

1) Family number: 17701092 (DE9410418U1)

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Title: ZUGFESTE ROHRVERBINDUNG High-tensile tube connection (Machine translation)

Abstract: Source: DE9410418U1 [DE] (Claim 1) 1. Zugfeste Rohrverbindung zum Anschluss einer aus weichen Kunststoff wie Polyvinylchlorid, Polyethylen, Polypropylen od. dgl. bestehenden Rohrleitung an eine insbesondere metallische Muffe unter Vermittlung eines am Innendurchmesser mit reibschlussverhoehenden Mitteln versehenen Sicherungsring, der an einer Innenumfangsnut der Muffe einliegt und mit seiner Innenumfangsflaeche mindestens mittelbar am Mantel des Rohres angreift, wobei sich die im wesentlichen konischen Umfangs-Kontaktflaechen zwischen Sicherungsring und Muffennut zur Muendung der Muffe hin im Durchmesser verjuengen, dadurch gekennzeichnet, dass der Sicherungsring (12) als an einer Umfangsstelle geschlitzter Spreizklemmring ausgebildet ist, der hinsichtlich seiner Abmessungen (Aussen- und Innendurchmesser, Schlitzweite) so auf die Muffe (11) und das anzuschliessende Rohr (10) abgestimmt sind, dass seine Haltekraft im wesentlichen ausschliesslich von seiner elastischen Vorspannung gegen das Rohr (10) und von den axialen Zugkraefte an der Rohrverbindung bestimmt sind.

Machine translation: (Claim 1) 1 Tensile pipe connection for connecting an out further chemical plastics such as polyvinyl chloride, polyethylene, polypropylene or the like existing pipeline to a particular metal pipe coupling mediated by one on the inside diameter with reibschlussverhoehenden means bearing retaining ring, which rests on an inner circumferential groove of the sleeve and at least with his Innenumfangsflaeche indirectly on the jacket of the tube attacks, which are tapered substantially conical peripheral Kontaktflaechen between retaining ring and Muffennut to the mouth of the sleeve to the diameter, wherein the retaining ring (12) than at a peripheral location slotted Spreizklemmring is formed, the terms of its Dimensions (outer and inner diameter, slit width) onto the sleeve (11) and to closing tube (10) matched are that its holding force is essentially exclusively elastic of his bias against the tube (10) and of the axial tensile forces on the pipe connection are determined.

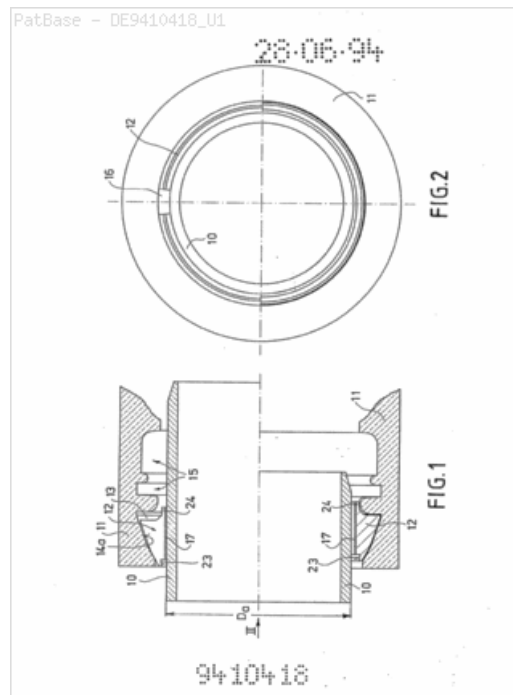
Classifications:

International (IPC 8-9): F16L37/088 F16L47/24 (Advanced/Invention); F16L37/00 F16L47/00 (Core/Invention)

International (IPC 1-7): F16L47/06

CPC: F16L37/0927 F16L47/24

European: F16L37/092 F16L47/24

**Family:**

Publication number	Publication date	Application number	Application date
DE9410418 U1	19941013	DE19940010418U	19940628

Priority:

DE19940010418U 19940628

Probable Assignee: RITZ REINERT GMBH

Assignee(s): (std): REINERT RITZ GMBH ; RITZ REINERT GMBH

Assignee(s): REINERT RITZ GMBH 48531 NORDHORN DE

2) Family number: 2107429 (DE3202367A1)

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Title: Plug-sleeve pipe connection

Abstract: In a plug-sleeve connection (40) for one or more pipes or pipe elements which can be inserted in a sealed manner into a sleeve body, an annular-groove-like chamber (10) for holding a retaining element is provided in the front region of the sleeve body (5). The retaining element (30), which is assembled from individual parts (31, 32, 33, 34, 35 and 36) which are constructed like segments, is retained in the chamber by an elastic retaining ring (15). Each part is supported by a suitably constructed head section (20) so that it can pivot on the outer circumferential surface (13) of the chamber and, on the side facing the pipe end surface, has a foot section (28) which is provided with a first cutting edge (27) and a second cutting edge (19) which is arranged at a distance therefrom. The inserted pipe is essentially retained by the first cutting edge (27) which encloses the pipe end (1) like a cutting ring and, when the internal pressure increases, is also retained by the second cutting edge (19), excessively deep cutting in of the first cutting edge being prevented by the engagement of the second cutting

edge.

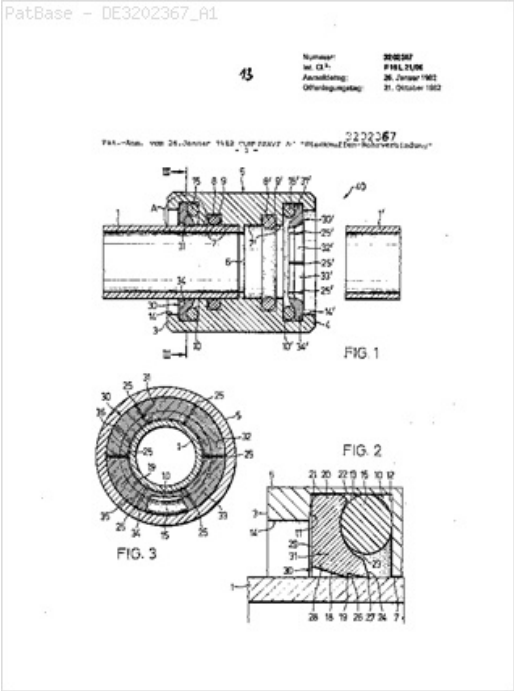
Classifications:

International (IPC 8-9): F16L37/084 (Advanced/Invention);
F16L37/00 (Core/Invention)

International (IPC 1-7): F16L21/02 F16L21/06 F16L21/08 F16L47/06

CPC: F16L37/0842

European: F16L37/084G



Family:

Publication number	Publication date	Application number	Application date
CH649145 A	19850430	CH19810000690	19810203
DE3202367 A1	19821021	DE19823202367	19820126
DE3202367 C2	19900927	DE19823202367	19820126

Priority:

CH19810000690 19810203

Probable Assignee:

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Assignee(s): (std):

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Inventor(s): (std):

SCHATTMAIER KURT

Inventor(s):

SCHATTMAIER KURT ZUERICH CH

3) Family number: 23138514 (DE10038492A1)

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Title: Pipe sleeve, e.g. for repairing pipes, fits over section of pipe or connects two pipes and has circumferential groove on inside at each end, into which sealing rings are fitted, locking rings fitting into grooves outside these

Abstract: The pipe sleeve (10) fits over a section of pipe (17) or connects two pipes. It has a circumferential groove (12, 13) on its inside at each end, into which sealing rings (16) are fitted. Locking rings fit into second, profiled grooves (14) positioned outside the sealing ring grooves.

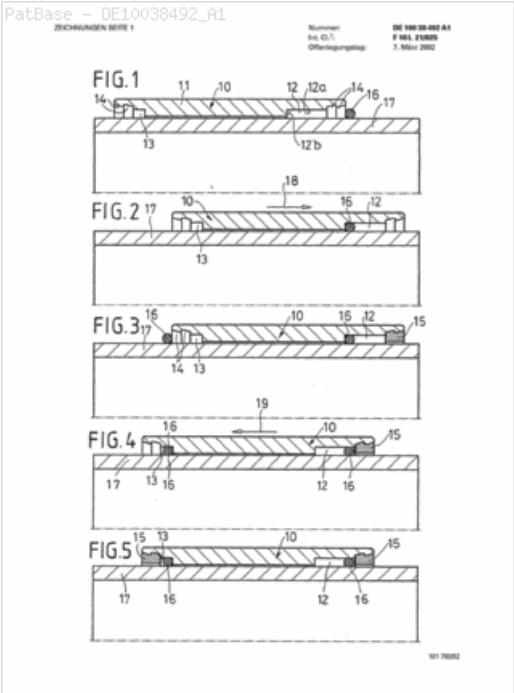
Classifications:

International (IPC 8-9): F16L21/025 (Advanced/Invention);
F16L21/02 (Core/Invention)

International (IPC 1-7): F16L21/025

CPC: F16L21/025

European: F16L21/025



Family:

Publication number	Publication date	Application number	Application date
DE10038492 A1	20020307	DE20001038492	20000808

Priority:

DE20001038492 20000808

Probable Assignee:

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Assignee(s): (std):

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Inventor(s): (std):

REINERT KARL ALBERT

4) Family number: 62066980 (US2017248259A)

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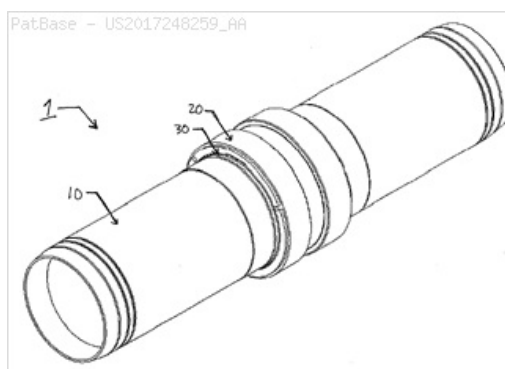
Title: CONNECTOR FOR PIPES

Abstract: A pipe connector for connecting pipes that includes an elongate tubular body having an outer diameter, a sleeve disposed over the elongate tubular body, and a first wire ring. The elongate tubular body has a groove formed on the outer diameter. The sleeve has a groove formed on an inner diameter that is spaced from a first end of the sleeve and is aligned with the groove of the elongate tubular member. The first wire ring is disposed within the groove of the elongate tubular body and within the groove of the sleeve such that the sleeve is coupled to the elongate tubular body by the first wire ring.

Classifications:**International (IPC 8-9):** E21B E21B17/02 F16L F16L21/00 F16L21/06

F16L21/08 F16L23/00 F16L23/028 F16L33/22 F16L37/088

F16L37/14 (Advanced/Invention)

CPC: F16L21/08**US:** 1/1 285/417**Family:**

Publication number	Publication date	Application number	Application date
AR102140 AA	20170208	AR2015P103157	20150930
AU2015324083 AA	20170420	AU20150324083	20150929
AU2015324083 BB	20191003	AU20150324083	20150929
AU2020200051 AA	20200130	AU20200200051	20200103
BR112017006628 A2	20180703	BR20171106628	20150929
CA2963094 AA	20170329	CA20152963094	20150929
CN107002917 A	20170801	CN201580065154	20150929
CN107002917 B	20190813	CN201580065154	20150929
CN110630839 A	20191231	CN201910740065	20150929
CO20170004254 A2	20170510	CO20170004254	20170427
DE602015044880 D1	20200123	DE201560044880T	20150929
DK3201509 T3	20200330	DK20150845615T	20150929
EA201790744 A1	20170929	EA20170090744	20150929
EP3201509 A1	20170809	EP20150845615	20150929
EP3201509 A4	20180725	EP20150845615	20150929
EP3201509 B1	20200101	EP20150845615	20150929
EP3575659 A1	20191204	EP20190157643	20150929
HK1235100 A1	20180302	HK20170108865	20170904
HK1238705 A1	20180504	HK20170112685	20171130
ID201803063 A	20180323	ID2017PID02502	20150929
MX2017004122 A1	20180221	MX20170004122	20150929
SG10201808916X A1	20181129	SG20181008916	20150929
SG10201811288R A1	20190130	SG20181011288	20150929
SG11201702590S A1	20170427	SG20171102590	20150929
TR202004552 T4	20200421	TR20200004552T	20150929
US2017248259 AA	20170831	US20150515838	20150929
WO16053949 A1	20160407	WO2015US52809	20150929

Priority:

US20140057683P 20140930

AU20150324083 20150929

CN201580065154 20150929

US20150515838 20150929

EP20150845615 20150929

WO2015US52809 20150929

AU20200200051 20200103

Probable Assignee: TRINITY BAY EQUIPMENT HOLDINGS LLC

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Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; CAROLINA MERCEDES DAZA MONTALVO; FUCHS PATENTANWAELTE PARTNERSCHAFT MBB; CHINA PATENT AGENT HK LTD; SPRUSON AND FERGUSON HONG KONG LTD; MAROLITA SETIATI; SPRUSON AND FERGUSON ASIA PTE LTD; ELISAVET YAKOVIDIS CINLEMEZ; GRIFFITH ARON T ET AL

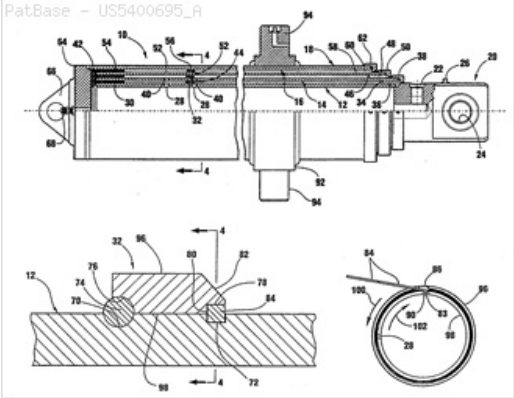
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW 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

5) Family number: 9393325 (US5400695A) PatBase

Title: Method and device for locking cylindrical members together

Abstract: The wire lock is provided for holding a stop ring on the outer surface of a cylinder. The stop ring includes a counterbore at one end thereof. The counterbore is positioned above an annular groove in the outer circumference of the cylinder. The wire lock is inserted into the registered counterbore and annular groove so as to prevent the stop ring from moving axially on the outer surface of the cylinder. The wire lock is accessible and visible from one axial end of the stop ring.

Classifications:
International (IPC 8-9): F15B15/14 F15B15/16 F16B3/04 F16L21/00 F16L37/04 (Advanced/Invention); F15B15/00 F16B3/00 (Core/Invention)
International (IPC 1-7): F01B29/00 F16L21/00 F16L37/04
CPC: F15B15/1447 F15B15/16 F16B3/04
European: F15B15/14E8 F15B15/16 F16B3/04
US: 92/128 92/51 92/53



Family:

Publication number	Publication date	Application number	Application date
CA2124019 AA	19950909	CA19942124019	19940520
US5400695 A	19950328	US19940207839	19940308

Priority: US19940207839 19940308 CA19942124019 19940520

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Agent(s): RIDOUT AND MAYBEE LLP