

Search history

Search PN=(WO2017116969) (Results 1)

1:

Search [SP]: 1. a combination, comprising: a plurality of segments attached to one another end to end by fasteners to form a loop around a central space, each of said segments comprising a first side and a second side, wherein a channel is disposed between the first and second sides of the plurality of segments, wherein the channel extends circumferentially around and faces said central space a flexible, resilient sealing ring positioned in said channel, the sealing ring comprising first and second lobes that each extend radially inwardly to define first and second ring inner seal surfaces, respectively and a tube comprising a first end disposed within the central space, a first protrusion extending radially outwardly and disposed proximate the second sides of the plurality of segments, wherein the first protrusion limits an extent to which the first end of the tube can extend axially into the central space, a second protrusion extending radially outwardly and disposed within the central space, wherein the second protrusion is axially disposed between the first protrusion and the first end, wherein the second sides of the plurality of segments and the first lobe of the sealing ring are both axially disposed between the first and second protrusions, wherein the first lobe is axially disposed between the second protrusion and the second sides of the plurality of segments, and the second protrusion extends radially outwardly farther than an inner radial extent of the first lobe such that the second protrusion and first lobe help retain the tube within the sealing ring, and a sealing surface disposed between the first and second protrusions on an outer surface of the tube, wherein the combination is shaped and configured such that an end of a first pipe element may be axially inserted into the central space, and wherein the combination is shaped and configured such that once the end of the first pipe element is properly inserted into the central space, the fasteners can be tightened so as to draw the plurality of segments toward one another and the central space and thereby cause (1) the first ring inner seal surface to sealingly engage the sealing surface of the tube, and (2) the second ring inner seal surface to sealingly engage a sealing surface of the first pipe element. 2. the combination of claim 1, wherein: the second protrusion comprises a first surface that slopes radially inwardly as it progresses axially toward the first end of the tube, the second ring inner seal surface has a diameter sized to receive said first pipe element upon insertion of said first pipe element into the central space, said plurality of segments comprises no more than two said segments and the fasteners comprise two threaded fasteners. 3. the combination of claim 1, wherein the second protrusion comprises a first surface that slopes radially inwardly as it progresses axially toward the first end of the tube. 4. the combination of claim 1, wherein the second ring inner seal surface has a diameter sized to receive said first pipe element upon insertion of said first pipe element into the central space. 5. the combination of claim 4, wherein said sealing ring has an outer surface engaged with and supporting said plurality of segments in a preassembled state in spaced apart relation sufficient to allow said first pipe element to be inserted into said central space. 6. the combination of claim 1, wherein said plurality of segments comprises no more than two said segments. 7. the combination of claim 6, wherein the fasteners comprise two threaded fasteners. 8. the combination of claim 1, wherein first and second protrusions each extend continuously around an entire circumference of the tube. 9. the combination of claim 1, wherein the combination is shaped and configured to join the first pipe element with a second pipe element. 10. the combination of claim 9, wherein the first and second pipe elements comprise different types of pipe elements, and wherein the combination is an adapter coupling that is shaped and configured to join the different types of pipe elements to each other. 11. the combination of claim 1, wherein the plurality of segments, the fasteners, and the sealing ring together define a preassembled pipe coupling. 12. the combination of claim 11, wherein the combination is a preassembled pipe coupling that includes the plurality of segments, the fasteners, the sealing ring, and the tube. 13. the combination of claim 1, wherein the sealing ring comprises a radially-inwardly projecting rib disposed between the first and second lobes. 14. the combination of claim 1, wherein the second protrusion extends radially outwardly less far than an inner radial extent of the second sides of the plurality of segments prior to tightening of the fasteners such that there is a radial clearance between the second protrusion and the second sides of the plurality of segments. 15. the combination of claim 1, wherein: the combination is shaped and configured to join the first pipe element with a second pipe element and the combination is shaped and configured to be attached to the first pipe element before being attached to the second pipe element. 16. the combination of claim 1, wherein the first pipe element comprises a plain end pipe element. 17. the combination of claim 1, wherein: the combination is shaped and configured to join the first pipe element with a second pipe element and the second pipe element comprises a flanged pipe element. 18. the combination of claim 17, wherein the tube and plurality of segments are shaped and configured to mount to the flanged pipe. 19. a method of using the combination in claim 1, the method comprising: while the first end of said tube is disposed in said central space, axially inserting the end of the first pipe element into the central space and while the end of the first pipe element is inserted into the central space, tightening the fasteners, which draws the plurality of segments toward one another and the central space and thereby causes (1) the first ring inner seal surface to sealingly engage the sealing surface of the tube, and (2) the second ring inner seal surface to sealingly engage the sealing surface of the first pipe element. 20. the method of claim 19, wherein said tightening causes the second sides of the segments to move radially inwardly past an outer radial extent of the second protrusion. 21. the method of claim 19, further comprising attaching a second pipe element to the tube so as to form a fluid-tight seal between the second pipe element and the tube. 22. the method of claim 21, wherein said attaching occurs after said axially inserting and after said tightening. 23. a tube shaped and configured for engagement with a coupling that comprises: a plurality of segments attached to one another end to end by fasteners to form a loop around a central space, each of said segments comprising a first side and a second side, wherein a channel is disposed between the first and second sides of the plurality of segments, wherein the channel extends circumferentially around and faces said central space and a flexible, resilient sealing ring positioned in said channel, the sealing ring comprising first and second lobes that extend radially inwardly to define first and second ring inner seal surfaces, respectively, the tube comprising: a first end configured to be disposed within the central space when the tube is engaged with the coupling, a first protrusion extending radially outwardly and shaped and configured to be disposed proximate the second sides of the plurality of segments when the tube is engaged with the coupling, wherein the first protrusion is shaped and configured to limit an extent to which the first end of the tube can extend axially into the central space, a second protrusion extending radially outwardly, and a sealing surface disposed between the first protrusion and second protrusion on an outer surface of the tube, wherein the tube is shaped and configured such that when the tube is engaged with the coupling, (1) the second protrusion is within the central space, (2) the second sides of the plurality of segments and first lobe are both axially disposed between the first and second protrusions, (3) the first lobe is axially disposed between the second protrusion and the second sides of the plurality of segments, (4) the second protrusion extends radially outwardly farther than an inner radial extent of the first lobe such that the second protrusion and first lobe help retain the tube within the sealing ring, (5) an end of a first pipe element may be axially inserted into the central space, and (6) the fasteners can be tightened so as to draw the plurality of segments toward one another and the central space and thereby cause the first ring inner seal surface to sealingly engage the sealing surface of the tube. 24. the tube of claim 23, in combination with the sealing ring, wherein: the first lobe is axially disposed between the first and second protrusions, the first end and second protrusion of the tube are disposed within a central opening formed by the sealing ring, a (Results 0)

Search [SP]: cross reference to related application[0001] this application is a continuation of and claims benefit of priority to u.s. patent application ser. no. 15/387,894, filed dec. 22, 2016, which application is based upon and claims the benefit of priority to u.s. provisional application no. 62/271,395, filed dec. 28, 2015, both applications being hereby incorporated by reference. field of the invention[0002] this invention relates to mechanical couplings for joining pipe elements end to end, and in particular, for joining flanged pipe elements to non-flanged pipe elements. background[0003] as taught in the prior art, connecting a non-flanged polymer pipe element to a flanged pipe element of either polymer or metal, requires the use of a backing ring, usually made of metal, and a polymer butt flange adapter. to effect the connection, the backing ring is slipped over the free end of the non-flanged polymer pipe element and then the butt flange adapter is coaxially aligned with and fused to the free end of the non-flanged pipe element in a butt joint. this creates a flanged facing on the previously non-flanged polymer pipe element which is then engaged, flange to flange, with the flanged pipe element. the backing ring is then brought to bear on the flange of the butt flange adapter and bolts are used to attach the backing ring to the flange of the flanged pipe element, capturing and retaining the flange of the butt flange adapter to the flanged pipe element. for polymer to metal flange engagement under low pressure applications the soft polymer flange of the butt flange adapter deforms upon contact with the metal flange of the flanged pipe element to form a fluid-tight seal. for higher pressure applications a face seal may be used between the interfacing flanges to ensure fluid tightness. [0004] while effective, this prior art practice suffers various disadvantages. multiple parts, namely, the butt flange adapter and the backing ring, must be supplied and assembled onto the non-flanged polymer pipe element. a fusing operation is necessary to join the butt flange adapter to the non-flanged polymer pipe. this requires a fusing machine, which requires power or a heat source for operation. the fusing operation itself takes time and is affected by the weather when joints are to be made in the field. for example, cold weather will slow the fusing process, and can stop it entirely if severe enough. there is clearly a need for improved components and a method for joining non-flanged polymer pipe elements to flanged pipe elements. summary[0005] the invention concerns a combination, wherein in an example embodiment the combination comprises a plurality of segments attached to one another end to end by fasteners to form a loop around a central space. each of the segments comprises a first side and a second side. a channel is disposed between the first and second sides of the plurality of segments. the channel extends circumferentially around and faces the central space. a flexible, resilient sealing ring is positioned in the channel. the sealing ring comprises first and second lobes that each extend radially inwardly to define first and second ring inner seal surfaces, respectively. the example combination further comprises a tube comprising a first end disposed within the central space. a first protrusion extends radially outwardly and is disposed proximate the second sides of the plurality of segments. the first protrusion

limits an extent to which the first end of the tube can extend axially into the central space. a second protrusion extends radially outwardly and is disposed within the central space. the second protrusion is axially disposed between the first protrusion and the first end. the second sides of the plurality of segments and the first lobe of the sealing ring are both axially disposed between the first and second protrusions. the first lobe is axially disposed between the second protrusion and the second sides of the plurality of segments, and the second protrusion extends radially outwardly farther than an inner radial extent of the first lobe such that the second protrusion and first lobe help retain the tube within the sealing ring. in the example embodiment a sealing surface is disposed between the first and second protrusions on an outer surface of the tube. the combination is shaped and configured such that an end of a first pipe element may be axially inserted into the central space. the combination is shaped and configured such that once the end of the first pipe element is properly inserted into the central space, the fasteners can be tightened so as to draw the plurality of segments toward one another and the central space and thereby cause (1) the first ring inner seal surface to sealingly engage the sealing surface of the tube, and (2) the second ring inner seal surface to sealingly engage a sealing surface of the first pipe element.[0006] in an example combination the second protrusion comprises a first surface that slopes radially inwardly as it progresses axially toward the first end of the tube. the second ring inner seal surface has a diameter sized to receive the first pipe element upon insertion of the first pipe element into the central space. the plurality of segments comprises no more than two the segments by way of example, and the fasteners comprise two threaded fasteners.[0007] in an example combination the second protrusion comprises a first surface that slopes radially inwardly as it progresses axially toward the first end of the tube. further by way of example the second ring inner seal surface has a diameter sized to receive the first pipe element upon insertion of the first pipe element into the central space. also by way of example the sealing ring has an outer surface engaged with and supporting the plurality of segments in a preassembled state in spaced apart relation sufficient to allow the first pipe element to be inserted into the central space.[0008] in an example combination a plurality of segments comprises no more than two the segments. further by way of example the fasteners comprise two threaded fasteners. in an example the first and second protrusions each extend continuously around an entire circumference of the tube. also by way of example the combination is shaped and configured to join the first pipe element with a second pipe element.[0009] in an example combination according to the invention the first and second pipe elements comprise different types of pipe elements. the combination is an adapter coupling that is shaped and configured to join the different types of pipe elements to each other. by way of example the fasteners, and the sealing ring together define a preassembled pipe coupling. in an example embodiment the combination is a preassembled pipe coupling that includes the plurality of segments, the fasteners, the sealing ring, and the tube. by way of example the sealing ring comprises a radially-inwardly projecting rib disposed between the first and second lobes.[0010] in an example embodiment the second protrusion extends radially outwardly less far than an inner radial extent of the second sides of the plurality of segments prior to tightening of the fasteners such that there is a radial clearance between the second protrusion and the second sides of the plurality of segments. in a further example the combination is shaped and configured to join the first pipe element with a second pipe element, and the combination is shaped and configured to be attached to the first pipe element before being attached to the second pipe element.[0011] in an example embodiment of a combination the first pipe element comprises a plain end pipe element. [0012] by way of example the combination is shaped and configured to join the first pipe element with a second pipe element, and the second pipe element comprises a flanged pipe element. in an example embodiment the tube and plurality of segments are shaped and configured to mount to the flanged pipe. [0013] the invention further encompasses a method of using the combination according to the invention. an example method comprises:[0014] while the first end of the tube is disposed in the central space, axially inserting the end of the first pipe element into the central space and [0015] while the end of the first pipe element is inserted into the central space, tightening the fasteners, which draws the plurality of segments toward one another and the central space and thereby causes (1) the first ring inner seal surface to sealingly engage the sealing surface of the tube, and (2) the second ring inner seal surface to sealingly engage the sealing surface of the first pipe element.[0016] in an example method the tightening causes the second sides of the segments to move radially inwardly past an outer radial extent of the second protrusion. a further example method of comprises attaching a second pipe element to the tube so as to form a fluid-tight seal between the second pipe element and the tube. in another example method the attaching occurs after the axially inserting and after the tightening.[0017] the invention also encompasses a tube shaped and configured for engagement with a coupling. in an example embodiment the tube comprises a plurality of segments attached to one another end to end by fasteners to form a loop around a central space. each of the segments comprising a first side and a second side, wherein a channel is disposed between the first and second sides of the plurality of segments, wherein the channel extends circumferentially around and faces the central space. a flexible, resilient sealing ring is positioned in the channel. the sealing ring comprises first and second lobes that extend radially inwardly to

Search 4: [SP]: adapter coupling a combination includes a plurality of segments attached to one another end to end around a central space. a channel is disposed between the sides of the segments. a sealing ring is positioned in the channels. a tube has a first end disposed within the central space. a first protrusion extends radially outwardly from the tube and limits the extent to which the tube can extend into the central space. the combination is configured such that an end of a pipe element may be axially inserted into the central space and fasteners can be tightened to draw the segments toward one another. (Results 0)

Search 5: [SP]: [0021] fig. 1 is an isometric exploded view of an example coupling according to the invention [0022] fig. 1a is an isometric view of an example coupling according to the invention shown in a preassembled state [0023] fig. 2 is a longitudinal sectional view taken at line 2-2 of fig. 1a [0024] fig. 3 is a cross sectional view taken at line 3-3 of fig. 2 [0025] fig. 3a is a cross sectional view taken at line 3a-3a of fig. 2 [0026] fig. 4 is an isometric view of the coupling shown in fig. 1 shown engaging a non-flanged pipe element [0027] fig. 5 is a longitudinal sectional view showing the coupling of fig. 1 connecting a flanged pipe element to a non-flanged pipe element and [0028] fig. 6 is an axial view of the coupling shown in fig. 1. (Results 407)

Search 3 AND 5 (Results 15)

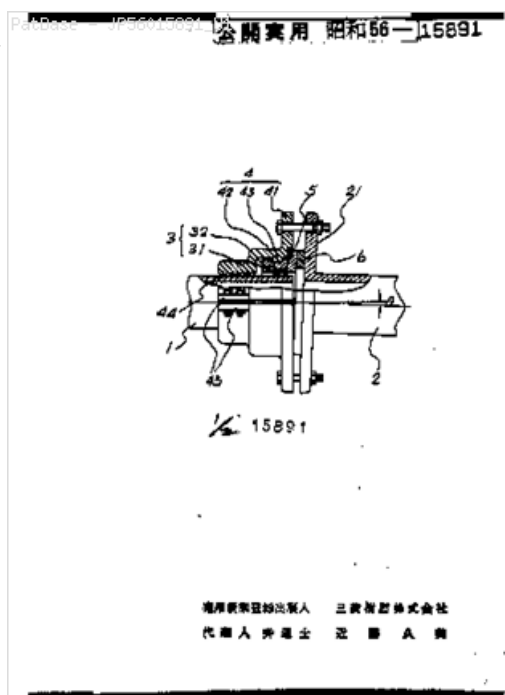
6:

1) Family number: 38788115 (JP56015891 U1)

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Classifications:

International (IPC 8-9): F16L21/06 F16L21/08 F16L23/02 F16L23/024 F16L23/026 F16L23/028 F16L27/00 F16L27/04 F16L27/06 F16L27/12 (Advanced/Invention); F16L21/06 F16L21/08 F16L23/00 F16L27/00 F16L27/02 F16L27/12 (Core/Invention)
International (IPC 1-7): F16L21/06 F16L21/08 F16L23/02 F16L27/04 F16L27/12



Family:

Publication number	Publication date	Application number	Application date
JP56015891 U1	19810210	JP19790098213U	19790717
JP59004228 Y2	19840206	JP19790098213U	19790717

Priority:

JP19790098213U 19790717

2) Family number: 34559187 (CN1959175A)

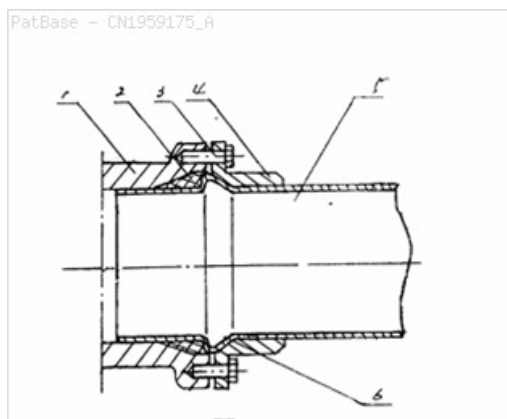
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Title: Flange card convex type zigzag connecting pipe

Abstract: A flange connection fittings of convex-check saw tooth type is prepared as forming saw tooth form surface of connection pipe by external convex of connection pipe, connecting connection flange and connector flange by bolt, supporting connection flange against one side of saw tooth form face on connection pipe and supporting another side of saw tooth form surface on connection pipe against seal gasket.

Classifications:

International (IPC 8-9): F16L23/028 (Advanced/Invention);
F16L23/00 (Core/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
CN1959175 A	20070509	CN200510110030	20051103

Priority:

CN200510110030 20051103

Probable Assignee:

WANG XINDE

Assignee(s): (std):

WANG XINDE

Inventor(s): (std):

WANG XINDE

Inventor(s):

XINDE WANG

3) Family number: 66206268 (US2017184226A)

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Title: ADAPTER COUPLING

Abstract: A coupling for joining a flanged pipe element to a non-flanged pipe element has segments that are connected end to end and surround a central space. Flange portions extend from one side of the segments. Each segment defines two channels, one of which receives a split ring for gripping the non-flanged pipe; the other channel receives a seal. A flanged tube is also positioned between the segments. The flange of the tube is positioned adjacent to the flange portions of the segments. The seal engages the tube and the non-flanged pipe element. The flange portions of the segments are bolted to the flange of the flanged pipe element and the flange of the tube is captured between the flange portions of the segments and the flange of the flanged pipe element.

Classifications:

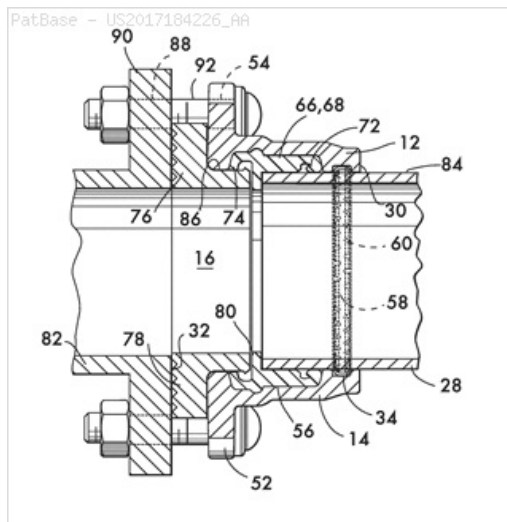
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F16L23/02 F16L23/024 F16L23/032 F16L23/22 F16L25/00 F16L47/00
F16L47/14 F16L47/24 (Advanced/Invention)

International (IPC 1-7): F16L17/04 F16L21/06 F16L23/02

CPC: F16L17/04 F16L21/08 F16L23/024 F16L23/032 F16L23/22

F16L47/14 F16L47/24

US: 1/1 285/367



Family:

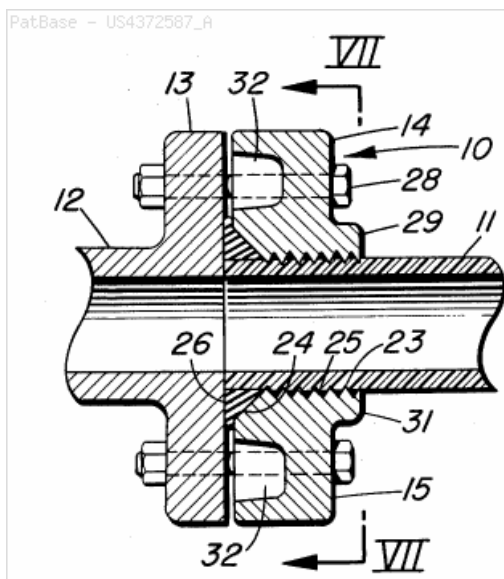
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TWI638112 B	20181011	TW20160143535	20161228
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US2019271420 AA	20190905	US20190413726	20190516
WO17116969 A1	20170706	WO2016US68258	20161222

Priority:

US20150271395P 20151228 US20160387894 20161222 WO2016US68258 20161222
US20190413726 20190516

Probable Assignee: VICTAULIC CO**Assignee(s):** (std): VICTAULIC CO ; VICTAULIC CO OF AMERICA**Assignee(s):** BOWMAN MATTHEW A ; CUVO ANTHONY J**Inventor(s):** (std): ANTHONY J CUVO ; MATTHEW A BOWMAN ; CUVO ANTHONY ; BOWMAN MATTHEW ; BOWMAN MATTHEW A ; CUVO ANTHONY J**Inventor(s):** A BOWMAN, MATTHEW A. ; J CUVO, ANTHONY J.**Agent(s):** SPRUSON AND FERGUSON; BERESKIN AND PARR LLP SENCRL SRL; SARGENT AND KRAHN; JOSE ANDRES RINCON USCATEGUI; DE ANNA PIER LUIGI; CHINA PATENT AGENT HK LTD; MAROLITA SETIATI; YURIDICHESKAYA GORODISSKIJ I PARTNER OOO FA; CHIONCHIO JOHN A ET AL**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**4) Family number: 3794285 (US4372587A)**

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Title: Adapter flange**Abstract:** Flange for attaching a pipe to a flanged member, the flange consisting of a split disc having matching bore halves which are provided with peripheral serrations.**Classifications:****International (IPC 8-9):** F16L47/14 (Advanced/Invention); F16L47/00 (Core/Invention)**International (IPC 1-7):** F16L47/00**CPC:** F16L47/14**European:** F16L47/14**US:** 285/238 285/342 285/349 285/368 285/414**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

US19790097352 19791126 US19810263710 19810414

Probable Assignee: FORD METER BOX

Assignee(s): (std): UNI FLANGE CORP

Assignee(s): BARNETT BANK OF JACKSONVILLE NA ; FORD METER BOX ; SI HOLDINGS INC

Inventor(s): (std): ROCHE CHARLES W

5) Family number: 53751413 (US2013127160A)

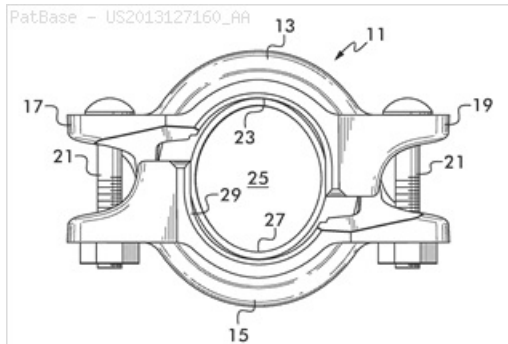
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Title: COUPLING HAVING GASKET POCKET OF VARYING DEPTH

Abstract: A mechanical coupling for joining pipe elements has segments joined end to end, each segment having a pocket of varying depth for receiving a ring gasket. The varying depth of the pocket is used to control the distortion of the ring gasket between a round shape and a non-round shape when the segments are arranged in spaced apart relation around the ring gasket, the spacing between the segments being sufficient to permit insertion of the pipe elements without disassembly of the coupling.

Classifications:

International (IPC 8-9): C12P19/00 C12P7/16 F16L F16L17/04
F16L17/06 F16L19/03 F16L19/12 F16L21/00 F16L21/06 F16L21/08
F16L23/04 F16L23/08 F16L23/18 F16L23/22
F16L25/06 (Advanced/Invention);
F16L21/00 (Core/Invention);
F16L (Subclass/Invention)
CPC: F16L21/005 F16L21/08 F16L17/04
US: 1/1 285/349 285/367



Family:

Publication number	Publication date	Application number	Application date
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US9395024 BB	20160719	US20110300861	20111121
WO13077966 A1	20130530	WO2012US62148	20121026

Priority:

US20110300861	20111121	AU20120340977	20121026	EP20120850937	20121026
EP20140191578	20121026	IN2014CN03752	20121026	IN2014CN03752	20121026
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US20160208104	20160712	JP20160175201	20160908	AU20170201945	20170322
JP20170217310	20171110				

Probable Assignee: VICTAULIC CO

Assignee(s): (std): CYGLER III FRANK J ; DOLE DOUGLAS R ; VICTAULIC CO ; VICTAULIC CO OF AMERICA ; BANCROFT PHILIP W

Assignee(s): CYGLER FRANK J III ; VICTAULIC COMPANY ; VICTAULIC CO4901 KESSLERSVILLE ROAD EASTON PA18040US ; VICTAULIC CO EASTON

Inventor(s): (std): CYGLER III FRANK J ; BANCROFT PHILIP W ; DOLE DOUGLAS R ; CYGLER FRANK J III ; CYGLER FRANK J ; CYGLER LLL FRANK J ; PHILLIP W BANCROFT ; FRANK J CYGLER III ; DOUGLAS R DOLE ; PHILIP W BANCROFT ; FRANK J III CYGLER ; CYGLER FRANK ; DOLE DOUGLAS ; BANCROFT PHILIP

Inventor(s): PHILIP W ; DOUGLAS R ; BANCROFT PHILIP W BELVIDERE ; CYGLER FRANK J III NAZARETH ; DOLE DOUGLAS R WHITE HOUSE STATION ; FRANK J CYGLER ; BANCROFT PHILIP WUS ; CYGLER FRANK J IIIUS ; DOLE DOUGLAS RUS

Agent(s): SPRUSON AND FERGUSON; BERESKIN AND PARR LLP SENCRL SRL; DEANNA PATENT; DE ANNA PIER LUIGI; MARTIN VICTORIA SOFIA; CHINA PATENT AGENT HK LTD; REINHOLD COHN AND PARTNERS; OEMER KALKAN; OEMER KALKAN ISMET INOENUE CAD MIRALAY SEFIK BEY SOK ANTALYA PALAS APT NO 5 5 GUEMUSSUYU TAKSIM IST; CENK SEVINC; BALLARD SPAHR LLP; CHIONCHIO JOHN A ET AL

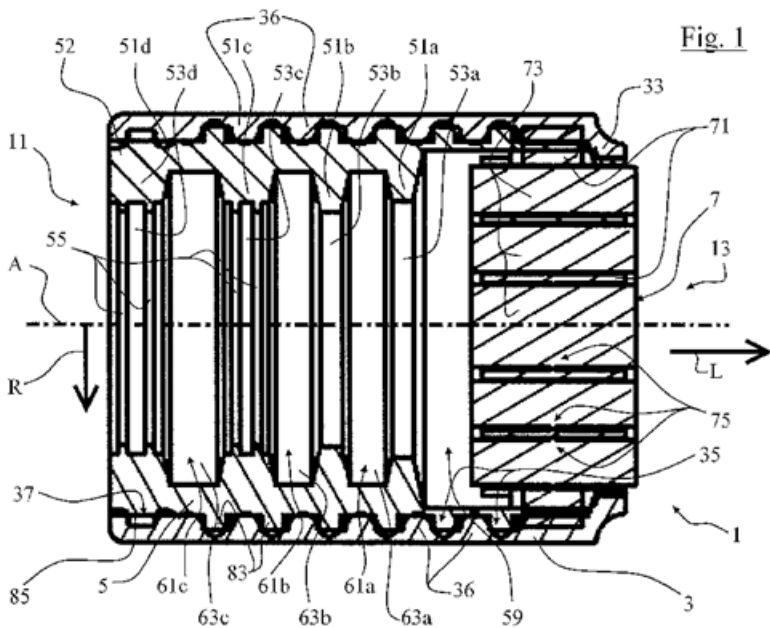
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6) Family number: 58190581 (EP3413414A3)

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Title: SEALING SLEEVE FOR A PIPE ASSEMBLY MANCHON D'ETANCHEITE POUR UN FAISCEAU D

Abstract: Source: EP3413414A3 [DE] Bei einer Dichtungsmuffe fuer einen Rohrverband mit wenigstens zwei Innenroehren zum Aufnehmen von elektrischen Leitern, wie Kabeln, und einer flexiblen, die wenigstens zwei Innenroehre umgebenden Umhuellung, umfassend wenigstens zwei den Rohrverband umgreifende Muffenschalen, insbesondere Muffenhalbschalen, die eine Einfuehroeffnung und eine Rohraustrittsoeffnung begrenzen, eine in Laengsrichtung der Dichtungsmuffe geteilte Dichtmatte, eine Dichtungsscheibe zum Abdichten der Rohraustrittsoeffnung mit wenigstens zwei Durchgaengen, von denen jeder ein Innenrohr unter Ausbildung einer umlaufenden geschlossenen Innenrohrdichtflaeche aufnehmen kann, und eine aussen an die Muffenschalen anbringbare Klemmeinrichtung zum gegenseitigen Verspannen der Muffenschalen und zum radialen Andruecken der Dichtmatte gegen die Umhuellung des Rohrverbands, ist vorgesehen, dass die Dichtmatte mehrere umlaufende, radial nach innen auf die Umhuellung erstreckende Ringwuelste zum Abdichten der Einfuehroeffnung und zwischen zwei Ringwuelsten eine umlaufende Ringnut formt, in die beim Verspannen die jeweiligen elastisch verformten Ringwuelste ausweichen, so dass eine umlaufende geschlossene Umhuellungs-dichtflaeche zwischen wenigstens einem Ringwulst und der Umhuellung gebildet ist.



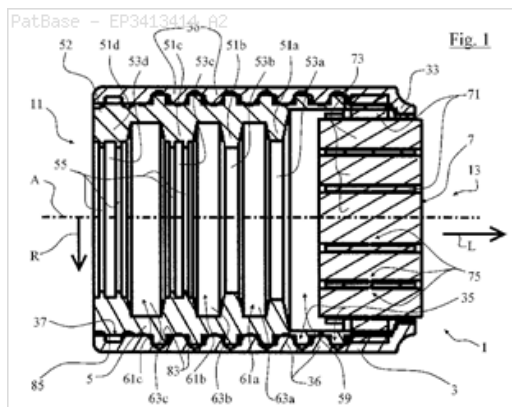
Classifications:

International (IPC 8-9): F16L17/00 F16L21/00 F16L21/06 F16L39/00

H02G15/013 H02G15/18 H02G3/06 (Advanced/Invention);

H02G15/013 (Advanced/Non-invention)

CPC: H02G3/06 F16L39/00 H02G15/013



Family:

Publication number	Publication date	Application number	Application date
DE102013011184 A1	20150108	DE201310011184	20130704
DE502014011697 D1	20190529	DE201450011697T	20140623
DK2822118 T3	20190805	DK20140002146T	20140623
EP2822118 A2	20150107	EP20140002146	20140623
EP2822118 A3	20151223	EP20140002146	20140623
EP2822118 B1	20190515	EP20140002146	20140623
EP3413414 A2	20181212	EP20180185838	20140623
EP3413414 A3	20181226	EP20180185838	20140623
RU2014125897 A	20160127	RU20140125897	20140626
RU2577911 C2	20160320	RU20140125897	20140626

Priority:

DE201310011184 20130704 EP20140002146 20140623

Probable Assignee: GABO SYSTEMTECH GMBH

Assignee(s): (std): GABO SISTEMTEKHNİK GMBKH ; GABO SYSTEMTECH GMBH

Assignee(s): GABO SYSTEMTECHNIK GMBH

Inventor(s): (std): KARL MARKUS ; LEDERER ROLAND ; GEIGER ALEXANDER ; GAJGER ALEKSANDR

Agent(s): BOEHMERT AND BOEHMERT ANWALTSPARTNERSCHAFT MBB PATENTANWAELTE RECHTSANWAELTE; SCHMID NILS TF

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

7) Family number: 57710627 (US2014327238A)

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Title: COUPLING HAVING ARCUATE STIFFNESS RIBS

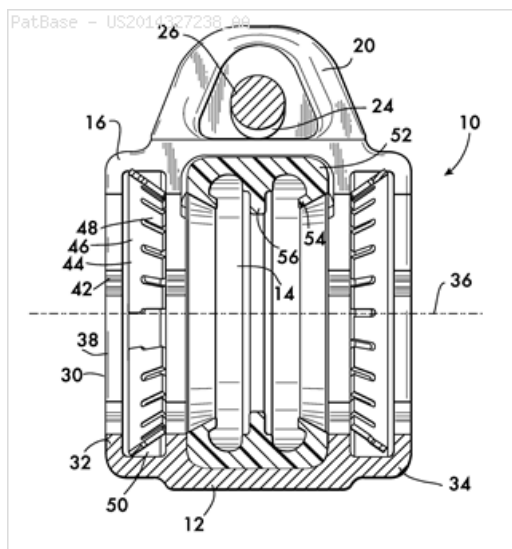
Abstract: A coupling for joining pipe elements end to end has a unitary band surrounding a central space for receiving the pipe elements. Ends of the band are in facing relation. Adjustable connection members are positioned at each end of the band for drawing the ends toward each other and deforming the band. Arcuate ribs are positioned lengthwise along opposite sides of the band. The ribs are separated from one another by gaps between the ribs. In their undeformed state, each rib has an arcuate surface with a radius of curvature equal to the radius of curvature of the outer surface of the pipe elements which they engage. When the band is deformed the ribs clamp against the outer surface of the pipe elements to effect the joint.

Classifications:

International (IPC 8-9): F16B2/08 F16B7/04 F16L F16L17/00 F16L17/02 F16L17/04 F16L19/00 F16L21/06 F16L21/08 F16L23/00 F16L25/00 F16L37/091 (Advanced/Invention); F16L (Subclass/Invention)

CPC: F16L21/06 F16L21/065 F16L37/091 F16L17/04 F16L21/08 F16L2201/10

US: 285/112



Family:

Publication number	Publication date	Application number	Application date
AU2014260149 AA	20150903	AU20140260149	20140429
AU2014260149 BB	20180118	AU20140260149	20140429
BR112015027523 A2	20170725	BR20151127523	20140429

CA2908844 AA	20151006	CA20142908844	20140429
CN105209809 A	20151230	CN201480016939	20140429
CN105209809 B	20171013	CN201480016939	20140429
DE602014009132 D1	20170608	DE201460009132T	20140429
EP2959201 A1	20151230	EP20140791555	20140429
EP2959201 A4	20160427	EP20140791555	20140429
EP2959201 B1	20170426	EP20140791555	20140429
ES2634520 T3	20170928	ES20140791555T	20140429
HK1212419 A1	20160610	HK20160100262	20160112
HK1212419 B	20180302	HK20160100262	20160112
IL240811 A0	20151029	IL20140240811	20140429
IN06669CN2015 A	20160701	IN2015CN06669	20151027
JP2016524100 T2	20160812	JP20160511797T	20140429
KR20160002689 A	20160108	KR20157023561	20140429
MX2015015161 A1	20160222	MX20150015161	20140429
MX365716 B	20190611	MX20150015161	20140429
TR201709605 T4	20170721	TR20170009605T	20140429
US2014327238 AA	20141106	US20140263350	20140428
WO14179286 A1	20141106	WO2014US35835	20140429

Priority:

US20130818686P 20130502 US20140263350 20140428 EP20140791555 20140429
WO2014US35835 20140429

Probable Assignee: VICTAULIC CO

Assignee(s): (std): VICTAULIC CO ; VICTAULIC CO OF AMERICA

Assignee(s): BOWMAN MATTHEW A ; VICTAULIC CO EASTON

Inventor(s): (std): BOWMAN MATTHEW A ; MATTHEW A BOWMAN

Inventor(s): BOWMAN MATTHEW A PALMER

Agent(s): SPRUSON AND FERGUSON; BERESKIN AND PARR LLP SENCRL SRL; DE ANNA PIER LUIGI; MARTIN VICTORIA SOFIA; CHINAHONGKONG PATENT LTD; CENK SEVINC; CHIONCHIO JOHN A ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

8) Family number: 42523644 (US2008284161A)

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Title: PIPE COUPLING HAVING MOVABLE GRIPPING BODIES

Abstract: A coupling for securing pipe elements together in end-to-end relation is disclosed. The coupling has segments joined end-to-end by adjustable connection members. The segments surround a central space which receives the pipe elements. One or more gripping bodies are captured between the segments. The gripping bodies are arranged opposite to each other. The segments have angularly oriented reaction surfaces on the connection members. The gripping bodies have angularly oriented contact surfaces which interface with the reaction surfaces. When the segments are drawn toward each other by the connection members, interaction between the reaction surfaces and the contact surfaces forces the gripping bodies radially inwardly. Inwardly facing arcuate surfaces on the segments and the gripping bodies engage and retain the pipe elements.

Classifications:

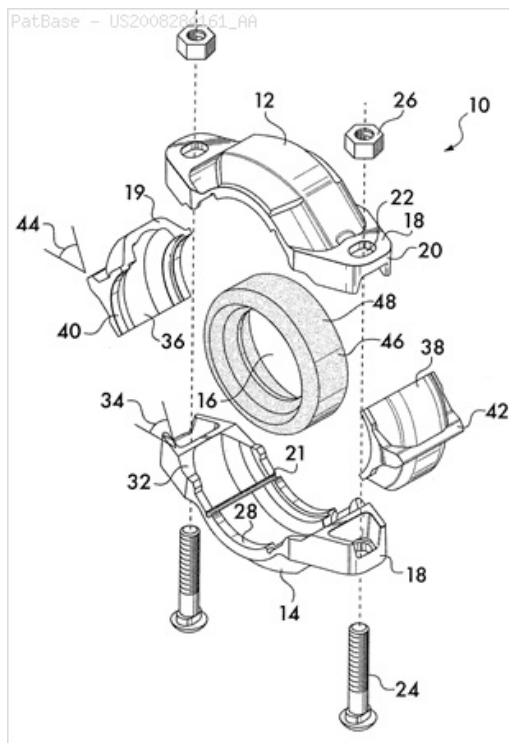
International (IPC 8-9): B21D39/04 B23P11/00 F16B2/06 F16L F16L17/00 F16L17/02 F16L17/035 F16L17/04 F16L17/06 F16L19/08 F16L21/02 F16L21/06 F16L21/08 F16L23/00 F16L23/036 F16L23/08 F16L23/18 F16L39/00 (Advanced/Invention); F16L17/00 F16L21/06 F16L23/00 F16L39/00 (Core/Invention); F16L21/06 (Core/Non-invention); F16L (Subclass/Invention)

International (IPC 1-7): F16L17/06

CPC: F16L23/08 Y10T29/49947 Y10T29/49948 Y10T29/49963 Y10T29/53987 F16L17/04 F16L21/065 F16L21/08 F16L23/18

European: F16L17/04 F16L21/06B F16L21/08 F16L23/08 F16L23/18

US: 285/148.28 285/148.280P 285/148.8 285/148.800P 285/253 285/337 285/337P 285/367 285/368 285/411 285/412 285/420 29/282 29/525.01 29/525.02 29/525.11



Family:

Publication number	Publication date	Application number	Application date
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CA2686708 AA	20081127	CA20082686708	20080514
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HK1143626 A1	20110107	HK20100110197	20101029
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US8517430 BB	20130827	US20120470522	20120514
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Priority:

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Probable Assignee: VICTAULIC CO

Assignee(s): (std): DOLE DOUGLAS R ; PORTER MICHAEL V ; SIPOS TORREY G ; VICTAULIC CO OF AMERICA

Assignee(s): VICTAULIC CO ; VICTAULIC CO EASTON ; VICTAULIC COMPANY

Inventor(s): (std): DOUGLAS R DOLE ; TORREY G SIPOS ; MICHAEL V PORTER ; DOLE DOUGLAS R ; SIPOS TORREY G ; PORTER MICHAEL V

Inventor(s): SIPOS TORREY ; DOLE DOUGLAS ; PORTER MICHAEL ; SIPOS TORREY G CATASAUQUA ; DOLE DOUGLAS R WHITEHOUSE STATION ; PORTER MICHAEL V EASTON

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BERESKIN AND PARR LLP SENCRL SRL; DE ANNA PIER LUIGI DR ING; GERVASI GEMMA; DE ANNA PIER LUIGI; MARTIN VICTORIA SOFIA; CHINA PATENT AGENT HK LTD; REINHOLD COHN AND PARTNERS; DREW AND NAPIER LLC; FOX ROTHSCHILD LLP; BALLARD SPAHR LLP; CHIONCHIO JOHN A

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

9) Family number: 21855679 (US2459251A)

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Title: THREADLESS PIPE COUPLING

Abstract: 1. A coupling for a rod or pipe joint comprising, a housing formed of longitudinal sections and shaped to surround the adjacent ends of the rod or pipe, an annular packing around said ends and countersunk into the housing. inside, annular, grooves in the housing on opposite sides of the packing, series of nested, arcuate, dogs in said grooves around, and in engagement with, said adjacent ends of the rod or pipe and means for connecting said dogs, loosely, to the corresponding housing sections, and means for pivotally connecting and disconnecting said housing sections so as to form a single unit.

Classifications:

International (IPC 8-9): F16L17/04 (Advanced/Invention);
F16L17/00 (Core/Invention)

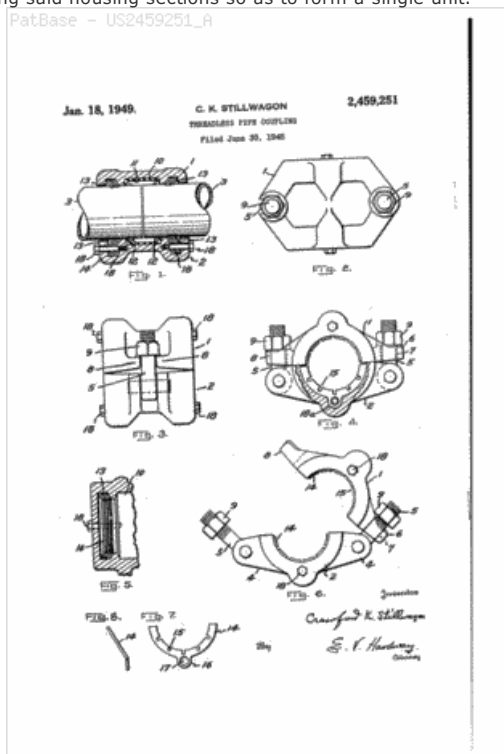
International (IPC 1-7): F16L17/00

CPC: F16L21/08 F16L17/04 Y10T403/4958

European: F16L17/04 F16L21/08

US: 285/104 285/112 285/340 285/373 403/281

PatBase - US2459251_R

**Family:**

Publication number	Publication date	Application number	Application date
US2459251 A	19490118	US19450602560	19450630

Priority:

US19450602560 19450630

Probable Assignee:

WELL EQUIPMENT MFG CORP

Assignee(s): (std):

WELL EQUIPMENT MFG CORP

Inventor(s): (std):

STILLWAGON CRAWFORD K

10) Family number: 52547706 (DE202012011293U1)

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Title: VERBUNDUNGSELEMENT ZUM VERBINDEN ZWEIER ROHRENDEN

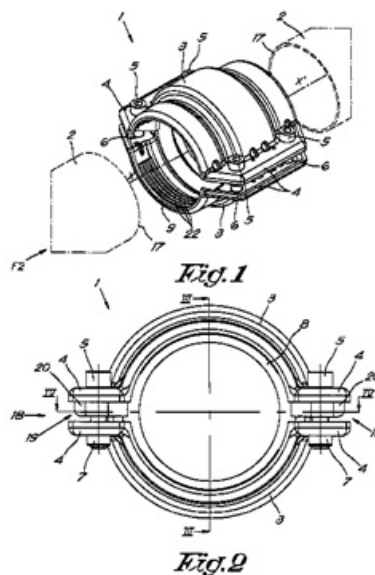
Abstract: Source: DE202012011293U1 [DE] Verbindungselement zum leckfreien miteinander Verbinden zweier zylindrischer Rohrenden (2), wobei das Verbindungselement (1) ein im Wesentlichen muffenfoermiges Element ist, das um die zu verbindenden Rohrenden (2) herum angebracht werden kann, dadurch gekennzeichnet, dass das Verbindungselement (1) durch zwei Klemmhaelften (3) gebildet wird, die jeweils mit zwei gegenueberliegenden Verbindungsflanschen (4) versehen sind, wobei die Verbindungsflansche (4) der Klemmhaelften (3) mittels Anziehmitteln (5) miteinander verbunden sind, um die Verbindungsflansche (4) in montiertem Zustand um die Rohrenden (2) aufeinander anziehen zu koennen, wobei das Verbindungselement (1) eine Dichtung (8) umfasst, die zwischen den Klemmhaelften (3) gefasst sitzt und wobei an beiden Seiten der Dichtung (8) mindestens ein segmentfoermiges Griffelement (9) vorgesehen ist, das in einer Klemmhaelfte (3) gefasst sitzt.

Classifications:

International (IPC 8-9): F16L13/14 F16L21/06 F16L23/036 F16L23/08

F16L23/18 (Advanced/Invention)

CPC: F16L21/065 F16L17/04 F16L21/005 F16L21/08

**Family:**

Publication number	Publication date	Application number	Application date
■ CN103133794 A	20130605	CN201210141652	20120509
■ CN103133794 B	20160803	CN201210141652	20120509
■ CN202580384 U	20121205	CN201220205532U	20120509
■ DE202012011293 U1	20130307	DE201220011293U	20121123
■ FR2983555 A3	20130607	FR20120061325	20121128
■ FR2983555 B3	20140314	FR20120061325	20121128
■ IN01348KO2012 A	20130628	IN2012KO01348	20121123
■ ITRM20120201 U1	20130602	IT2012RM00201U	20121122

Priority:

BE20110000699 20111201 CN201220205532U 20120509

Probable Assignee: ATLAS COPCO AB**Assignee(s):** (std): ATLAS COPCO AB ; ATLAS COPCO AIRPOWER NAAMELOZE VENNOOTSCHAP ; ATLAS COPCO AIRPOWER NV**Assignee(s):** ATLAS COPCO AIRPOWER NAAMLOZE VENNOOTSCHAP ; ATLAS COPCO AIRPOWER NAAMLOZEVENNOOTSCHAP ; ATLAS COPCO AIRPOWER NV**Inventor(s):** (std): VAN OVERBEKE ELKE ; ULENAERS TIM ; E VAN OVERBECK ; T ULENEILS**Inventor(s):** ELKE VAN OVERBEKE ; TIM ULENAERS ; TULENEILS ; EVAN OVERBECK**Agent(s):** CABINET LAURENT ET CHARRAS**11) Family number: 20210761** (FR1201165A)

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Title: Raccord pour tubes en matieres plastiques souples ou semi-rigides, et particulierement en polyethylene Fitting for flexible plastic tubing material or semi-rigid, and particularly polyethylene (Machine translation)**Classifications:****International (IPC 8-9):** F16L23/028 F16L47/14 (Advanced/Invention); F16L23/00 F16L47/00 (Core/Invention)**International (IPC 1-7):** F16L23/00 F16L33/22**CPC:** F16L23/0286 F16L47/14**European:** F16L23/028D F16L47/14

N° 1.831.385 Section à l'échelle 1/100ème (voir: Chiffres en Ligne) PL. unique

Fig.-1

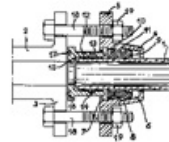
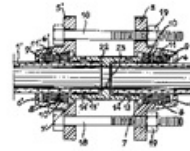


Fig.-2

**Family:**

Publication number	Publication date	Application number	Application date
FR1201165 A	19591229		19580807

Priority:

19580807

Probable Assignee: LOUIS LOTIGIE ETS**Assignee(s):** (std): LOUIS LOTIGIE ETS**Assignee(s):** ETABLISSEMENTS LOUIS LOTIGIE**12) Family number: 12485839** (FR2683017A)

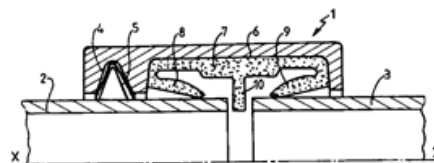
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Title: Coupling for tubes

Abstract: a) Coupling for smooth tubes. b) Coupling characterised in that: - the anchoring member (5) is a member in the form of an open annulus with V-shaped section, the two branches (51, 52) of which terminate at their free edge in fastening teeth (54), - the housing (4) of the shell (1, 1') is a groove of V-section which is flared (45, 46) at least in the joining plane.

Classifications:**International (IPC 8-9):** F16L17/04 (Advanced/Invention)**International (IPC 1-7):** F16L21/08**CPC:** F16L17/04 F16L21/08**European:** F16L17/04 F16L21/08

PatBase - FR2683017_R1

**Family:**

Publication number	Publication date	Application number	Application date
FR2683017 A1	19930430	FR19910013189	19911025
FR2683017 B1	19940204	FR19910013189	19911025

Priority:

FR19910013189 19911025

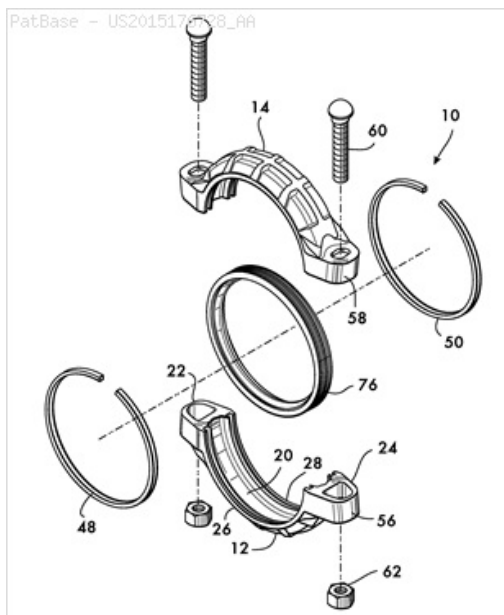
Probable Assignee: LEVIVIER YVES**Assignee(s):** LEVIVIER YVES**Inventor(s):** (std): YVES LEVIVIER**Inventor(s):** LEVIVIER YVES**13) Family number: 59582843** (US2015176728A)

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Title: SPLIT RING COUPLING

Abstract: A pipe coupling has segments attached end to end to define a central space that receives pipe elements inserted between the segments. The segments are supported on split rings received within grooves in each segment. The segments are supported in spaced relation in a preassembled state to permit insertion without disassembly of the coupling. The grooves in the segments have a floor surface with three surface portions. Two of the surface portions on each groove of each segment engage the split rings when the segments are supported in spaced relation.

Internal (CPC 8-9): F16B2/08 F16B7/04 F16B7/18 F16L
F16L17/04 F16L19/02 F16L19/065 F16L21/06 F16L21/08 F16L37/088
F16L37/091 (Advanced/Invention);
F16L21/08 F16L43/00 (Advanced/Non-invention);
F16L (Subclass/Invention)
CPC: F16L17/04 F16L21/065 F16L21/08 F16L37/088 F16L37/091
F16L43/00
US: 1/1 285/309 285/321 285/373



Publication number	Publication date	Application number	Application date
AU2014370101 AA	20160317	AU20140370101	20141218
AU2014370101 BB	20190117	AU20140370101	20141218
AU2019200142 AA	20190131	AU20190200142	20190110
AU2019200142 BB	20190523	AU20190200142	20190110
BR112016012511 A2	20180522	BR20161112511	20141218
CA2924125 AA	20160310	CA20142924125	20141218
CL2016001610 A1	20161125	CL20160001610	20160622
CL57285 B	20190417	CL20160001610	20160622
CN106062457 A	20161026	CN201480070382	20141218
CN106062457 B	20190618	CN201480070382	20141218
DE602014040192 D1	20190221	DE201460040192T	20141218
DK3039332 T3	20190311	DK20140874829T	20141218
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ES2720491 T3	20190722	ES20140874829T	20141218
HK1228488 A1	20171103	HK20170102058	20170224
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IN201647020541 A	20160831	IN201647020541	20160616
JP2017508103 T2	20170323	JP20160520634T	20141218
JP6566485 B2	20190828	JP20160520634T	20141218
KR20160102153 A	20160829	KR20167008696	20141218
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PL3039332 T3	20190830	PL20140874829T	20141218
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US2015176728 AA	20150625	US20140574984	20141218
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Agent(s): SPRUSON AND FERGUSON; BERESKIN AND PARR LLP SENCRL SRL; ESTUDIO CLARKE MODET AND CO CHILE LIMITADA; DEANNA PATENT; DE ANNA PIER LUIGI; MARTIN VICTORIA SOFIA; CHINA PATENT AGENT HK LTD; CENK SEVINC; BALLARD SPAHR LLP; CHIONCHIO JOHN A ET AL

PatBase PDF Export - Page: 13 30/10/2019

Title: COUPLING WITH NOTCHED PROJECTIONS HAVING GASKET POCKET OF VARYING DEPTH

Abstract: A mechanical coupling for joining pipe elements has segments joined end to end, each segment having a pocket of varying depth for receiving a ring gasket. The varying depth of the pocket is used to control the distortion of the ring gasket between a round shape and a non-round shape when the segments are arranged in spaced apart relation around the ring gasket, the spacing between the segments being sufficient to permit insertion of the pipe elements without disassembly of the coupling. Notches in the projections which engage the pipe elements facilitate insertion of pipe elements and provide for a compact coupling design.

Classifications:

International (ipc 8-9): F16L F16L17/025 F16L17/04 F16L19/12 F16L21/00 F16L21/06 F16L23/04 F16L23/08 F16L25/06 F16L25/08

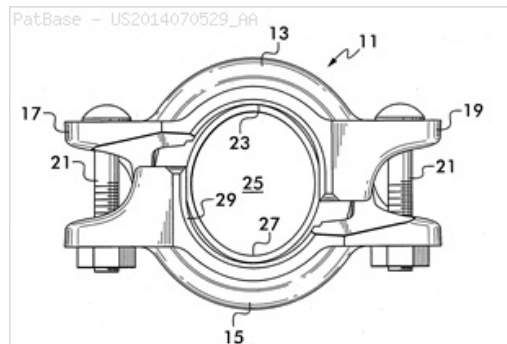
F16L37/12 (Advanced/Invention);

F16L (Subclass/Invention)

International (ipc 1-7): F16L17/04

CPC: F16L21/06 F16L25/06 F16L17/04 F16L21/005

US: 1/1 285/337



Family:

Publication number	Publication date	Application number	Application date
AU2013316023 AA	20150205	AU20130316023	20130731
AU2013316023 BB	20180802	AU20130316023	20130731
AU2018204438 AA	20180712	AU20180204438	20180620
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MX355605 B	20180424	MX20150003091	20130731
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US2014070529 AA	20140313	US20130794930	20130312
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Priority:

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JP20170135425	20170711	AU20180204438	20180620		

Probable Assignee: VICTAULIC CO

Assignee(s): (std): VICTAULIC CO ; VICTAULIC CO OF AMERICA

Assignee(s): VICTAULIC CO EASTON ; BANCROFT PHILIP W ; CYGLER FRANK J ; DOLE DOUGLAS R

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Inventor(s): BANCROFT PHILIP W BELVIDERE ; DOLE DOUGLAS R WHITEHOUSE STATION ; CYGLER FRANK J NAZARETH

Agent(s): SPRUSON AND FERGUSON; BERESKIN AND PARR LLP SENCRL SRL; DE ANNA PIER LUIGI DR ING; DE ANNA PIER LUIGI; MARTIN VICTORIA SOFIA; CENK SEVINC; BALLARD SPAHR LLP; ROSENBERG SUMNER C ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PIPE JOINT DEVICE BY FLANGE

Abstract: A pipe joint device using flanges is disclosed. The pipe joint device includes: flanges mounted to ends of pipes to be coupled together or ends of both a pipe and a pipe joint to be coupled together, the flange having at least one ring groove around an outer circumferential surface thereof; a packing mounted to the flanges and having inner rings around an inner circumferential surface thereof to closely engage with the ring grooves of the flanges; and a clamp having a packing seat to seat the packing therein, with a support sidewall formed by a radial inward extension of each side of the clamp, the clamp being divided into a plurality of clamp parts so that the clamp parts are placed around the packing and are fastened together by a locking member.

Classifications:

International (ipc 8-9): F16L21/02 F16L21/06 F16L21/08 F16L23/00

F16L23/08 F16L23/16 (Advanced/Invention);

F16L21/06 F16L21/08 F16L23/00 (Advanced/Non-invention);

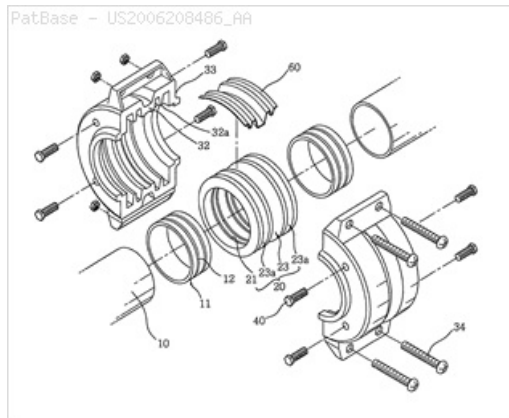
F16L21/02 F16L21/06 F16L21/08 F16L23/00 (Core/Invention)

International (ipc 1-7): F16L21/06 F16L21/08 F16L23/00

CPC: F16L21/06 F16L23/08 F16L23/00 F16L21/08

European: F16L21/06 F16L23/08

US: 285/364 285/368 285/373 285/406 285/420



Family:

Publication number	Publication date	Application number	Application date
■ CN100587305 C	20100203	CN200480000954	20040722
■ CN1701196 A	20051123	CN200480000954	20040722
■ JP2007500324 T2	20070111	JP20060521780T	20040722
■ JP4241827 B2	20090318	JP20060521780T	20040722
■ KR100574745 B1	20060427	KR20040056745	20040721
■ KR20050013496 A	20050204	KR20040056745	20040721
■ KR20050095291 A	20050929	KR20040020596	20040326
■ US2006208486 AA	20060921	US20040566284	20040722
■ US7722092 BB	20100525	US20040566284	20040722
■ WO05010422 A1	20050203	WO2004KR01821	20040722

Priority:

KR20030052141 20030728 KR20040020596 20040326 WO2004KR01821 20040722

Probable Assignee: KIM SU GEN

Assignee(s): (std): GEN KIM SU ; KIM SU G ; KIM SU GEN

Inventor(s): (std): KIM SU GEN ; KIM SU G ; GEN KIM SU

Inventor(s): KIM SU

Agent(s): BELL BOYD AND LLOYD LLC ; K AND L GATES 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 KP KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW