

Search history

Search 1: (CPC = (B21D39/04 OR F16L13/142 OR F16L13/146)) AND (PD<20141031) (Results 1806)

Search 2: 1 AND (FT = fitting NEAR (tube* OR conduit*)) (Results 273)

Search 3: 2 AND (FT = crimp* OR clamp*) (Results 127)

Search 4: 3 AND (FT = sleeve AND ring) (Results 59)

Search 5: 4 AND (FT = step* OR shoulder) (Results 43)

Title: Rohrverbindung

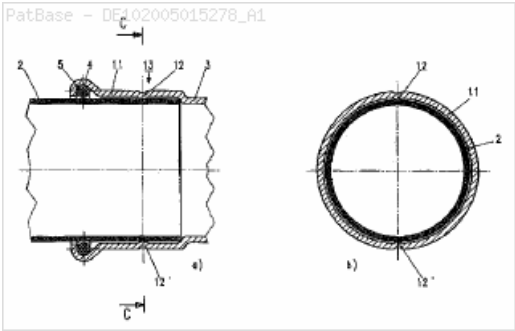
Abstract: The fitting has a metallic press fitting having a cylindrical section cross section with a bulge-like part. A sealing element take up section is provided which has a module side being cylindrically shaped forming a stop into a press fitting characterizing section. Either the conduit or the press fitting (1, 7) deviates in shape and or on a surface, and has an axial return motion of a pushed in conduit (2) making it difficult to change. The end part of the conduit which can be pushed in has an oval cross section.

Classifications:

International (IPC 8-9): F16L13/14 F16L47/00 (Advanced/Invention); F16L13/14 F16L47/00 (Core/Invention)

CPC: F16L13/142 F16L13/148 F16L2201/10

European: F16L13/14 F16L13/14B3 F16L13/14H R16L201/10



Family:

Publication number	Publication date	Application number	Application date
DE102005015278 A1	20061012	DE200510015278	20050329
DE102005015278 B4	20100610	DE200510015278	20050329

Priority:

DE200510015278 20050329

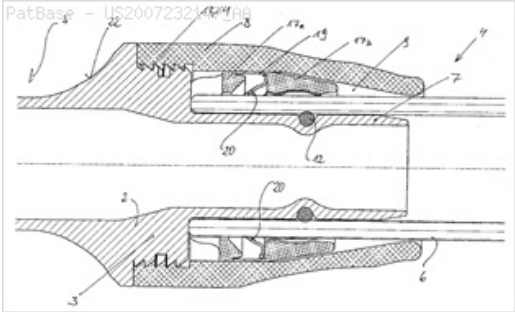
Probable Assignee: GEBERIT TECHNIK AG
Assignee(s): (std): GEBERIT INT AG ; GEBERIT TECHNIK AG
Assignee(s): GEBERIT INTERNATIONAL AG
Inventor(s): (std): LUCKA SASCHA

Title: PLUG-TYPE CONNECTOR

Abstract: The invention relates to a plug-type connector for pipelines, having a first and a second connection end (4, 5), with a first connection end (4) being in the form of a first support body (7), the first support body (7) being provided with a closure ring (8), the closure ring (8) and the first support body (7) forming an annular space (9) for accommodating a pipe end, and means being provided for securing the pipe end, which is inserted into the annular space (9), in a clamping manner against axially acting withdrawal forces. The plug-type connector is distinguished in that a second connection end (5) is designed to be press-connected to a plug-in end of a metal pipe or to a plug socket, which is widened in the manner of a bushing, of a metal pipe or to a metal press fitting.

Classifications:

International (IPC 8-9): F16L13/14 F16L19/08 F16L21/08 F16L33/22 F16L35/00 F16L37/09 F16L37/091 F16L37/092 H01R33/00 (Advanced/Invention); F16L13/14 F16L19/00 F16L21/08 F16L33/22 F16L37/00 H01R33/00 (Core/Invention)
CPC: F16L13/142 F16L37/091 F16L37/0925
European: F16L13/14 F16L13/14B3 F16L37/091 F16L37/092B
US: 285/104 285/113 285/306 285/307 285/331 285/340 439/638 439/638P



Family:

Publication number	Publication date	Application number	Application date
AT503145 E	20110415	AT20070003624T	20070222
DE102006015158 A1	20071011	DE200610015158	20060330
DE102006015158 B4	20091029	DE200610015158	20060330
DE202006019798 U1	20070816	DE200620019798U	20060330
DE502007006752 D1	20110505	DE200750006752T	20070222
DK1840434 T3	20110711	DK20070003624T	20070222
EP1840434 A2	20071003	EP20070003624	20070222
EP1840434 A3	20081224	EP20070003624	20070222
EP1840434 B1	20110323	EP20070003624	20070222
RU2342591 C1	20081227	RU20070111673	20070329
UA89059 C2	20091225	UA20070003462	20070329
US2007232147 AA	20071004	US20070693987	20070330
US7900973 BB	20110308	US20070693987	20070330

Priority:

DE200610015158 20060330 DE200620019798U 20060330

Probable Assignee: SANHA GMBH AND CO KG

Assignee(s): (std): KAIMER GMBH AND CO HOLDING KG ; KAJMER GMBKH U KO KHOLDING K ; KAJMER GMBKH UND KO KHOLDING K

Assignee(s): SANHA GMBH AND CO KG ; SANHA KAIMER GMBH AND CO HOLDING KG ; KAJMER GMBKH U KO KHOLDING KG ; KAJMER GMBKH UND KO KHOLDING KG ; KAIMER GMBH

Inventor(s): (std): HERBERG TOM ; KAIMER BERND ; KAJMER BERND ; KHERBERG TOM

Agent(s): POLYPATENT; GROSSMAN TUCKER PERREAULT AND PFLEGER PLLC

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 MK NL PL PT RO RS SE SI SK TR YU

Title: METHOD FOR THE PRESSING OF A PRESS FITTING, AND PRESSING TOOL FOR THIS PURPOSE

Abstract: The invention firstly relates to a method for the pressing of a press fitting (3), with a tube (2) inserted into the press fitting (3), by means of a pressing tool (1), wherein the press fitting (3) has an encircling bead (31) in which an O-sealing ring (32) is placed, wherein the tube (2) ends within the press fitting (3) and a first pressing is carried out within the bead (31), wherein, furthermore, a further pressing is carried out on the tube-insert side of the press fitting (3) at a distance from the bead, the further pressing leading to press fitting (3) and tube (2) obtaining a conicity which prevents them being pulled off and runs in the same direction. Furthermore, the invention relates to a pressing tool (1) suitable for carrying out the method. In order to further improve a method of the type under discussion, in particular for simplifying the handling over the course of the pressing operation, and in order to improve a pressing tool of the type under discussion, in particular in terms of handling while maintaining the functional reliability of the press connection which is to be produced, it is proposed, in terms of the method, that the head (31) is widened axially over the course of the pressing operation by being acted upon radially from the outside. In terms of the object, it is provided that the first pressing geometry (21), which is assigned to the bead (31), leaves the bead (31) space at least in one direction for the axial widening of the bead (31).

Classifications:

International (IPC 8-9): B21D37/10 B21D39/00 B21D39/04 B23P11/00 B23P19/04 B23Q1/00 B25B27/10 B30B1/10 F01K27/00 F16L13/14 (Advanced/Invention); F16L19/00 (Advanced/Non-invention); B21D39/04 B23P11/00 B23Q1/00 B25B27/02 B30B1/00 F16L13/14 (Core/Invention)

International (IPC 1-7): F16L13/14

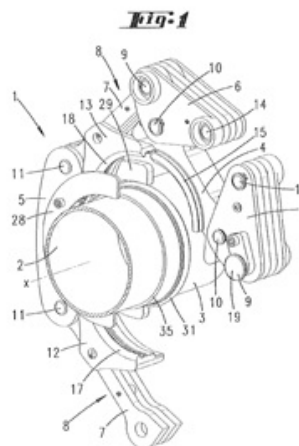
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European: B21D39/04D B25B27/10 F16L13/14B3

US: 285/382.1 285/382.2 285/39 29/235 29/237 29/282 29/283.5 29/283.500S 29/505 29/516 29/516P 72/409.01 72/416

PatBase - US2010229368_AA

Patent Application Publication Sep. 16, 2010 Sheet 1 of 17 US 2010/0229368 A1



Family:

Publication number	Publication date	Application number	Application date
CA2658938 AA	20090126	CA20072658938	20070822
CA2658938 C	20150929	CA20072658938	20070822
CN101501383 A	20090805	CN200780030285	20070822
CN101501383 B	20130821	CN200780030285	20070822
CN102962810 A	20130313	CN201210395714	20070822
CN102962810 B	20160629	CN201210395714	20070822
DE102006050427 A1	20080228	DE200610050427	20061020
DE502007011668 D1	20130620	DE200750011668T	20070822
DE502007013560 D1	20141218	DE200750013560T	20070822
EP2057397 A1	20090513	EP20070802803	20070822
EP2057397 B1	20130424	EP20070802803	20070822
EP2400199 A1	20111228	EP20110181969	20070822
EP2400199 B1	20141105	EP20110181969	20070822
ES2411690 T3	20130708	ES20070802803T	20070822
ES2524165 T3	20141204	ES20110181969T	20070822
IN00727DN2009 A	20090515	IN2009DN00727	20090130
IN201818008226 A	20180601	IN201818008226	20180306
IN294929 B	20180330	IN2009DN00727	20090130
JP2010506727 T2	20100304	JP20090525068T	20070822
JP5396273 B2	20140122	JP20090525068T	20070822
KR101468440 B1	20141203	KR20097005647	20070822
KR20090046946 A	20090511	KR20097005647	20070822
RU2009110213 A	20100927	RU20090110213	20070822
RU2434176 C2	20111120	RU20090110213	20070822
US2010229368 AA	20100916	US20070377520	20070822
US2013277958 AA	20131024	US20130919397	20130617
US8490261 BB	20130723	US20070377520	20070822
US9015916 BB	20150428	US20130919397	20130617
WO08023035 A1	20080228	WO2007EP58731	20070822

Priority:

DE200610003936 20060822	DE200610039364 20060822	DE200610005042 20061020
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US20090377520 20090601	US20130919397 20130617	

Probable Assignee: GUSTAV KLAUKE GMBH

Assignee(s): (std): GUSTAV KLAUKE GMBKH ; KLAUKE GMBH GUSTAV ; MEYER ULRICH ; SCHMITZ MICHAEL ;

WASCHESZIO STEFAN ; WILSDORF FRANK ; FRENKEN EGBERT

Assignee(s): GUSTAV KLAUKE GMBH

Inventor(s): (std): EGBERT FRENKEN ; FRANK WILSDORF ; FRENKEN EGBERT ; FRENKEN EHGBERT ; MEJER UL RIKH ; MEYER ULRICH ; MICHAEL SCHMITZ ; SCHMITZ MICHAEL ; SHMITTS MIKHEL ; STEFAN WASCHESZIO ; ULRICH MEYER ; VASHESTSIO SHTEFAN ; VIL SDORF FRANK ; WASCHESZIO STEFAN ; WILSDORF FRANK

Inventor(s): VIL'SDORF FRANK ; SHMITTS MIKHEL' ; MEJER UL'RIKH

Agent(s): BLAKE CASSELS AND GRAYDON LLP; RIEDER AND PARTNER PATENTANWALTE RECHTSANWALT; MUELLER ENNO ET AL; MUELLER ENNO; LEHMANN MARIA ISABEL; KOJIMA TAKIRO; CLARK HILL PLC; KLINTWORTH AND ROZENBLAT IP LLC

Designated states: AE AG AL AM 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

Title: **CRIMPED**/SWAGED-ON TUBING TERMINATION APPARATUS, SYSTEMS AND METHODS

Abstract: A tubing termination comprises a termination portion adapted to make a fluid connection and a tube attachment portion, adapted to receive a tube and to be **crimped** or swaged. The tube attachment portion comprises a retention mechanism that is adapted to be manipulated during **crimping** or swaging to bite the tube so as to lock the tube attachment portion relative to the tube. This retention mechanism may take the form of a deformable bite **ring**, a deflectable c-insert, irregularities defined on an inner surface of the tube attachment portion, and/or the like. The tube attachment portion also may include a resilient sealing mechanism adapted to provide a seal between the tube and the tube attachment portion, and thereby a fluid-tight connection between the tube and the termination portion.

Classifications:

International (IPC 8-9): B21D39/04 B23P11/00 B23P17/00

F16L13/14 (Advanced/Invention);

B21D39/04 B23P17/00 F16L13/14 (Core/Invention)

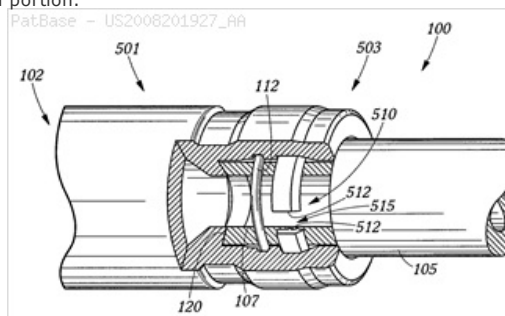
CPC: Y10T29/49908 Y10T29/49911 Y10T29/4994 Y10T29/5367

F16L13/142

European: F16L13/14B3

US: 285/335 285/335S 285/382 285/382.2 29/237 29/237P 29/505

29/505P 29/507 29/523



Family:

Publication number	Publication date	Application number	Application date
BRPI0807543 A2	20140617	BR2008PI07543	20080215
EP2117748 A2	20091118	EP20080725692	20080215
US2008201927 AA	20080828	US20070710369	20070223
US2011138605 AA	20110616	US20110009244	20110119
US7954861 BB	20110607	US20070710369	20070223
WO08103315 A2	20080828	WO2008US02084	20080215
WO08103315 A3	20081127	WO2008US02084	20080215

Priority:

US20070710369 20070223

WO2008US02084 20080215

US20110009244 20110119

Probable Assignee: GATES CORP

Assignee(s): (std): EYSTER TODD A ; SWIFT JONATHAN C ; GILBREATH DONALD R ; GATES CORP ; KEAST GEOFFREY R

Assignee(s): GATES A DELAWARE CORP ; GATES MECTROL INC A DELAWARE CORP ; WILMINGTON TRUST FSB COLLATERAL AGENT AS ; AQUATIC CO ; CITIBANK NA COLLATERAL AGENT AS ; CITICORP USA INC COLLATERAL AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGENT AG AS ; EIFELER MASCHINENBAU GMBH

Inventor(s): (std): SWIFT JONATHAN C ; KEAST GEOFFREY R ; GILBREATH DONALD R ; EYSTER TODD A

Inventor(s): DONALD R GILBREATH ; GEOFFREY R KEAST ; JONATHAN C SWIFT ; TODD A EYSTER

Agent(s): TUNSTALL CHRISTOPHER STEPHEN; GATES CORP; T A; J A; P N; MAHURIN JERRY L

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

Title: FLUID **CONDUITS** WITH INTEGRAL END **FITTINGS** AND ASSOCIATED METHODS OF MANUFACTURE AND USE

Abstract: Fluid conduits for plumbing and other uses having integral end fittings are disclosed herein. A method of forming a fluid conduit in accordance with an embodiment of the disclosure includes providing a copper tube having a first inner diameter and a first wall thickness, and heat treating an end portion of the copper tube to a predetermined hardness. The method can further include increasing the wall thickness of the end portion from the first wall thickness to a second wall thickness, and increasing the inner diameter of the end portion from the first inner diameter to a second inner diameter. The method further includes forming a circular groove in an interior surface of the end portion and positioning a seal in the circular groove.

Classifications:

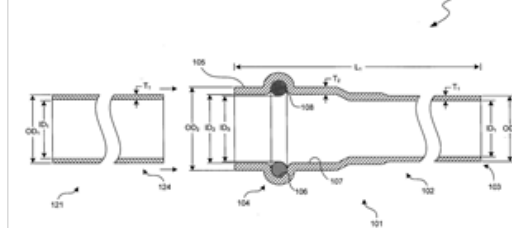
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CPC: B21J5/08 F16L13/142 F16L21/03 F16L21/035

European: B21J5/08 F16L13/14B3 F16L21/03 F16L21/035

US: 285/331 285/331P 285/374 285/382 72/342.1 72/342.100P 72/370.03 72/370.06 72/370.21

PatBase - US2009173130_AA



Family:

Publication number	Publication date	Application number	Application date
CA2711155 AA	20100629	CA20082711155	20080616
EP2238381 A1	20101013	EP20080771186	20080616
EP2238381 A4	20130227	EP20080771186	20080616
US2009173130 AA	20090709	US20080137442	20080611
US2009174182 AA	20090709	US20080969844	20080104
US7942456 BB	20110517	US20080969844	20080104
US7987690 BB	20110802	US20080137442	20080611
WO09088526 A1	20090716	WO2008US67115	20080616

Priority:

US20080969844 20080104 US20080137442 20080611 WO2008US67115 20080616

Probable Assignee: CERRO FLOW PRODUCTS INC

Assignee(s): (std): CERRO FLOW PRODUCTS INC ; CERRO FLOW PRODUCTS LLC ; DUGGAN MICHAEL ; NIXON FORREST ; BLAIR SR STEVEN L ; BLAIR STEVEN L

Inventor(s): (std): BLAIR SR STEVEN L ; BLAIR STEVEN L ; DUGGAN MICHAEL ; NIXON FORREST

Agent(s): REGEHR HERBERT B; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUESSER
ANWALTSSOZIIETÄT; PERKINS COIE LLP,PATENT-SEA; PERKINS COIE LLP PATENT SEA; PERKINS
COIE LLP; PILLING CAMERON B ET AL

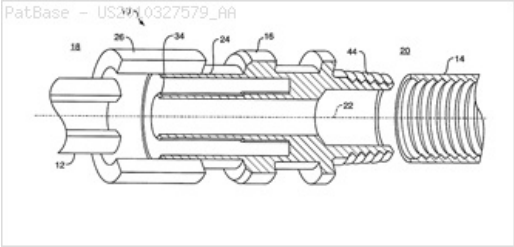
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Title: FLUID FITTING

Abstract: A fitting for securing a first fluid conduit to a second fluid conduit includes a coupling body and a die ring. The coupling body includes a first end and a second end defining an enclosed passage along a longitudinal axis therethrough. The first end of the coupling body includes a deformable compression sleeve having an outer diameter and an inner diameter defining a thickness. The die ring is disposed in surrounding relation to the compression sleeve, and includes an inner surface and engagement surface, wherein the engagement surface includes a diameter that is less than the outer diameter of the compression sleeve. When the first fluid conduit is inserted into the coupling body, the die ring engagement surface is adapted to compress the compression sleeve radially inward when the die ring is urged in an axial direction towards a second end of the coupling body. At least a portion of the compression sleeve flows between the inner surface of the die ring and an outer surface of the first fluid conduit. In one embodiment, the first fluid conduit is a hydraulic hose. In another embodiment, the first fluid conduit is cross-linked polyethylene tubing.

Classifications:

International (IPC 8-9): F16L13/14 F16L15/00 F16L21/06 F16L37/08 (Advanced/Invention); F16L15/00 F16L21/06 (Core/Non-invention)
CPC: F16L13/146 F16L33/225
European: F16L13/14D F16L33/22H
US: 285/382 285/382P



Family:

Publication number	Publication date	Application number	Application date
TW201100684 A	20110101	TW20100120704	20100624
US2010327579 AA	20101230	US20090491461	20090625
WO10151752 A2	20101229	WO2010US39971	20100625
WO10151752 A3	20110324	WO2010US39971	20100625

Priority:

US20090491461 20090625

Probable Assignee: JOHN MEZZALINGUA ASSOCIATES INC

Assignee(s): (std): MEZZALINGUA JOHN ASS ; MONTENA NOAH

Assignee(s): JOHN MEZZALINGUA ASSOCIATES INC

Inventor(s): (std): MONTENA NOAH

Agent(s): MARJAMA MULDOON/PPC; MARJAMA MULDOON PPC; YODER STEPHEN R ET AL

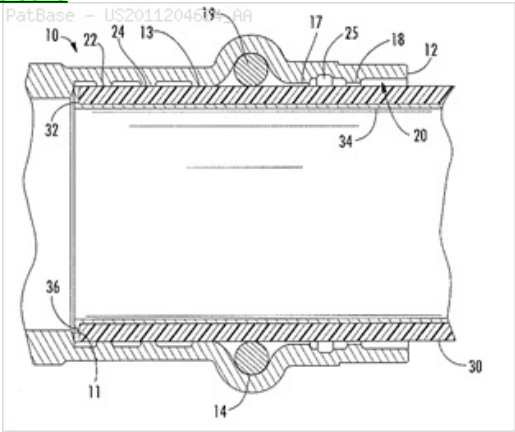
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Title: UNIVERSAL CONNECTION SOCKET

Abstract: A universal connection socket includes in one embodiment a plurality of spaced radially inwardly projecting barbs spanning opposite sides of a circumferential O-ring receiving groove and dimensioned to grip, when crimped, a fluid conduit in sealable engagement within the socket. In another embodiment of the invention, an annular recess adjacent the O-ring groove releasably receives a locking sleeve for a push-type connector for compressing the O-ring during insertion of a conduit. The sleeve is subsequently partially withdrawn and has an inwardly extending locking barb to engage the conduit, lockably holding the conduit in place. An outwardly extending gripping edge cams the locking barb as a locking wedge is inserted between the end of the socket and the annular flange of the sleeve.

Classifications:

International (IPC 8-9): F16L19/00 (Advanced/Invention)
CPC: F16L13/142 F16L21/08
European: F16L13/14B3 F16L21/08
US: 285/345 285/345P



Title: PRESS FITTING AND USE THEREOF

Abstract: A press fitting, including a tubular component and has an end portion of the tubular component which can be compressed to make a connection. The end portion has an opening to receive a and a first region having an annular ridge to receive a sealing **ring**. A second region is arranged on the side of the ridge adjacent the opening and a third region is arranged on the side of the ridge remote from the opening. The overall wall thickness of the press fitting in the second region is increased at least in a section or sections in comparison with the wall thickness of the tubular component in the third region.

Classifications:

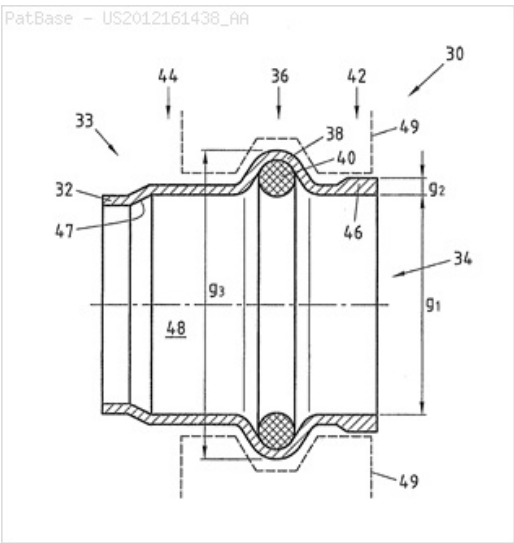
International (IPC 8-9): B21C37/28 F16L13/14 F16L19/00
F16L21/00 (Advanced/Invention);

B21D17/02 B21D19/00 (Advanced/Non-invention)

CPC: F16L13/142 B21C37/28 B21D17/025 B21D19/00

European: F16L13/14B3

US: 285/382 285/382P



Family:

Publication number	Publication date	Application number	Application date
AU2011265344 AA	20120712	AU20110265344	20111220
AU2011265344 BB	20160512	AU20110265344	20111220
DE102010055531 A1	20120628	DE201010055531	20101222
DE502011007451 D1	20150910	DE201150007451T	20111208
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EP2469142 A1	20120627	EP20110192545	20111208
EP2469142 B1	20150729	EP20110192545	20111208
HU028131 T2	20161228	HU20110192545T	20111208
US2012161438 AA	20120628	US20110333157	20111221
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Priority:

DE201010055531 20101222 EP20110192545 20111208

Probable Assignee: VIEGA TECHNOLOGY GMBH AND CO KG

Assignee(s): (std): FRANKE BERND ; MULLER ANDREAS ; RISCHEN CHRISTIAN ; VIEGA GMBH AND CO KG ; VIEGA TECH GMBH AND CO KG

Assignee(s): VIEGA TECHNOLOGY GMBH AND CO KG

Inventor(s): (std): MULLER ANDREAS ; RISCHEN CHRISTIAN ; MUELLER ANDREAS ; FRANKE BERND

Agent(s): GOLJA HAINES AND FRIEND; COHAUSZ AND FLORACK PATENT U RECHTSANWAELTE PARTNERSCHAFTSGESELLSCHAFT MBB; COHAUSZ AND FLORACK; WEBB LAW FIRM

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

Title: REFRIGERATION LINE SET FITTING AND METHOD OF USING THE SAME TO JOIN REFRIGERATION LINES TO EACH OTHER

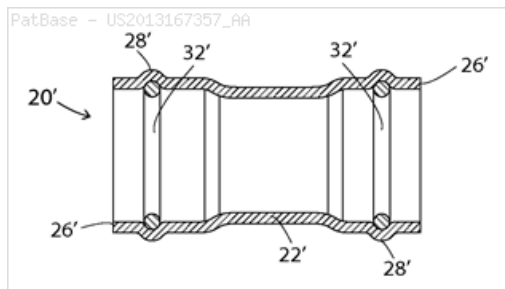
Abstract: A **crimp fitting** comprises a metal **tube** wall that forms both a cylindrical tube portion and an adjacent annular O-**ring** channel portion. The tube wall has a first wall thickness along the cylindrical tube portion and a second wall thickness along at least part of the O-**ring** channel portion. The second wall thickness is less than the first wall thickness. The cylindrical tube portion and O-**ring** channel are configured and adapted to encircle a cylindrical end portion of a tube when such end portion of the **tube** is inserted into the **fitting**.

Classifications:

International (IPC 8-9): B21D37/16 B21D39/04 F16L15/10 F16L13/14 F16L17/02 F16L21/03 F25B41/00 (Advanced/Invention)

CPC: B21D39/046 Y10T29/49 Y10T29/49906 Y10T29/49927 F16L21/03 F16L13/142 F16L17/02

US: 1/1 148/684 285/345 285/349 29/469.5 29/516 29/592



Family:

Publication number	Publication date	Application number	Application date
AU2012362443 AA	20130704	AU20120362443	20121227
AU2012362443 BB	20161103	AU20120362443	20121227
BR112014016012 A2	20170613	BR20141116012	20121227
BR112014016012 A8	20170704	BR20141116012	20121227
BR112014016012 A8	20170613	BR20141116012	20121227
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US9638361 BB	20170502	US20150836410	20150826
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Priority:

US20110580993P 20111228 US20120609039P 20120309 US20120714002 20121213
EP20120809565 20121227 WO2012US71723 20121227 US20150836410 20150826

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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: FITTING, SYSTEM COMPRISING SUCH A FITTING, AND SEALED CONNECTION WITH SUCH A FITTING

Abstract: Disclosed is a fitting to be sealingly connected to a tubular end (18), in particular of a **tube**, comprising an outer tubular **fitting** body (6) and an inner tubular fitting body (12), the outer fitting body (6) having an outer support section (8) which is made at least partially of plastic and which is to be inserted into the tubular end (18), the inner fitting body (12) having an inner support section (14) which is made at least partially of metal and which is to be inserted into the tubular end (18), the inner support section (14) being arranged at least partially within the outer support section (8), the inner peripheral surface (20) of the outer support section (8) and the outer peripheral surface (22) of the inner support section (14) being sealed off from each other in at least some regions (24a, 24b, 24c), and at least one cavity (28a, 28b) being formed between the inner peripheral surface (20) of the outer support section (8) and the outer peripheral surface (22) of the inner support section (14).

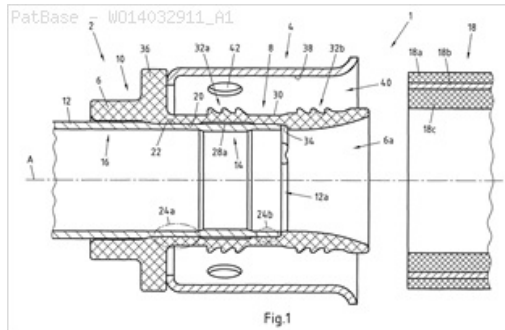
Classifications:

International (IPC 8-9): F16L F16L13/14 F16L19/065 F16L33/207

F16L37/138 F16L47/04 (Advanced/Invention);

F16L13/00 F16L19/00 F16L33/00 F16L37/00 (Core/Invention)

CPC: F16L13/141 F16L13/146 F16L19/065 F16L37/138 F16L33/2071



Family:

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DE201210108146 20120903 EP20120194193 20121126 WO2013EP66401 20130805
EP20130745416 20130805

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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 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