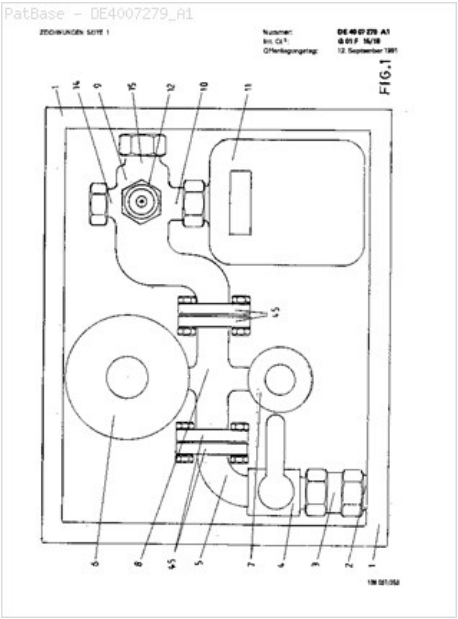
Classifications:

International (IPC 8-9): G01F15/00 G01F15/18 (Advanced/Invention); G01F15/00 (Core/Invention)

International (IPC 1-7): F16K24/00 G01F15/18

CPC: G01F15/005 G01F15/185

European: G01F15/00C G01F15/18B



Family:

Publication number	Publication date	Application number	Application date
DE4007279 A1	19910912	DE19904007279	19900308
DE4007279 C2	20000531	DE19904007279	19900308

Priority:

DE19904007279 19900308

Probable Assignee: JESCHKE IMMANUEL

Assignee(s): (std): JESCHKE IMMANUEL

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Inventor(s): (std): JESCHKE IMMANUEL

Inventor(s): JESCHKE IMMANUEL 3203 SARSTEDT DE

Title: HIGH-SPEED WATER JET BLOCKER

Abstract: Source: US5927320A An apparatus and method for performing high speed interruption of the flow of a very fine, high pressure, high speed water jet 12 of the type used to **cut** foods, paper, and other goods. The water jet 12 is interrupted by a pivotal blocking bar 22 within a blocker housing. The blocking bar 22 is **pivoted** in a collar 24b to a first desired position out of the path of water jet 12 or to a second desired position for blocking the path of water jet 12. A **pivot** arm 28, controlled by an output shaft 30 of a **rotary** actuator 32, controls the rotation of the blocking bar 22. A high pressured airflow is introduced into the device for controlling the exhaustion of blocked water within the device and for cooling the **rotary** actuator 32.

Classifications:

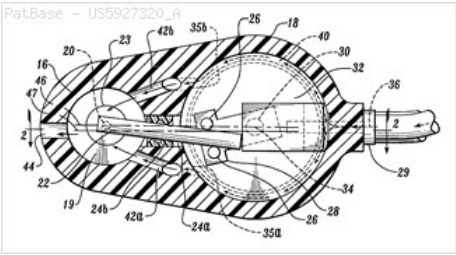
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International (IPC 1-7): B24C1/00 B24C5/02 B26D7/00 B26F1/26 B26F3/00 F15C3/10 F16K49/00

CPC: Y10T137/0396 Y10T137/2076 Y10T137/2213 Y10T137/6525 B26F3/004 B26F2003/006

European: B26F3/00C L26F3/00C1

US: 137/14 137/338 137/806 137/831



Family:

Publication number	Publication date	Application number	Application date
AT217830 E	20020615	AT19970301849T	19970319
AU199716415 A1	19970925	AU19970016415	19970319
AU708012 B2	19990729	AU19970016415	19970319
CA2200378 AA	19970919	CA19972200378	19970319
CA2200378 C	20000411	CA19972200378	19970319
DE69712666 D1	20020627	DE19976012666	19970319
EP0796706 A1	19970924	EP19970301849	19970319
EP0796706 B1	20020522	EP19970301849	19970319
EP1177867 A2	20020206	EP20010122900	19970319
EP1177867 A3	20020306	EP20010122900	19970319
EP1177867 B1	20051123	EP20010122900	19970319
NO309971 B1	20010430	NO19970001289	19970319
NO971289 A	19970922	NO19970001289	19970319
NO971289 A0	19970319	NO19970001289	19970319
NZ314443 A	19990225	NZ19970314443	19970319
US5927320 A	19990727	US19970824885	19970318
US5931178 A	19990803	US19960618319	19960319

Priority:

US19960618319 19960319 US19960618319 19960319 US19970824885 19970318
EP19970301849 19970319 EP19970301849 19970319 EP19970301849 19970319
CA19972200378 19970319

Probable Assignee: JOHN BEAN TECHNOLOGIES CORP

Assignee(s): (std): DESIGN SYSTEMS ; DESIGN SYSTEMS INC

Assignee(s): FMC CORP ; FMC TECHNOLOGIES INC ; JOHN BEAN TECHNOLOGIES CORP ; WATTLES DARREN P ; PFARR CRAIG E ; RUDY NORMAN A

Inventor(s): (std): CRAIG E PFARR ; DARREN P WATTLES ; NORMAN A RUDY ; PFARR CRAIG E ; RUDY NORMAN A ; WATTLES DARREN P

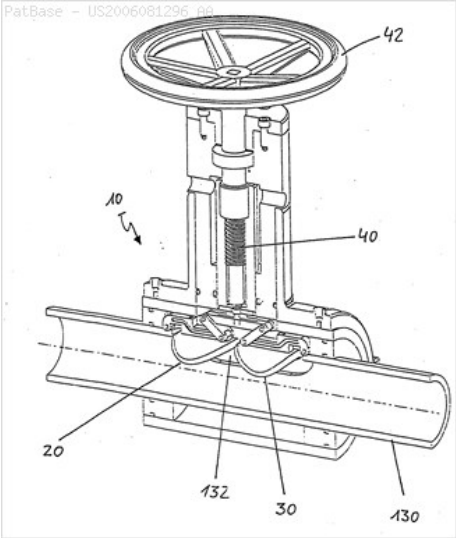
Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; SMART AND BIGGAR

Designated states: AT BE CH DE DK ES FI FR GB IT LI NL SE

Title: **SHUT-OFF** FITTING

Abstract: Source: US2006081296A The invention relates to a **shut-off** fitting comprising a housing which is connected to an adjacent pipeline in a pressure tight manner, the diameter of said pipeline defining a tubular passage in the housing. Said fitting also comprises at least one closing body which can be displaced between an open position and a closed position. The inventive **shut-off** fitting is characterized in that the at least one closing body can be displaced by an articulated mechanism, by means of an actuator which can be vertically displaced in relation to the flow direction, in such a way that it is arranged outside the tubular passage in its open position. The closing body has a contour which is adapted to the contour of the tubular passage, in the open position, and is located on the tubular passage in a radially **sealing** manner.

Classifications:
International (IPC 8-9): F16K1/20 F16K51/00 (Advanced/Invention); F16K1/18 F16K51/00 (Core/Invention)
International (IPC 1-7): F16K F16K1/20
CPC: F16K1/2007 F16K1/2014 F16K1/2021 Y10T137/87981
European: F16K1/20
US: 137/614.11 251/175 251/228 251/279 251/298



Family:

Publication number	Publication date	Application number	Application date
AT401517 E	20080815	AT20030740021T	20030523
AU2003273147 AA	20031212	AU20030273147	20030523
CN1671983 A	20050921	CN20038017663	20030523
CN1671983 B	20110608	CN20038017663	20030523
DE50310159 D1	20080828	DE20035010159	20030523
DK1506361 T3	20081117	DK20030740021T	20030523
EP1506361 A1	20050216	EP20030740021	20030523
EP1506361 B1	20080716	EP20030740021	20030523
ES2310244 T3	20090101	ES20030740021T	20030523
IL165307 A0	20060115	IL20030165307	20030523
IL165307 A1	20110228	IL20040165307	20041118
US2006081296 AA	20060420	US20050515278	20050718
US7406983 BB	20080805	US20050515278	20050718
WO03100302 A1	20031204	WO2003DE01671	20030523
WO03100302 B1	20040415	WO2003DE01671	20030523

Priority:
DE20021022963 20020523 WO2003DE01671 20030523

Probable Assignee: FRIATEC AG

Assignee(s): (std): FRIATEC KERAMIK KUNSTSTOFF ; SCHWARTZ SIMON ; ROTHERMEL ALEXANDER ; MAIER FABIAN ; GEHR HEIKO ; SICHLER WOLFGANG ; SCHMITT HARALD ; SCHNEIDER MICHAEL ; SCHMICH RALF ; ELSASSER DIRK ; FRIATEC AG

Assignee(s): FRIATEC AKTIENGESELLSCHAFT ; FRIATEC AKTIENGESELLSCHAFT KERAMIK UND KUNSTSTOFFW ; FRIATEC AKTIENGESELLSCHAFT KERAMIK UND KUNSTSTOFFWERKE ; FRIATEC KERAMIK U KUNSTSTOFFWERKE AG

Inventor(s): (std): ALEXANDER ROTHERMEL ; DIRK ELSASSER ; ELSASSER DIRK ; FABIAN MAIER ; GEHR HEIKO ; HARALD SCHMITT ; HEIKO GEHR ; MAIER FABIAN ; MICHAEL SCHNEIDER ; RALF SCHMICH ; ROTHERMEL ALEXANDER ; SCHMICH RALF ; SCHMITT HARALD ; SCHNEIDER MICHAEL ; SCHWARTZ SIMON ; SICHLER WOLFGANG ; SIMON SCHWARTZ ; WOLFGANG SICHLER

Agent(s): TOENHARDT MARION; REINHOLD COHN AND PARTNERS; PILLSBURY WINTHROP SHAW PITTMAN LLP; BAGHDADI ASLAN; PAUL HASTINGS JANOFSKY AND WALKER LLP; ASLAN

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

Title: LINEAR SLIDING GATE **VALVE** FOR A METALLURGICAL VESSEL

Abstract: Source: US2008157020A A linear sliding gate **valve** (10) for a metallurgical vessel comprises a slide plate (20) with a first orifice (30) and a fixed plate (22) with a second orifice (32). A slideable tray (26) supports the slide plate (20) and is arranged to slide the slide plate (20) relative to the fixed plate (22) so as to control an outflow of the metallurgical vessel by the relative position of the first and second orifices (30; 32). The slide plate (20) is rotatable relative to said slideable tray (26). The sliding gate **valve** further comprises a ratchet mechanism (40; 140) for providing defined angular positions of the slide plate (20). The ratchet mechanism (40; 140) is mounted on the slideable tray (26) such that the slideable tray (26) forms the fixed frame of the ratchet mechanism (40; 140).

Classifications:

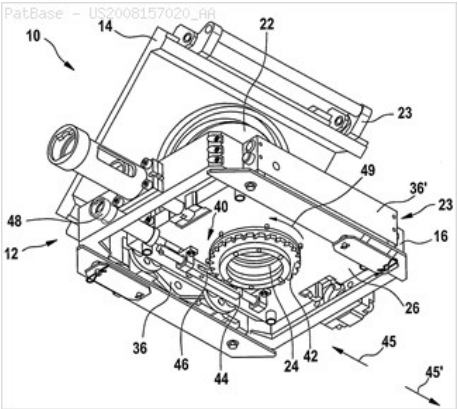
International (IPC 8-9): B22D11/10 B22D41/22 B22D41/24 B22D41/26 B22D41/34 B22D41/38 F16K3/00 F27D3/14 (Advanced/Invention); B22D41/22 B22D41/24 B22D41/26 B22D41/38 (Advanced/Non-invention); B22D11/10 B22D41/22 B22D41/24 F16K3/00 F27D3/14 (Core/Invention); B22D (Subclass/Invention)

International (IPC 1-7): B22D41/22 B22D41/22 B22D41/24 B22D41/24 B22D41/26 B22D41/26 B22D41/38 B22D41/38

CPC: B22D41/24 B22D41/26 B22D41/34

European: B22D41/24 B22D41/26 B22D41/34 B22D41/38

US: 222/594 222/600 251/230 251/326



Family:

Publication number	Publication date	Application number	Application date
AR052683 AA	20070328	AR2006P100863	20060308
AT405362 E	20080915	AT20060700706T	20060112
AT534479 E	20111215	AT20060121932T	20060112
AU2006222134 AA	20060914	AU20060222134	20060112
AU2006222134 BB	20100520	AU20060222134	20060112
BRPI0608041 A2	20091103	BR2006PI08041	20060112
CA2601252 AA	20070910	CA20062601252	20060112
CN101146636 A	20080319	CN200680009077	20060112
CN101146636 B	20100526	CN200680009077	20060112
DE602006002376 D1	20081002	DE200660002376T	20060112
EA010251 B1	20080630	EA20070001891	20060112
EA013176 B1	20100226	EA20080001060	20060112
EA200701891 A1	20080228	EA20070001891	20060112
EA200801060 A1	20081030	EA20080001060	20060112
EG24647 A	20100404	EG20070000951T	20070909
EP1707291 A1	20061004	EP20050101886	20050310
EP1863606 A1	20071212	EP20060700706	20060112
EP1863606 B1	20080820	EP20060700706	20060112
EP1900459 A2	20080319	EP20070121932	20060112
EP1900459 A3	20080514	EP20070121932	20060112
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ES2313603 T3	20090301	ES20060700706T	20060112
ES2377460 T3	20120327	ES20070121932T	20060112
IN07519DN2007 A	20080711	IN2007DN07519	20070928
JP2008532768 T2	20080821	JP20080500139T	20060112
JP4734405 B2	20110727	JP20080500139T	20060112
KR101239905 B1	20130306	KR20077023170	20060112
KR20070112249 A	20071122	KR20077023170	20060112
MX2007011106 A1	20080221	MX20070011106	20070910
MX2007011106 A1	20080221	MX20070011106	20060112
MY138004 A	20090430	MY20060000831	20060227
NZ561453 A	20090925	NZ20060561453	20060112
TH82225 A	20070114	TH20061001031	20060309
TW200631695 A	20060916	TW20060106225	20060224
TWI372664 B	20120921	TW20060106225	20060224
US2008157020 AA	20080703	US20060908265	20060112
US7648053 BB	20100119	US20060908265	20060112
WO06094846 A1	20060914	WO2006EP50171	20060112
ZA200708107 A	20100331	ZA20070008107	20070920

Priority:

EP20050101886 20050310 EP20070121932 20060112 WO2006EP50171 20060112
EP20060700706 20060112

Probable Assignee: TECH GATE SA

Assignee(s): (std): GAUCHE ALBERT ; GB TECH S R L ; TECH GATE S A ; ROSE WILLIAM ; VERRELLE DOMINIQUE ; TECHGATE S A

Assignee(s): DRIEF AG ; TECHGATE SA ; REFRAMIN SA ; TECH GATE SA

Inventor(s): (std): ALBERT GAUCHE ; DOMINIQUE VERRELLE ; GAUCHE ALBERT ; ROSE WILLIAM ; ROSE WILLIAM M ; VARRELLE DOMINIQUE ; VERRELLE DOMINIQUE ; WILLIAM ROSE

Inventor(s): WILLIAM M ROSE

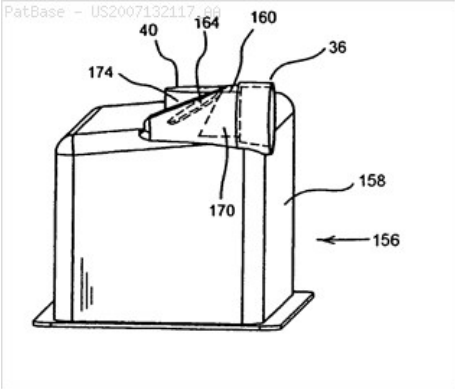
Agent(s): LORD AND CO ; GOWLING LAFLEUR HENDERSON LLP ; SCHMITT ARMAND ET AL ; CORRADINI CORRADO ; CANTOR COLBURN LLP

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

Title: HUMIDIFIER WITH BACK-FLOW PREVENTION **VALVE**

Abstract: Source: US2007132117A A humidifier for use with a pressure support system. The humidifier includes a body having an inlet, a fluid holding chamber, and an outlet. The inlet is positioned upstream and in fluid communication with the fluid holding chamber. The outlet is positioned downstream of and in fluid communication with the fluid holding chamber. A back-flow preventing **valve** is positioned upstream of the fluid chamber. The back-flow preventing **valve** is movable between an open position, in which the inlet is unblocked, and a closed position in which the inlet is blocked. In the closed position, the back-flow preventing **valve** prevents fluid, fluid vapor, or both from entering the pressure support via the inlet to the humidifier.

Classifications:
International (IPC 8-9): A61M11/00 A61M15/00 A61M16/00 A61M16/10 A61M16/16 A61M16/20 A62B7/00 A62B9/02 B01D47/02 F16K15/04 F24F3/14 F24F6/00 F24F6/02 F24F6/12 (Advanced/Invention); F16K15/03 F16K15/06 (Advanced/Non-invention); A61M15/00 A61M16/00 A61M16/10 A62B7/00 B01D47/02 F16K15/02 F24F3/12 F24F6/00 F24F6/02 (Core/Invention)
International (IPC 1-7): B01D47/02
CPC: A61M16/109 A61M16/162 A61M16/208 F24F2006/008 A61M16/16 F24F6/12
European: A61M16/16 A61M16/16F A61M16/20B F24F6/12 K61M16/10H4
US: 128/203.17 128/204.14 128/204.140P 128/204.17 128/204.18 128/204.180S 128/205.24 165/222 261/119.1 261/119.100S



Family:

Publication number	Publication date	Application number	Application date
AU2006294585 AA	20070405	AU20060294585	20060927
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AU2008223244 BB	20120816	AU20080223244	20080220
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BRPI0808404 A2	20140715	BR2008PI08404	20080220
CA2623667 AA	20080326	CA20062623667	20060927
CA2623667 C	20140708	CA20062623667	20060927
CN101272826 A	20080924	CN200680035691	20060927
CN101622050 A	20100106	CN200880006989	20080220
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CN104548305 A	20150429	CN201410763726	20060927
EP1928526 A2	20080611	EP20060804238	20060927
EP2117673 A1	20091118	EP20080730280	20080220
IN05738CN2009 A	20100611	IN2009CN05738	20090929
JP2009509666 T2	20090312	JP20080533610T	20060927
JP2010520440 T2	20100610	JP20090552795T	20080220
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US2007132117 AA	20070614	US20060527052	20060926
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Priority:
US20050720763P 20050927 US20060527052 20060926 US20070713990 20070305
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US20150658307 20150316

Probable Assignee: RIC INVESTMENTS LLC

Assignee(s): (std): RIC INVESTMENTS LLC ; RIC INVEST LLC ; KIMMEL STEVEN A ; PUJOL J RAYMOND ; MARTIN DANIEL ; TRUITT PATRICK W ; KEPPLER JEFFERY ; BAFILE ANTHONY J ; BUSCH LANCE ; DEMANGONE DREW A ; DUFF WINSLOW K ; HO PETER CHI FAI ; RIC INVESTMENTS LLC ; MATULA JR JEROME

Assignee(s): KEPLER JEFFREY ; RIC INVESTMENTS LLC801 WEST STREET2ND FLOORWILMINGTONDE19801-1545US

Inventor(s): (std): BAFILE ANTHONY J ; BUSCH LANCE ; BUSCH LANCE RANARD ; DANIEL MARTIN ; DEMANGONE DREW A ; HO PETER CHI FAI ; J RAYMOND PUJOL ; JEFFREY KEPLER ; JEFFREY KEPLER ; JEROME MATULA JR ; KEPLER JEFFERY ; KEPLER JEFFREY ; DUFF WINSLOW K ; DUFF WINSLOW KEVIN ; FAI HO PETER CHI ; HO PETER C F ; KEPPLER JEFFERY ; KEPLER JEFFREY ; LANCE BUSCH ; MARTIN DANIEL ; MARTIN DANIEL R ; MATULA JEROME JR ; MATULA JR JEROME ; PATRICK W TRUITT ; KIMMEL STEVEN A ; KIMMEL STEVEN ADAM ; PUJOL J R ; PUJOL J RAYMOND ; PUJOL JOHN RAYMOND ; RAYMOND PUJOL J ; STEVEN A KIMMEL ; TRUITT PATRICK ; TRUITT PATRICK W ; WINSLOW K DUFF

Inventor(s): TRUITT PATRICK WUS ; PUJOL J RAYMONDUS ; KIMMEL STEVEN AUS ; PETER CHI FAI HO ; PUJOL J ; MARTIN DANIELUS ; MATULA JEROME ; KIMMEL STEVEN ; HO PETER CF ; HO PETER ; DUFF WINSLOW KUS ; KEPLER JEFFREYUS ; DREW A DEMANGONE ; DUFF WINSLOW ; ANTHONY J BAFILE ; BAFILE ANTHONY ; DEMANGONE DREW

Agent(s): FB RICE ; SMART AND BIGGAR ; REES SIMON JOHN LEWIS ; VAN VELZEN MAAIKE MATHILDE ; MICHAEL W HAAS
RESPIRONICS INC; MICHAEL W; GASTINEAU CHERYL L ET AL

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 LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM 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

Diego Cardenas

Search history

Search 1: TAC=(Valve AND rotary AND (shutoff OR cutoff) AND (block* member)) and PD<20130107 and CC=(FR) and IC=(F16K) (Results 1)

Search 2: TAC=((shutoff OR cutoff) AND Valve AND rotary AND (block* member)) and PD<20130107 and CC=(FR) and IC=(F16K) (Results 1)

Search 3: FT=((shutoff OR cutoff) AND Valve AND rotary AND (block* member)) and PD<20130107 and CC=(FR) and IC=(F16K) (Results 3)

Search 4: FT=((shutoff OR cutoff) AND Valve AND rotary AND (block* member)) and PD<20130107 and CC=(FR) and IC=(F16K) (Results 3)

Search 5: FT=((shutoff OR cutoff) AND Valve AND rotary AND (block* member)) and PD<20130107 and IC=(F16K) (Results 29)

Search 6: FT=((shut* OR cut* OR check*) AND Valve AND rotary AND (block* member) AND (journal OR pivot OR stump) AND (immobil* OR seal*)) and PD<20130107 and IC=(F16K) (Results 15)

Search 7: FT=((shut* OR cut* OR check*) AND (valve OR fit*) AND rotary AND (block* member) AND (journal OR pivot OR stump) AND (immobil* OR seal*)) and PD<20130107 and IC=(F16K) (Results 16)

Search 8: TAC=((shut* OR cut* OR check*) AND (Valve OR Fit*) AND rotary AND (block* member) AND (journal OR pivot OR stump) AND (immobil* OR seal*)) and PD<20130107 and IC=(F16K) (Results 2)

Search 9: FT=((shut* OR cut* OR check*) AND (valve OR fit*) AND (rotary AND bear) AND (block* member) AND (journal OR pivot OR stump) AND (immobil* OR seal*)) and PD<20130107 and IC=(F16K) (Results 2)

Search 10: FT=((shut* OR cut* OR check*) AND (valve OR fit*) AND (rotary OR rotat* AND bear*) AND (block* member) AND (journal OR pivot OR stump) AND (immobil* OR seal*)) and PD<20130107 and IC=(F16K) (Results 28)

Search 11: FT=((rota* AND Valve)) and PD<20130107 and IC=(F16K) (Results 81625)

Search 12: TAC=((rotat* OR rotary) valve) and PD<20130107 and IC=(F16K) (Results 59345)

Search 13: FT=((shut* OR cut* OR check*) AND Valve* AND rotary AND (block* member) AND (journal OR pivot OR stump) AND (immobil* OR seal*)) and PD<20130107 and IC=(F16K) (Results 16)

Search 14: FT=((shut* OR cut* OR check*) AND Valve* AND (rotar* OR rotat*) AND (block* member) AND (journal OR pivot OR stump) AND (immobil* OR seal*)) and PD<20130107 and IC=(F16K) (Results 46)

Search 15: TAC=((shut* OR cut* OR check*) AND Valve* AND (rotar* OR rotat*) AND (block* member) AND (journal OR pivot OR stump) AND (immobil* OR seal*)) and PD<20130107 and IC=(F16K) (Results 7)

Search 16: FT=((shut* OR cut* OR check*) AND Valve AND rotary AND (sphere OR butterfly) AND (journal OR pivot OR stump) AND (immobil* OR seal*)) and PD<20130107 and IC=(F16K) (Results 344)

Search 17: FT=((shut* OR cut* OR check*) AND Valve AND rotary AND block* AND (sphere OR butterfly) AND (journal OR pivot OR stump) AND (immobil* OR seal*)) and PD<20130107 and IC=(F16K) (Results 157)

Search 18: TAC=((shut* OR cut* OR check*) AND Valve AND rotary AND block* AND (sphere OR butterfly) AND (journal OR pivot OR stump) AND (immobil* OR seal*)) and PD<20130107 and IC=(F16K) (Results 6)

Title: Improvements in or relating to **butterfly valves**

Abstract: Source: GB942795A 942,795. **Valves.** UNITED KINGDOM ATOMIC ENERGY AUTHORITY. May 26, 1960 [June 2, 1959], No. 18777/59. Heading F2V. In a **butterfly valve** the disc and the seat are relatively movable towards and away from each other and the actuating mechanism includes a linearly displaceable member which extends out of the **valve** body. In the first embodiment the closure member 1 which cooperates with a seat 3, Fig. 2, is carried by a pair of trunnions 2, each of which is carried by a **block** 5 displaceable in a slot 6 in the **valve** body 4. The slot 6 is lined with a porous bearing material impregnated with polytetrafluoroethylene. Each **block** 5 is connected to a shaft 8 which is keyed to a screwed bush 15 and extends into an external guide 10. A metallic **sealing** bellows 19 is welded to the shaft 8 and to the bush 15. Each shaft 8 has a pair of trunnions received in enlarged holes in spaced levers 20, Fig. 1, which are connected by a cross-bar 22 to a screwed shaft 23 connected to a hand wheel 24. Two springs 36 extend from the closure member to a T-sectioned bracket 33 located within the body 4 and carrying a roller 34. A stop 38 defines the seating position of the closure member. In operation, the **valve** is opened by rotation of the hand wheel 24 to effect linear displacement of the shafts 8 and **block** 5 via the shaft 23 and levers 20 to withdraw the closure member 1 from the seat 3. When the closure member 1 meets the roller 34 it is **pivoted** to the open position. Re-closing is effected by reverse rotation of the hand wheel, the member 1 being **pivoted** by the springs 36 before being seated. A duct 39 extends from the seat to a screwed connection 40 to allow of gas sampling as a **check** for leakage. In the second example, Fig. 9, the **valve** seat 42 of polytetrafluoroethylene is carried by a housing 44 slidable axially within the **valve** body 47, 48. Three equispaced lugs 45 on the housing 44 project through slots 46 in the body part 48 to receive rods 74 of hydraulic jacks, the pistons of which are loaded by springs 78. The seat housing 44 is **sealed** by two bellows 80 and a sampling duct 81 is again provided. The closure member 41 is **pivoted** to a bracket 51 carried by a sleeve 50 within the body part 47. A hinged link 53 is **pivoted** at one end to a lug 54 on the **valve** member 41 and is rigidly attached at the other end to a pin 55, one end of which extends through the **valve** body into an actuating mechanism housing 57, Fig. 10, where it is attached to a link 58 connected by a link 66 to a linearly movable screwed actuating member 61 which extends through a **sealing** bellows 72. In operation, to open the **valve**, the **valve** seat is withdrawn from the member 41 by actuation of the jacks 73 to move the housing 44. The actuating mechanism 59 is then operated to **pivot** the **valve** member. **Valve** closure is effected in the reverse sequence.

Classifications:

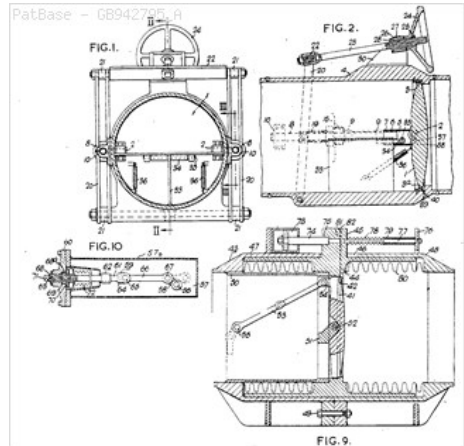
International (IPC 8-9): F16K1/24 (Advanced/Invention);

F16K1/00 (Core/Invention)

International (IPC 1-7): F16K1/22

CPC: F16K1/24

European: F16K1/24



Family:

Publication number	Publication date	Application number	Application date
GB942795 A	19631127	GB19590018777	19590602

Priority:

GB19590018777 19590602

Probable Assignee: ATOMIC ENERGY AUTHORITY UK

Assignee(s): (std): ATOMIC ENERGY AUTHORITY UK

Assignee(s): UNITED KINGDOM ATOMIC ENERGY AUTHORITY

Inventor(s): (std): BRANDRAM ANDREW JOHN ; HINDMARCH GEORGE CHRISTIE ; KING FRANK ALEXANDER

Title: Wet jigging machine for dressing coal or other minerals

Abstract: Source: US4485010A A wet jigging mechanism for handling coal or other minerals including a mineral containing tank, a pulsed air chamber opening downwardly into the tank, a compressed air source with a conduit and a vent conduit with valves in the conduit, the valves including pivotal butterfly valves on a shaft with a swing flap operator operated by the compressed air to move the butterfly valve and the swing wing engaging a variable positioned rubber stop damper at the open position of the butterfly valve, and a rubber seat for the butterfly valve in closed position acting as a damper.

Classifications:

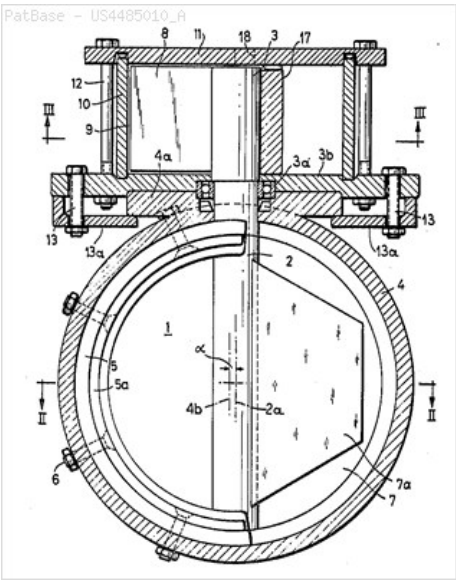
International (IPC 8-9): B03B5/24 F16K1/22 (Advanced/Invention); B03B5/00 F16K1/22 (Core/Invention)

International (IPC 1-7): B03B5/02 B03B5/20 B03B5/24 B03B5/68 F16K1/22

CPC: B03B5/24 F16K1/221

European: B03B5/24 F16K1/22B

US: 209/500 209/502 251/59



Family:

Publication number	Publication date	Application number	Application date
AU198291010 A1	19830630	AU19820091010	19821130
DE3150999 A1	19830630	DE19813150999	19811223
DE3150999 C2	19850620	DE19813150999	19811223
GB2112671 A1	19830727	GB19820036398	19821222
GB2112671 B2	19860326	GB19820036398	19821222
US4485010 A	19841127	US19820451966	19821221
ZA8208137 A	19830928	ZA19820008137	19821105

Priority:

DE19813150999 19811223

Probable Assignee: KLOECKNER HUMBOLDT DEUTZ AG

Assignee(s): (std): KLOECKNER HUMBOLDT DEUTZ AG

Assignee(s): KLOECKNER HUMBOLDT DEUTZ AG 5000 KOELN DE ; KLOCKNER HUMBOLDT DEUTZ A G ; KLOCKNER HUMBOLDT DEUTZ AG

Inventor(s): (std): HEINTGES SIEGFRIED ; HEINTGES SIEGFRIED DIPL ING ; SIEGFRIED HEINTGES ; STRAUSS WERNER ; WERNER STRAUSS

Inventor(s): STRAUSS WERNER 4630 BOCHUM DE ; HEINTGES SIEGFRIED DIPL ING 4358 HALTERN DE

Title: **Shut-off** device for pipes

Abstract: Source: US4770392A PCT No. PCT/DE86/00216 Sec. 371 Date Jan. 30, 1987 Sec. 102(e) Date Jan. 30, 1987 PCT Filed May 27, 1986 PCT Pub. No. WO86/07122 PCT Pub. Date Dec. 4, 1986. For a **shut-off** device comprising a tubular housing to be built into a pipe and a **rotary valve** for which a driving shaft penetrating the housing and a seat in the housing are provided, a ring wheel (4) with movable bearings (9) being disposed on the driving shaft (10) and the **valve** flap (3) being guided in the ring wheel (4) and connected with the driving shaft by a gearing (22, 23) which locks when the **valve** flap (3) swivels in and serves to press the **valve** flap (3) onto its seat (32), the invention provides for the following: when the driving shaft (10) is rotated back, the gearing (22, 23) lifts the **valve** flap (3) axially off the seat (32) until the **valve** flap (3) is supported on the ring wheel (4), and the gearing (22, 23) constitutes the connection between the **valve** flap (3) and the driving shaft, the **valve** flap (3) being supported on the ring wheel (4).

Classifications:

International (IPC 8-9): F16K1/22 F16K1/24 (Advanced/Invention);

F16K1/00 F16K1/22 (Core/Invention);

F16K (Subclass/Invention)

International (IPC 1-7): F16K1/22 F16K1/226 F16K1/24 F16K25/00 F16K31/524

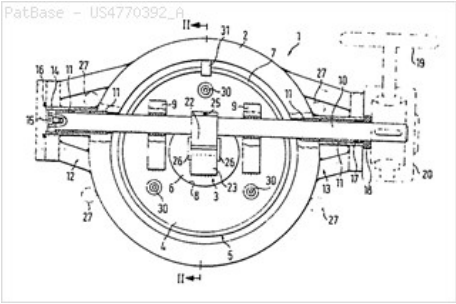
F16K31/53 F16K39/02 F16K39/2 F16L55/10

CPC: F16K1/221 F16K1/24

European: F16K1/22B F16K1/24

US: 251/158 251/177 251/215 251/227 251/229 251/250 251/251 251/263 251/303

251/308



Family:

Publication number	Publication date	Application number	Application date
AT61460 E	19910315	AT19860903221T	19860527
DE3504608 A1	19860821	DE19853504608	19850211
DE3504608 C2	19890511	DE19853504608	19850211
DE3519375 A1	19861204	DE19853519375	19850530
DE3519375 C2	19910508	DE19853519375	19850530
DE3535637 A1	19870416	DE19853535637	19851005
DE3677908 D1	19910411	DE19863677908	19860527
EP0224516 A1	19870610	EP19860903221	19860527
EP0224516 B1	19910306	EP19860903221	19860527
EP0320490 A2	19890614	EP19890100269	19860527
EP0320490 A3	19910828	EP19890100269	19860527
EP0320491 A2	19890614	EP19890100271	19860527
EP0320491 A3	19911227	EP19890100271	19860527
ES555453 A1	19870416	ES19860555453	19860529
ES8705100 A1	19870701	ES19860555453	19860529
FI870381 A	19870129	FI19870000381	19870129
FI870381 A0	19870129	FI19870000381	19870129
JP62503048 T2	19871203	JP19860503160	19860527
US4770392 A	19880913	US19870023551	19870130
WO8607122 A1	19861204	WO1986DE00216	19860527
ZA8604050 A	19870128	ZA19860004050	19860905

Priority:

DE19853504608 19850211	DE19853519375 19850530	WO1986DE00216 19860527
DE19853534670 19850928	DE19853535637 19851005	DE19863606509 19860228
EP19860903221 19860527	DE19863677908 19860527	

Probable Assignee: SCHMIDT FRITZ

Assignee(s): (std): SCHMIDT FRITZ

Assignee(s): SCHMIDT FRITZ 4270 DORSTEN DE ; FRITZ SCHMIDT

Inventor(s): (std): SCHMIDT FRITZ

Inventor(s): SCHMIDT FRITZ 4270 DORSTEN DE ; FRITZ SCHMIDT

Designated states: AT BE CH DE FI FR GB IT JP LI LU NL SE US

Title: Thermostatically self-regulating mixing **valve**

Abstract: Source: US4767052A A self-regulating mixing **valve** has a main housing having hot- and cold-water inlets, compartments, and **valve** seats. A **valve** body is displaceable axially in the housing between one end position engaging the hot-water seat and an opposite end position engaging the cold-water seat, **blocking** flow from the cold-water inlet compartment to the outlet compartment, and out of engagement with the hot-water seat and permitting flow from the hot-water inlet compartment to the outlet compartment. On moving between these end positions the **valve** body passes through intermediate positions permitting flow from both inlet compartments past the respective seats into the outlet compartment. A fitting body fixed in the housing and defining a wall of the outlet compartment is formed with a throughgoing hole opening into the outlet compartment. A thermostat in the outlet compartment is fixed with the **valve** body to a tubular stem engaged through and limitedly axially movable in the hole of the fitting body. A **seal** ring engages around the stem to **seal** the hole and a spring is braced between the housing and the stem outside the outlet compartment to pull the thermostat and **valve** body into solid engagement with the fitting body. A temperature-selecting mechanism engages via the stem with the thermostat and operatively engages via the thermostat with the **valve** body.

Classifications:

International (IPC 8-9): F16K11/00 G05D23/13 (Advanced/Invention);

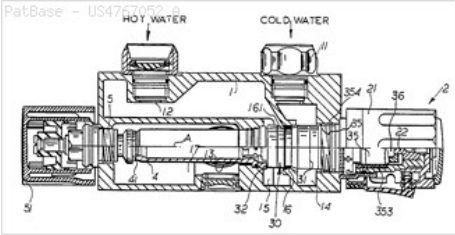
F16K11/00 (Core/Invention)

International (IPC 1-7): F16K11/0 F16K11/06 F16K11/065 G03D23/13 G05D11/16 G05D23/13

CPC: G05D23/1346

European: G05D23/13B4D2

US: 236/12.22



Family:

Publication number	Publication date	Application number	Application date
DE3612988 A1	19871029	DE19863612988	19860417
DE3779798 D1	19920723	DE19873779798	19870404
DE3786690 D1	19930902	DE19873786690	19870404
DK168239 B1	19940228	DK19870001956	19870415
DK168239 C	19940228	DK19870001956	19870415
DK172594 B1	19990208	DK19870001889	19870413
DK188987 A	19871018	DK19870001889	19870413
DK188987 A0	19870413	DK19870001889	19870413
DK195687 A	19871018	DK19870001956	19870415
DK195687 A0	19870415	DK19870001956	19870415
EP0242675 A2	19871028	EP19870105002	19870404
EP0242675 A3	19890927	EP19870105002	19870404
EP0242675 B1	19920617	EP19870105002	19870404
EP0242680 A2	19871028	EP19870105020	19870404
EP0242680 A3	19890913	EP19870105020	19870404
EP0242680 B1	19930728	EP19870105020	19870404
ES2033252 T3	19930316	ES19870105002T	19870404
ES2043616 T3	19940101	ES19870105020T	19870404
US4767052 A	19880830	US19870040177	19870417

Priority:

DE19863612988 19860417 DE19873779798 19870404 DE19873786690 19870404

Probable Assignee: FRIEDRICH GROHE AND CO AG KG

Assignee(s): (std): GROHE ARMATUREN FRIEDRICH

Assignee(s): FRIEDRICH GROHE ARMATURENFABRIK GMBH ; FRIEDRICH GROHE ARMATURENFABRIK GMBH AND CO ; GROHE ARMATURENFABRIK GMBH AND CO FRIEDRICH ; FRIEDRICH GROHE ARMATURENFABRIK GMBH AND CO A (WES ; FRIEDRICH GROHE ARMATURENFABRIK GMBH AND CO A WEST ; FRIEDRICH GROHE AG ; FRIEDRICH GROHE AG 58675 HEMER DE ; FRIEDRICH GROHE AG 5870 HEMER DE ; FRIEDRICH GROHE AG AND CO KG ; FRIEDRICH GROHE AKTIENGESELLSCHAFT ; FRIEDRICH GROHE AND CO AG KG

Inventor(s): (std): STOLLE EBERHARD ; RYSZARD KOSTORZ JAN ; KOSTORZ JAN RYSZARD ; EBERHARD STOLLE ; KAHLE DIETER ; DIETER KAHLE ; KOSTORZ JAN R

Inventor(s): KOSTORZ JAN RYSZARD W 5750 MENDEN 2 DE ; STOLLE EBERHARD W 5800 HAGEN 5 DE ; KAHLE DIETER W 5860 ISERLOHN DE

Designated states: DE ES FR GB NL SE

Title: Rotary feeder for bulk material or liquids

Abstract: Source: US5405061A A rotary feeder for bulk material or liquids includes a generally hollow cylindrical housing with a housing inlet and a radially opposing housing outlet. Rotatably supported in a sealing manner within the housing is a generally cylindrical rotor which includes at least one eccentric passageway extending in a radial plane between an inlet port and an outlet port and alternately connectable with the housing inlet and the housing outlet.

Classifications:

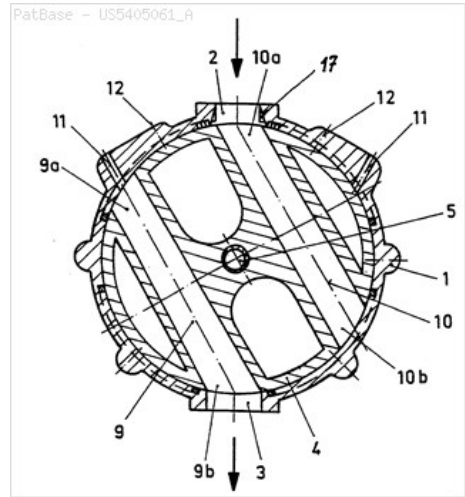
International (IPC 8-9): F16K5/04 G01F11/22 G01F11/24 (Advanced/Invention); F16K5/00 G01F11/10 (Core/Invention); B65G (Subclass/Invention)

International (IPC 1-7): A01C15/04 B65G B65G53/46 B67D5/00 F16K3/00 F16K5/04 G01F11/10 G01F11/22 G01F11/24

CPC: G01F11/22 G01F11/24

European: G01F11/22 G01F11/24

US: 222/362 222/636



Family:

Publication number	Publication date	Application number	Application date
AT403033 B	19971027	AT19930000731	19930413
AT73193 A	19970315	AT19930000731	19930413
BE1006050 AF	19940426	BE19930000468	19930506
CH686951 A	19960815	CH19930001102	19930413
DE4214441 C1	19931209	DE19924214441	19920506
DK45293 A	19931107	DK19930000452	19930421
DK45293 A0	19930421	DK19930000452	19930421
ES2068758 AB	19950416	ES19930000952	19930505
ES2068758 AC	19971101	ES19930000952	19930505
ES2068758 BA	19980501	ES19930000952	19930505
FR2690908 A1	19931112	FR19930005362	19930505
FR2690908 B1	19950217	FR19930005362	19930505
GB2266703 A1	19931110	GB19930008799	19930428
GB2266703 B2	19950531	GB19930008799	19930428
GB9308799 A0	19930609	GB19930008799	19930428
IT1272406 B	19970623	IT1993MI00892	19930505
ITMI930892 A0	19930505	IT1993MI00892	19930505
ITMI930892 A1	19931107	IT1993MI00892	19930505
JP6034057 A2	19940208	JP19930101408	19930427
NL9300746 A	19931201	NL19930000746	19930504
SE505811 C2	19971013	SE19930001537	19930505
SE9301537 A	19931107	SE19930001537D	19930505
SE9301537 A0	19930505	SE19930001537	19930505
SE9301537 L	19931107	SE19930001537	19930505
US5405061 A	19950411	US19930059439	19930504
ZA9303166 A	19931207	ZA19930003166	19930505

Priority:

DE19924214441 19920506

Probable Assignee: WAESCHLE GMBH

Assignee(s): (std): WAESCHLE MASCHF GMBH ; WAESCHLE MASCHINENFABRIK GMBH ; WAESHCL E MASCHF GMBH ; WAESCHLE MASCHINENFABRIK GMBH TE RAVENSBURG BONDSR ; WAESHCL E MASCHINENFABRIK GMBH

Assignee(s): WAESCHLE MASCHINENFABRIK GMBH TE RAVENSBURG BONDSREPUBLIC DUTSLAND ; WAESCHLE MASCHINENFABRIK GMBH 7980 RAVENSBURG DE ; WAESCHLE GMBH ; WAESCHLE MAS FAB GMBH ; WAESCHLE MASCH

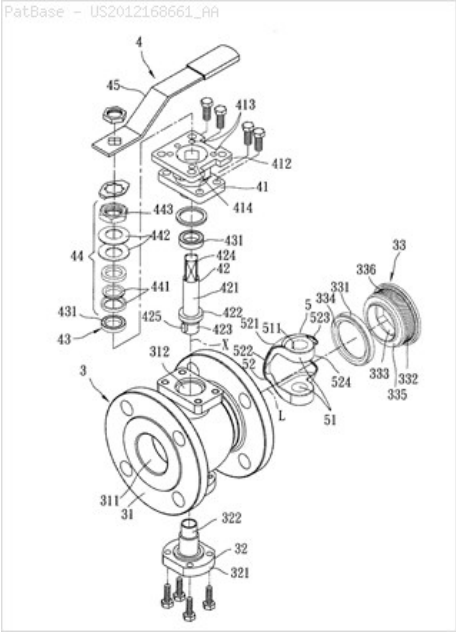
Inventor(s): (std): KUGLER HARALD ; KUEGLER HARALD ; HARALD KUEGLER ; HARALD KUGLER ; HARARUTO KIYUGURAA

Inventor(s): KUEGLER HARALD 6145 LINDENFELS DE

Title: BALL SEGMENT VALVE

Abstract: Source: US2012168661A A ball segment valve for controlling fluid flow in a piping, includes a valve housing with a valve seat disposed therein, a tubular bearing body fitted to an upper axial opening of the valve housing, a rotating spindle inserted through the bearing body into the valve housing, a tightening sleeve unit sleeved on the spindle to ensure full engagement of the spindle with the bearing body, a journal member inserted through a lower axial opening into the valve housing, and a valve body having upper and lower lugs coaxially fitted to the spindle and the journal member, and a spherical segment having a convex outer spherical surface and rotated with the spindle between a fully closed position, where the spherical surface is in sealing contact with the valve seat, and a fully opened position to permit a full fluid communication of the valve housing.

Classifications:
International (IPC 8-9): F16K3/22 F16K5/06 (Advanced/Invention)
CPC: F16K5/0605 F16K5/12
European: F16K5/06B F16K5/12
US: 251/214 251/315.08 251/315.14 251/315.16 251/315.160P



Family:

Publication number	Publication date	Application number	Application date
TW201226751 A	20120701	TW20100146565	20101229
TWI384148 B	20130201	TW20100146565	20101229
US2012168661 AA	20120705	US20110104242	20110510
US8398055 BB	20130319	US20110104242	20110510

Priority:
TW20100146565 20101229

Probable Assignee: J FLOW CONTROLS LLC

Assignee(s): (std): YIN CHIH CHIEN ; ZIPSON STEEL IND CO LTD ; FLOW CONTROLS LLC J

Assignee(s): J FLOW CONTROLS LLC ; ZIPSON STEEL INDUSTRIAL CO ; ZIPSON STEEL INDUSTRIAL CO LTD

Inventor(s): (std): YIN CHIH CHIEN ; YIN ZHI JIAN

Agent(s): FAEGRE BAKER DANIELS LLP