

Search query (23): pn=(WO2008141286 OR US6092274 OR US3017203 OR US6092274 OR US2008178957 OR US2010051131 OR US3237974 OR US4231596 OR US5853202 OR EP0245599 OR US1006671 OR DE19649269 OR ES2363194 OR Us5129686 OR Us4366841 OR Us5853202 OR Us4330142 OR Us5413147 OR Us3605817 OR US5037143 OR US2009308479 OR EP0955494 OR US2014203553 OR US6318763 OR US2012234425)

Results: 21

Search history

Search (PRESSURE AND HOSE AND WATER AND CARRYING AND SYSTEM) (Results 743)

1:

Search (HIGH AND PRESSURE AND HOSE AND FITTING) (Results 1631)

2:

Search (HIGH PRESSURE AND FLUID AND HOSE AND CONNECTOR) (Results 286)

3:

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4:

Search ((HIGH PRESSURE AND FLUID AND HOSE AND CONNECTOR) AND IPC=(F16L31/00)) (Results 2)

5:

Search ((HIGH AND PRESSURE AND HOSE AND FITTING) AND IPC=(F16L31/00)) (Results 6)

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Search (Pressure hose for a water carrying system) AND (IPC=(F16L31 / 00)) (Results 0)

7:

Search (HIGH AND PRESSURE AND HOSE AND FITTING AND TWO-PIECE AND METALLIC AND CLAMPING AND CONNECTOR) (Results 0)

8:

Search HIGH PRESSURE HOSE FITTING TWO-PIECE METALLIC CLAMPING CONNECTOR (Results 0)

9:

Search ("FLARE COUPLING" AND IPC=(F16L31/00)) (Results 0)

10:

Search ((FLARE AND COUPLING) AND IPC=(F16L31/00)) (Results 2)

11:

Search HIGH AND PRESSURE AND HOSE AND FITTING (Results 1631)

12:

Search PRESSURE AND HOSE AND WATER AND CARRYING AND SYSTEM (Results 743)

13:

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14:

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15:

Search fn=(43529633 or 13354787 or 32731476 or 43910381 or 17895035 or 16914183 or 6854921 or 4937304 or 29365281 or 10708897) (Results 10)

Search HOSE AND WATER AND PRESSURE (Results 20928)

17:

Search (HOSE AND WATER AND PRESSURE AND IPC=(F16L31/00)) (Results 11)

18:

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Search pn=(US2314236) (Results 1)

20:

Search fn=(21735373 or 3496834 or 39019893 or 31304550 or 32201406 or 32891193 or 52324640 or 22527452 or 22743177 or 948763 or 24050688 or 1386714 or 30421637 or 30421637 or 5079019 or 2785108 or 3295060 or 3496834 or 3093383 or 16155456 or 30459988 or 31304550 or 32201406 or 56349481 or 52324640 or 24050688) (Results 20)

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Search pn=(WO2008141286 OR US6092274 OR US3017203 OR US6092274 OR US2008178957 OR US2010051131 OR US3237974 OR US4231596 OR US5853202 OR EP0245599 OR US1006671 OR DE19649269 OR ES2363194 OR Us5129686 OR Us4366841 OR Us5853202 OR

1) Family number: 25425037 (US1006671A)

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Title: HOSE CONNECTION.

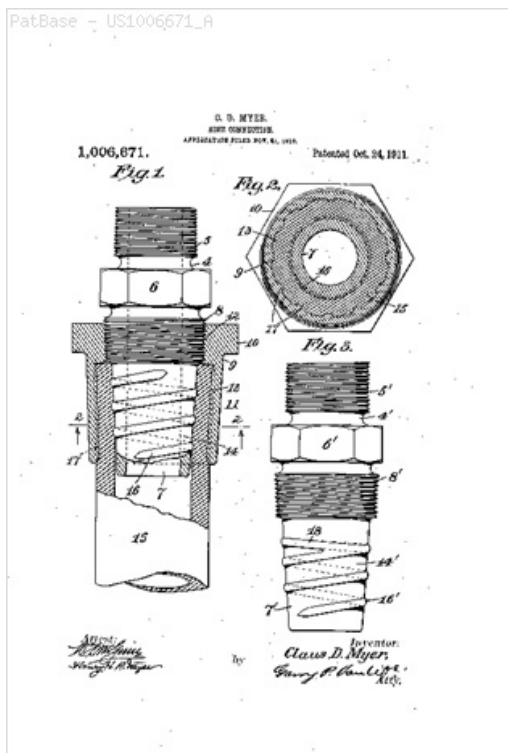
Classifications:

International (IPC 1-7): F16L33/24

CPC: F16L33/223

US: 285/247 285/259

PatBase - US1006671_A



Family:

Publication number	Publication date	Application number	Application date
US1006671 A	19111024	US19100593467	19101121

Priority:

US19100593467 19101121

Probable Assignee:

SIMPLEX HOSE CONNECTION CO

Assignee(s): (std):

SIMPLEX HOSE CONNECTION CO

Inventor(s): (std):

MYER CLAUS D

Inventor(s):

CLAUS D MYER

2) Family number: 22750860 (US3017203A)

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Title: CONNECTORS FOR PLASTIC HOSE

Abstract: Source: US3017203A 1. A coupling for mechanically locking a hose of synthetic resinous plastic material thereto wherein said plastic material has inherent cold flow properties and said coliplin, prevents cold flow of the hose relative thereto when the coupling is completely assembled on the hose, said coupling comprising a connector member, a hollow tail member extending from said connector member and in- serted into an end of the hose, and a ferrule encircling the end of the hose and clamping same on the tail member, said tail member having an inside diameter substantially equal to the normal inside diameter of the hose whereupon the end of the hose must be stretched to an increased diameter for insertion of the tail member therein, said tail member having at least one razor-sharp circumferential rid- e extending outwardly therefrom gripping th- stretched end of the hose, saidcircumferential ridge being triangular in cross-section with a forward side thereof facing the end of the hose being steeply sloped substantially normal to the longitudinal axis of said couplin- and with a rearward side thereof remote from the end of the hose being shallowly sloped, said circumferential ridge havin- a radial thickness equal to - substantially one-third the wall thickness of said hose, cylindrical sur- r) faces joinin-. the inner ends of said forward and rearward sides of said ridge, said cylindrical siirfaces having an axial width at least as great as the axial width of said circumferential ridge, means projecting outwardly from said cylindrical surfaces engaging the hose and preventin- relative rotation between the hos,- and tail member, said ferrule being clamped tightly over the end of the hose and having circumferential corrugations extending inwardly indentin- the plastic material of the hose and compactin, it i-ii intimate contact with the entire outer surface of said tail member and the entire inner surface of said ferrule, said inwardly extending corrugations being radially aligned with said cylindrical surfaces and said projecting means for ti-htly packing said hose thereagainst, and said tail member having an outwardly pro- jecting circumferential end ridge positioned at the end thereof opposite the connector member and beyond the free end of the ferrule for creating an annular bulge in the hose immediately beyond the end of the ferrule such that a radial bend will be formed in the hose at the end of the coupling when a lateral pull is applied to the hose relative to the coupling and thereby spacing the closest cylindrical surface with its projecting means inwardly from said end of said tail member.

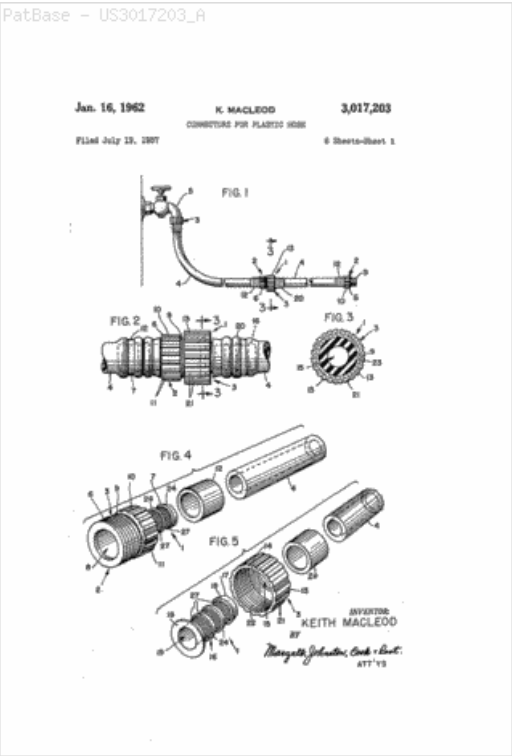
Classifications:

International (IPC 8-9): F16L31/00 F16L33/207 (Advanced/Invention);

F16L31/00 F16L33/20 (Core/Invention)

International (IPC 1-7): F16B2/06 F16L33/20

CPC: F16L33/2076 F16L31/00 Y10T29/49913 Y10T29/49927



Family:

Publication number	Publication date	Application number	Application date
US3017203 A	19620116	US19570673094	19570719

Priority:

US19570673094 19570719

Probable Assignee:	W D ALLEN MFG CO
Assignee(s): (std):	W D ALLEN MFG CO
Assignee(s):	W D ALLEN MANUFACTURING CO
Inventor(s): (std):	KEITH MACLEOD
Inventor(s):	MACLEOD KEITH

3) Family number: 21932265 (US3237974A)

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Title: HOSE FITTING

Abstract: Source: US3237974A (Claim 1) 1. A hose fitting for a hose of the type having a liner of substantially incompressible plastic material subject to cold flow and reinforced with a braided wire sheath, said fitting comprising when in assembled relationship: a tubular nipple having one end for insertion within the liner of said hose with an annular portion for accommodating a radially inwardly directed flare at the end of said liner, said portion including a plurality of axially spaced substantially cylindrical surfaces of progressively increasing diameter towards said one end of the nipple, adjacent cylindrical surfaces on said nipple being joined by substantially radial surfaces, and an opposite end extending therefrom; a body member in the form of a sleeve having one end telescoping over said opposite end of the nipple and adapted to extend over the end of said liner but under the end of said sheath, the interior of said sleeve being provided with a zone including a plurality of axially spaced substantially cylindrical surfaces of progressively increasing diameter towards said one end of the sleeve complementary to the substantially cylindrical surfaces of said annular portion of the nipple and arranged when the sleeve and nipple are assembled to flare radially inwardly and develop simultaneously a plurality of axially spaced annular regions of high squeeze upon the end of said liner, adjacent ones of said cylindrical surfaces on said sleeve being joined by radially inwardly directed frustoconical surfaces, means for securing said sleeve to said opposite end of the nipple, and coupling means disposed at the other end of said sleeve; and a socket member adapted to surround said sheath and having one end in telescoping engagement with said body member and another end overlying the said one end of the nipple, said socket member being arranged to cooperate with said nipple and said sleeve for securing the fitting to the end of the hose.

Classifications:

International (IPC 8-9): F16L33/207 (Advanced/Invention);
F16L33/20 (Core/Invention)
International (IPC 1-7): F16L33/22
CPC: F16L33/2073
European: F16L33/207B2
US: 285/222.4 285/256 285/259

Publication number	Publication date	Application number	Application date
US3237974 A	19660301	US19650433847	19650210

Probable Assignee:	RESISTOFLEX CORP
Assignee(s): (std)	RESISTOFLEX CORP
Inventor(s): (std)	PRESS IRVING D

International (IPC 8-9): A47L9/24 B29C47/00 B29C47/20
B29C49/00 F16L11/11 (Advanced/Invention)
International (IPC 1-7): A47L9/24 E02B11/00 F16L11/04 F16L11/12
F16L9/12
CPC: A47L9/24 B29C47/0023 B29C47/003 B29C47/0033 B29C47/20
B29C49/0021 B29L2023/003 F16L11/11
European: A47L9/24 B29C47/20 B29C49/00C2 F16L11/11
L29C47/00J10 L29C47/00J6 L29C47/00J9 L29L23/00D
US: 138/121 138/122

Family:

Publication number	Publication date	Application number	Application date
US3605817 A	19710920	US19690859639	19690922

Priority:

US19690859639 19690922

Probable Assignee: ACME HAMILTON MFG CORP**Assignee(s):** (std): ACME HAMILTON MFG CORP**Inventor(s):** (std): BAUMAN JOSEPH F ; CINI ADRIAN V ; KURTZ EDWARD JR**Inventor(s):** ADRIAN V CINI ; EDWARD KURTZ JR ; JOSEPH F BAUMAN**5) Family number: 30421637 (US4231596A)**

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Title: TUBING JOINT ASSEMBLY

Abstract: Source: US4231596A An inner sleeve is used in a tubing joint assembly with this inner sleeve having a lateral shoulder generally perpendicular to the axis of the sleeve and with this shoulder terminating in a sharp angled peripheral rib. A tube is telescoped over this inner sleeve. An outer sleeve may optionally be telescoped over the tube and the entire assembly inwardly compressed by two dies which have interdigitated teeth. This compresses the outer sleeve, where used, and compresses the tube onto the peripheral ribs of the inner sleeve. The interdigitated teeth on the dies assure complete compression all the way around the periphery of the tube onto the inner sleeve with a lateral shoulder being formed on the tube to act against the lateral shoulder on the inner sleeve and thus longitudinally retain together these parts. Also a fluid pressure tight seal is established primarily at the sharp angled peripheral rib and its junction with the inner wall of the tube.

Classifications:**International (IPC 8-9):** B21D39/04 F16L13/14

F16L33/20 (Advanced/Invention);

F16L33/20 (Advanced/Non-invention);

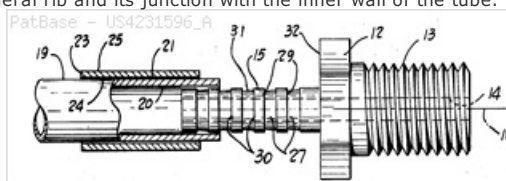
B21D39/04 F16L13/14 F16L33/20 (Core/Invention)

International (IPC 1-7): B21D39/00 B23P11/00 B23P11/02

F16L13/14 F16L21/00 F16L21/06 F16L33/20

CPC: Y10T29/49927 F16L13/141 B21D39/04 F16L13/147

Y10T29/49913 F16L13/143

European: B21D39/04 F16L13/14 F16L13/14B F16L13/14B6 F16L13/14F**US:** 285/382.2 285/397 285/398 285/422 29/508 29/516**Family:**

Publication number	Publication date	Application number	Application date
AU197944774 A1	19790920	AU19790044774	19790302
AU519367 B2	19811126	AU19790044774	19790302
CA1109100 A1	19810915	CA19790322316	19790226
DE2908935 A1	19790927	DE19792908935	19790307
DE2908935 C2	19840105	DE19792908935	19790307
FR2420074 A1	19791012	FR19790006755	19790316
FR2420074 B1	19840224	FR19790006755	19790316
GB2016624 A1	19790926	GB19790009170	19790315
GB2016624 B2	19820714	GB19790009170	19790315
JP54128024 A2	19791004	JP19790028831	19790314
SE7902384 A	19790918	SE19790002384	19790316
SE7902384 L	19790918	SE19790002384	19790316
US4231596 A	19801104	US19780887491	19780317
US4277879 A	19810714	US19790092459	19791108
US4281862 A	19810804	US19780948905	19781005
US4321743 A	19820330	US19800182718	19800829

Priority:

CA19790322316 19790226 US19780887491 19780317 US19780948905 19781005

US19790092459 19791108 US19800182718 19800829

Probable Assignee: UNIVERSAL TUBULAR SYSTEMS INC**Assignee(s):** (std): RALPH G RIDENOUR ; RIDENOUR R G ; RIDENOUR RALPH ; RIDENOUR RALPH G ; RIDENOUR RALPH GAYLORD**Assignee(s):** RIDENOUR RALPH GAYLORD MANSFIELD OHIO US ; RIDENOUR RG ; UNIVERSAL ENTERPRISES INC ; UNIVERSAL TUBULAR SYSTEMS INC**Inventor(s):** (std): RALPH GAYLORD RIDENOUR ; RARUFU GEIROODO RAIDENOORU ; RG RIDENOUR ; RIDENOUR R G ; RIDENOUR RALPH G ; RIDENOUR RALPH GAYLORD ; SOK**Inventor(s):** GAYLORD RIDENOUR RALPH ; R G RIDENOUR ; RIDENOUR RALPH GAYLORD MANSFIELD OHIO US**Agent(s):** SPRUSON AND FERGUSON; RIDOUT AND MAYBEE LLP**6) Family number: 8563232 (US4330142A)**

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Title: Formed hose couplings

Abstract: Source: US4330142A A deformable metal or plastic tube, the nipple end of which is provided with a plurality of circumferential ribs or grooves and a plurality of aligned longitudinal projections to provide a rough surface over which a resilient rubber or plastic end section of a flexible hose is placed and inwardly compressed against said roughened surface by a sleeve or band to form a fluid-tight seal between the hose and the tube. The grooves or ribs on the nipple portion of the tube are formed by a plurality of radially inwardly pressing dies surrounding the tube on a mandrel. These dies not only reduce the diameter of the nipple but also form aligned rows of projections on the outer surface of the tube by extrusion of the metal between the sides of adjacent dies. One or more and preferably two compressions of the dies are made in different angular positions of the tube. The nipple portion is defined by a previously outwardly pushed bead **flange** inwardly from the end of the tube. The roughened portion of the tube may also have an outwardly **flanged** open end. The flexible hose is

placed so that its end abuts against the bead. Preferably, a ferrule surrounding the hose is crimped radially inwardly to compress the hose around the roughened portion of the nipple, and this ferrule preferably also has an inwardly extending end **flange** which engages or seats against the bead to protect the end of the hose.

Classifications:

International (IPC 8-9): B21D17/02 B21D39/04

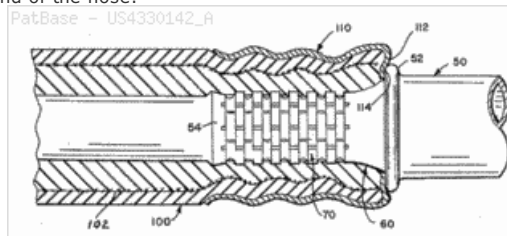
F16L33/207 (Advanced/Invention)

International (IPC 1-7): F16L33/20

CPC: F16L33/2076 B21C37/20 B21D17/02 B21D39/04

European: B21C37/20 B21D17/02 B21D39/04 F16L33/207B2D

US: 285/253 285/256 285/259



Family:

Publication number	Publication date	Application number	Application date
US4330142 A	19820518	US19800111118	19800110

Priority:

US19800111118 19800110

Probable Assignee: AUTOMOTIVE FLUID SYSTEMS INC

Assignee(s): (std): FAYETTE TUBULAR PRODUCTS

Assignee(s): FAYETTE TUBULAR TECHNOLOGY CORP ; GENERAL ELECTRIC CREDIT CORP ; AUTOMOTIVE FLUID SYSTEMS INC

Inventor(s): (std): PAINI WILLIAM R

7) Family number: 3782461 (US4366841A)

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Title: Compensating hose fitting

Abstract: Source: US4366841A This invention deals with a permanent hose fitting for use with reinforced hose including a flexible inner tube, a wire reinforcement which surrounds the inner tube and an outer cover, the hose being comprised primarily of rubber or rubber-like material. The fitting is of the steel socket and insert type wherein an annular recess is provided for receipt of the hose with cover thereon. Projections on the inner surface of the socket are of a configuration to pierce the cover upon crimping or swaging of the socket, to contact the reinforcement and to be deformed thereby into gripping engagement. Controlled bending of the shape-biased projections provides a device for accommodation of size and material differences and allows for compromise in fitting design for different sizes or styles of hose.

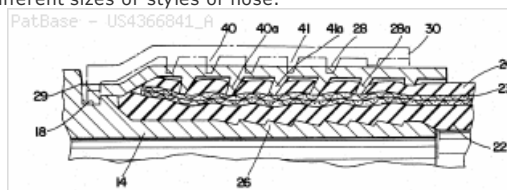
Classifications:

International (IPC 1-7): F16L11/08 F16L9/00

CPC: F16L33/2076

European: F16L33/207B2D

US: 138/109 285/222.2 285/256



Family:

Publication number	Publication date	Application number	Application date
US4366841 A	19830104	US19800145159	19800430

Priority:

US19800145159 19800430

Probable Assignee: PARKER HANNIFAN CUSTOMER SUPPORT INC

Assignee(s): (std): PARKER HANNIFIN CORP

Assignee(s): PARKER INTANGIBLES INC ; PARKER HANNIFAN CUSTOMER SUPPORT INC

Inventor(s): (std): CURRIE WILLIAM E ; KORANE KENNETH J

8) Family number: 4656307 (EP0245599A1)

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Title: Two-piece metallic clamping connector.

Abstract: The invention relates to a metallic clamping connector for plastic tubes and hoses. It has a connecting piece (1), which is designed as a tubular sleeve and has a plug-in region (11) which can be inserted in the end (21) of the tube. A sliding sleeve (3) is moreover provided which can move axially with respect to the tube axis and can be pushed over the end (21) of the tube with the inserted plug-in region (11), in a manner to produce the clamped connection. In this arrangement, the essential point of the invention is seen in that the overall plug-in region (11) has outwardly flattened ribs (12,13,14,15) running around the outer circumference and with slot-shaped depressions (16,17,18,19) arranged in each case between two adjacent ribs. The end (21) of the tube is expanded up to the circumference of the ribs (12,13,14,15) and the internal diameter of the sliding sleeve (3) is smaller than the external diameter of the expanded end (21) of the tube.

Classifications:

International (IPC 8-9): F16L33/20 F16L33/22

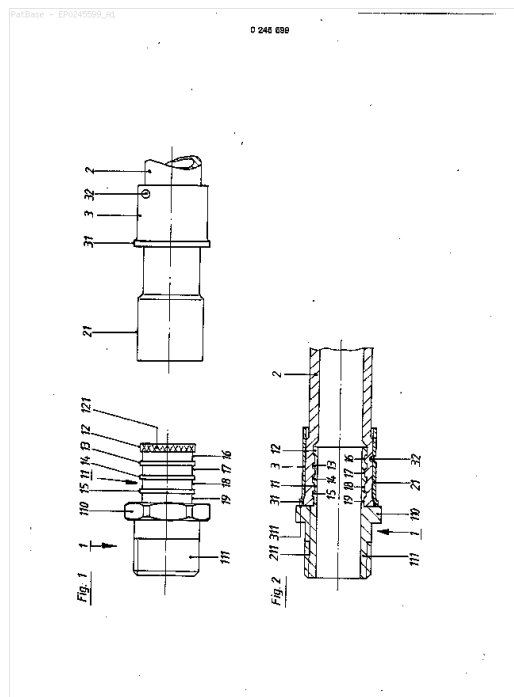
F16L47/00 (Advanced/Invention);

F16L33/20 F16L33/22 F16L47/00 (Core/Invention)

International (IPC 1-7): F16C37/00 F16L33/20 F16L33/22 F16L47/00

CPC: F16L33/225

European: F16L33/22H



Family:

Publication number	Publication date	Application number	Application date
AT64651 E	19910715	AT19870102959T	19870302
DE3608843 A1	19870924	DE19863608843	19860317
DE3608843 C2	19880519	DE19863608843	19860317
EP0245599 A1	19871119	EP19870102959	19870302
EP0245599 B1	19910619	EP19870102959	19870302
GR3002332 T3	19921230	GR19910401028T	19910718

Priority:

DE19863608843 19860317 EP19870102959 19870302 EP19870102959 19870302

Probable Assignee: REHAU AG AND CO 8673 REHAU DE

Assignee(s): (std): REHAU AG AND CO ; REHAU AND CO AG

Assignee(s): REHAU AG AND CO 8673 REHAU DE

Inventor(s): (std): REHAU CO AG ; REHAU AG CO

Inventor(s): REHAU AG AND CO ; VERZICHT DES ERFINDERS AUF NENNUNG

Designated states: AT BE CH ES FR GB GR IT LI NL

9) Family number: 12353783 (US5037143A)

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Title: HOSE CONSTRUCTION, COUPLING THEREFOR AND METHODS OF MAKING THE SAME

Abstract: Source: US5037143A A hose construction, coupling therefor and methods of making the same are provided, the hose construction comprising a tubular hose and a coupling secured to one end of the tubular hose, the inner peripheral surface of the tubular hose comprising an inner corrugated hose made of polymeric material and having inwardly convex projections with recesses therebetween and extending from one end of the tubular hose to the other end thereof, the coupling having an insert disposed in the one end of the tubular hose and being radially outwardly expanded into sealing relation with the inner corrugated hose, the insert having an outer peripheral surface defined by a plurality of outwardly convex projections with recesses therebetween, the projections of the insert being respectively received in the recesses of the inner hose and the projections of the inner hose being respectively received in the recesses of the insert whereby the interior of the tubular hose is substantially sealed to the interior of the coupling.

Classifications:

International (IPC 8-9): F16L25/00 F16L33/20

F16L33/213 (Advanced/Invention);

F16L33/20 (Advanced/Non-invention);

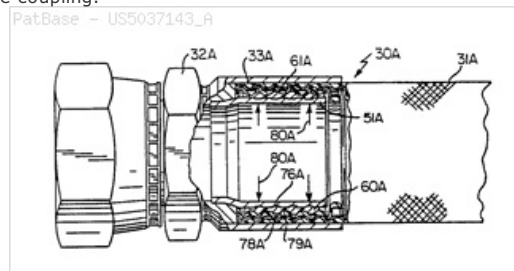
F16L25/00 F16L33/20 (Core/Invention)

International (IPC 1-7): F16L33/20 F16L33/213

CPC: Y10T29/49911 Y10T29/4994 F16L25/0036 F16L33/213

European: F16L25/00K F16L33/213

US: 138/121 285/254 285/258 285/259 29/507 29/523



Family:

Publication number	Publication date	Application number	Application date
AT117062 E	19950115	AT19900912848T	19900830
AU199062884 A1	19910418	AU19900062884	19900830
AU633971 B2	19930211	AU19900062884	19900830
CA2066255 AA	19920306	CA19902066255	19900830
CA2066255 C	19990615	CA19902066255	19900830
DE69016032 D1	19950223	DE19906016032	19900830

DE69016032 T2	19950622	DE19906016032T	19900830
EP0491737 A1	19920701	EP19900912848	19900830
EP0491737 A4	19920715	EP19900912848	19900830
EP0491737 B1	19950111	EP19900912848	19900830
JP5502085 T2	19930415	JP19900512311T	19900830
KR0173795 B1	19990218	KR19920070607	19920316
US5037143 A	19910806	US19890408161	19890915
US5129686 A	19920714	US19910693109	19910425
US5199752 A	19930406	US19920875865	19920429
US5297822 A	19940329	US19920988983	19921211
US5380050 A	19950110	US19930149585	19931109
US5486023 A	19960123	US19940337600	19941110
WO9104434 A1	19910404	WO1990US04945	19900830

Priority:

US19890408161 19890915 US19910693109 19910425 US19940337600 19941110
US19930149585 19931109 US19920988983 19921211 US19920875865 19920429
WO1990US04945 19900830 WO1990US04945 19900830

Probable Assignee: DAYCO PRODUCTS LLC

Assignee(s): (std): DAYCO PRODUCTS INC

Assignee(s): DAYCO PRODUCTS INC MIAMISBURG OHIO US ; DAYCO PRODUCTS LLC ; FOSTER RANDY C ; HOLDEN HOMER N ; JPMORGAN CHASE BANK AS ADMINISTRATIVE AGENT ; LUMINATOR HOLDING LP ; JPMORGAN CHASE BANK ADMINISTRATIVE AGENT AS ; SANDERS JOHN D

Inventor(s): (std): FOSTER RANDY ; FOSTER RANDY C ; HOLDEN HOLMER N ; HOLDEN HOMER ; HOLDEN HOMER N ; SANDERS JOHN ; SANDERS JOHN D

Inventor(s): HOMER N HOLDEN ; JOHN D SANDERS ; RANDY C FOSTER

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BORDEN LADNER GERVAIS LLP

Designated states: AT AU BE CA CH DE DK ES FR GB IT JP KR LI LU NL SE

10) Family number: 11904654 (US5413147A)

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Title: Flexible hose and fitting assembly

Abstract: Source: US5413147A A fluid conveying hose, especially a refrigerant conveying hose, that exhibits improved resistance to permeation of the refrigerant while still affording desirable flexibility, and a fitting for such hose and methods of making the hose and the union between the hose and fitting. Also provided is a coupling assembly for a hose and a service fitting that is a considerably less expensive alternative to existing assemblies equipped with relatively expensive shut-off valves or quick connect/disconnect couplers.

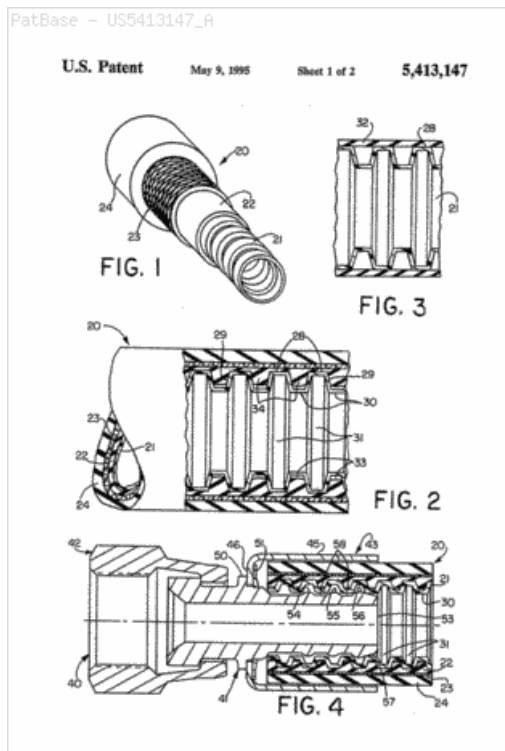
Classifications:

International (IPC 1-7): F16L47/00

CPC: F16L25/0036 F16L33/2076

European: F16L25/00K F16L33/207B2D

US: 138/109 138/121 138/122 138/125 138/126 285/258 285/259



Family:

Publication number	Publication date	Application number	Application date
US5413147 A	19950509	US19930055007	19930429

Priority:

US19930055007 19930429

Probable Assignee: PARKER INTANGIBLES LLC

Assignee(s): (std): PARKER HANNIFIN CORP

Assignee(s): PARKER INTANGIBLES INC ; PARKER INTANGIBLES LLC ; PARKER HANNIFAN CUSTOMER SUPPORT INC

Inventor(s): (std): DAVIS FREDERICK J ; MOREIRAS LUIS ; SHILAD ISSAC

Title: Connecting hose for water fittings

Abstract: Source: DE19649269A1 Pillar-type mixers and bath edge fittings have a connecting hose comprising an elastomeric inner hose (2) of a specific hardness. There is a rigid outer jacket (3), and there are supporting ribs (4) between the inner hose and the outer jacket. Spaces are formed between the ribs, inner hose and jacket to allow the elastic hose to oscillate between the ribs to damp the sound of flowing water. Preferably the inner hose has a Shore hardness of 30-60, particularly 40-50. The supporting ribs can intersect each other or form a braid, so that the spaces are defined on four sides. The outer jacket is preferably a high-grade steel braid or an elastomer with a reinforcing insert.

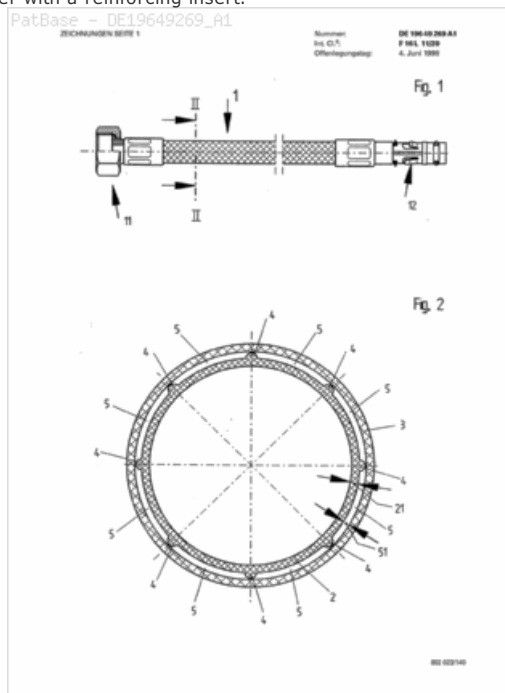
Classifications:

International (IPC 8-9): E03C1/02 F16L11/20 (Advanced/Invention);
E03C1/02 F16L11/00 (Core/Invention)

International (IPC 1-7): E03C1/04 F16L11/04 F16L11/15 F16L11/20

CPC: E03C1/021 E03C1/025 E03C2201/60 F16L11/20

European: E03C1/02B E03C1/02C F16L11/20 P03C201/60



Family:

Publication number	Publication date	Application number	Application date
DE19649269 A1	19980604	DE19961049269	19961128

Priority:

DE19961049269 19961128

Probable Assignee: GROHE ARMATUREN FRIEDRICH

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

Assignee(s): FRIEDRICH GROHE AG 58675 HEMER DE

Inventor(s): (std): BERG BURKHARD ; KOERFGEN HARALD

Inventor(s): KOERFGEN HARALD 58675 HEMER DE ; BERG BURKHARD 58708 MENDEN DE

Title: Hose end fitting assembly

Abstract: Source: US5853202A An end fitting assembly (10) for connecting a hose to an external device is disclosed. The end fitting assembly (10) includes a stem (11) adapted to be inserted into the inner channel (32) of a hose (30). The stem (11) includes an axial bore (13) adapted to convey a fluid therethrough. The stem (11) further includes a plurality of circumferential barbs (12), each of the barbs (12) including a plurality of lands (12a, 12b) at the outer surface thereof. One of the lands (12a) is disposed at an acute angle with respect to the axis of the bore (13) of the stem (11). A second one of the lands (12b) is disposed adjacent to the first land (12a) and is disposed at a smaller acute angle with respect to the axis of the bore (13) of the stem (11) than the angle of the first land (12a). The stem (11) further includes an additional barb (15) having a rotation resisting structure provided thereon to resist relative rotational movement between the stem (11) and a hose (30) into which the stem (11) is disposed. The end fitting assembly (10) also includes a connector (40) for connecting the end fitting assembly (10) to an external device.

Classifications:

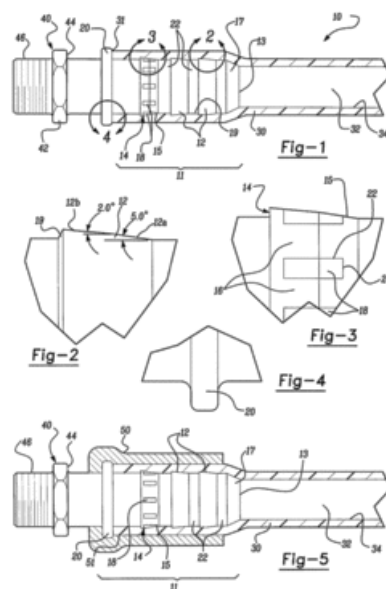
International (IPC 8-9): F16L33/30 (Advanced/Invention);
F16L33/30 (Core/Invention)

International (IPC 1-7): F16L33/00 F16L33/20

CPC: F16L33/30

European: F16L33/30

US: 285/256 285/259

**Family:**

Publication number	Publication date	Application number	Application date
US5853202 A	19981229	US19970877116	19970617

Priority:

US19970877116 19970617

Probable Assignee: KONGSBERG AUTOMOTIVE ASA**Assignee(s):** (std): TELEFLEX INC**Assignee(s):** KONGSBERG AUTOMOTIVE ASA ; KONGSBERG AUTOMOTIVE HOLDING ASA ; TECHNOLOGY HOLDING CO ; TECHNOLOGY HOLDING CO II**Inventor(s):** (std): LI TRENT KUANG CHUN ; MARTUCCI NORMAN S**13) Family number: 15430544 (US6092274A)**

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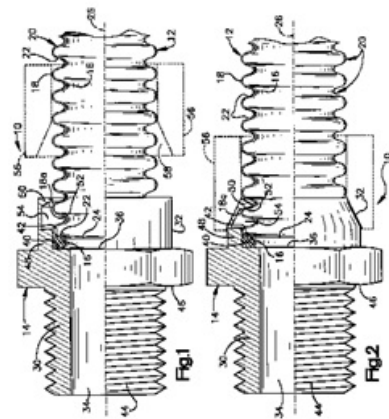
Title: METAL HOSE FITTING AND METHOD OF MAKING

Abstract: Source: US6092274A A metal hose comprises a metal tube having an annularly corrugated wall, a fitting body, an extension that projects from the fitting body, and a sealing member. The fitting body defines a sealing seat for the sealing member. The extension projects from the body about the tube and defines a corrugation positioner distal the fitting body. The extension is deformed to shift the corrugation positioner toward engagement with the tube and resiliently compress the tube corrugations between the positioner and the sealing member. The resiliently compressed corrugations urge the sealing member against the seat for sealing the juncture of the fitting and the tube. In one embodiment a reinforcing shroud surrounds the tube and extends into the fitting. The fitting secures the shroud in place. The corrugation positioner compresses the tube corrugations through the shroud so the shroud is clamped and secured in place by the positioner at a location spaced axially from its end within the fitting.

Classifications:**International (IPC 8-9):** B23P19/04 F16L11/15 F16L33/207 F16L33/26 (Advanced/Invention);

F16L33/20 F16L33/26 (Core/Invention)

International (IPC 1-7): B21D39/00 B23P19/04 F16L11/00 F16L11/15 F16L25/00 F16L25/00 F16L33/26**CPC:** Y10S285/903 F16L25/0036 F16L33/207 F16L33/26 Y10T29/49934**European:** F16L25/00K F16L33/207 F16L33/26**US:** 138/109 138/121 285/256 285/382 285/903 29/520

**Family:**

Publication number	Publication date	Application number	Application date
AT268447 E	20040615	AT19980120823T	19981103
CA2254689 AA	19990826	CA19982254689	19981119
DE69824273 D1	20040708	DE19986024273	19981103
DE69824273 T2	20050804	DE19986024273T	19981103
EP0939265 A2	19990901	EP19980120823	19981103
EP0939265 A3	20010425	EP19980120823	19981103
EP0939265 B1	20040602	EP19980120823	19981103
ES2222545 T3	20050201	ES19980120823T	19981103
US6092274 A	20000725	US19980031459	19980226
US6260584 BA	20010717	US20000523749	20000313

Priority:

CA19982254689 19981119 US19980031459 19980226 US20000523749 20000313

Probable Assignee: QUASAR SPA

Assignee(s): (std): 40 PROPERTIES MAN LTD ; 40 PROPERTIES MANAGEMENT LTD ; 40 PROPERTIES MANAGEMENT LTD A ; QUASAR SPA ; QUASAR S P A

Assignee(s): QUASAR S P A TURIN TORINO ; 40 PROPERTIES MANAGEMENT LTD A LIABILITY CO OF OHIO LTD ; FOTI SAM J

Inventor(s): (std): FOTI SAM J

Agent(s): MACRAE AND CO

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

14) Family number: 17888433 (EP0955494A2)

© PatBase

Title: CONDUIT CONNECTING SYSTEM

Abstract: The connecting elements having the push-in part(3) are constructed as adaptors(1) enabling a connection between pipe sections of different cross sectional sizes. On the inlet side of the adaptor the push-in part forms a passage with a cross section conforming to the largest pipe cross section occurring in the subject system, and on the outlet side forms a connector conforming to a cross section of the same or smaller size. The adaptor may be compression fitting adaptor with a compression connecting element, or a threaded adaptor with a male or female thread on the outlet side.

Classifications:

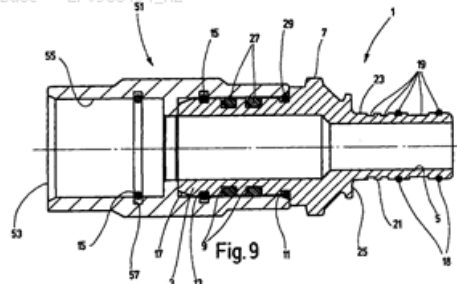
International (IPC 8-9): F16L37/088 (Advanced/Invention); F16L37/00 (Core/Invention)

International (IPC 1-7): F16L25/00 F16L37/08 F16L41/02

CPC: F16L37/088

European: F16L37/088

PatBase - EP0955494_R2

**Family:**

Publication number	Publication date	Application number	Application date
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DE19820501 A1	19991118	DE19981020501	19980507
EP0955494 A2	19991110	EP19990108040	19990423
EP0955494 A3	20000726	EP19990108040	19990423

Priority:

DE19981020501 19980507

Probable Assignee: STEFAN NAU GMBH AND CO KG

Assignee(s): (std): STEFAN NAU GMBH AND CO ; STEFAN NAU GMBH AND CO BEHAELTER ; STEFAN NAU GMBH AND CO KG

Inventor(s): (std): KAISER UWE ; WOERZ STEFAN ; WOERZ STEFAN DIPL ING ; WOERZ STEFFEN DIPL ING

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

15) Family number: 17786796 (US6318763B)

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Title: High-pressure fluid hose connector

Abstract: Source: US6318763B A high-pressure fluid hose connector capable of preventing scraping a hose during installation, has a connecting pipe having multiple teeth around the middle portion thereof and a locking sleeve having multiple notches defined thereon and corresponding to the teeth of the connecting pipe.

Classifications:

International (IPC 8-9): F16L19/02 F16L33/207 (Advanced/Invention);

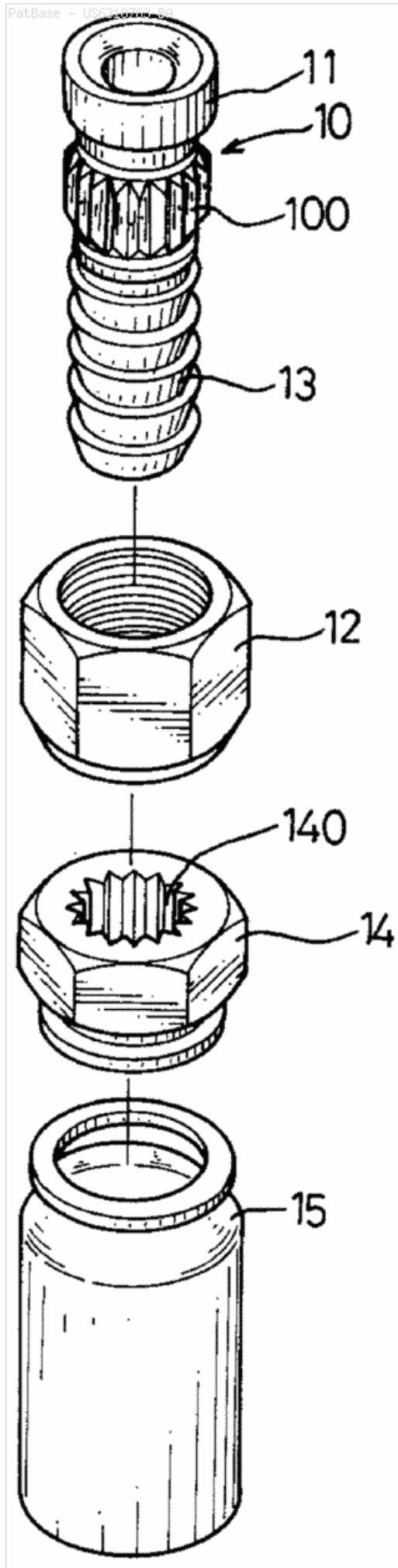
F16L19/02 (Core/Non-invention)

International (IPC 1-7): F16L19/02 F16L33/00

CPC: F16L33/2078

European: F16L33/207B4

US: 285/256



Family:

Publication number	Publication date	Application number	Application date
TW375230 Y	19991121	TW19990200495U	19990113
US6318763 BA	20011120	US19990457288	19991209

Priority:

TW19990200495U 19990113

Probable Assignee: HUANG HONG YUE

Assignee(s): (std): HUANG HONG YUE

Assignee(s): HUANG HONG YUETW ; HUANG HUNG YUEH

Inventor(s): (std): HUANG HONG YUE ; HUANG HUNG YUEH

16) Family number: 36002094 (US2009308479A)

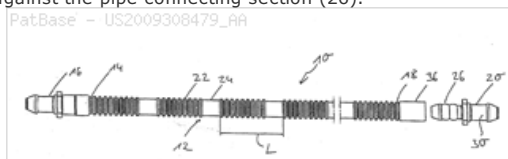
© PatBase

Title: FLUID DUCT, AND FLEXIBLE PIPE FOR A FLUID DUCT

Abstract: Source: US2009308479A The invention relates to a fluid duct (10), especially for use in motor vehicles to feed liquid in order to wipe windows or headlights of said motor vehicle. Said fluid duct (10) comprises a flexible pipe (12) with at least one corrugated pipe section (22) and at least one plain pipe section (24) that adjoins the corrugated pipe section (22), at least one pipe joint (16, 20) with a pipe connecting section (26) which is inserted into a plain pipe section (24), and a support sleeve (36) for each pipe joint (16, 20). The support sleeve (36) surrounds the plain pipe section (24) receiving the pipe connecting section (26) and presses the plain pipe section (24) against the pipe connecting section (26).

Classifications:

International (IPC 8-9): B60S1/48 F16L11/00 F16L11/11 F16L11/15 F16L25/00 F16L9/06 (Advanced/Invention);
B60S1/46 F16L11/00 F16L11/11 F16L25/00 F16L9/00 (Core/Invention)
CPC: F16L11/11 F16L11/15 F16L33/2071 Y10S285/903
European: F16L11/11 F16L11/15 F16L33/207B
US: 138/109 138/109S 138/118 138/121 138/121S 138/122 285/903



Family:

Publication number	Publication date	Application number	Application date
AT520916 E	20110915	AT20070724063T	20070405
DE202006005545 U1	20070816	DE200620005545U	20060405
DE502007007976 D1	20111020	DE200750007976T	20070405
EP2002162 A2	20081217	EP20070724063	20070405
EP2002162 B1	20110817	EP20070724063	20070405
ES2367873 T3	20111110	ES20070724063T	20070405
MX2008012777 A1	20090128	MX20080012777	20070405
PL2002162 T3	20120131	PL20070724063T	20070405
US2009308479 AA	20091217	US20070296036	20070405
US8230885 BB	20120731	US20070296036	20070405
WO07115800 A2	20071018	WO2007EP03122	20070405
WO07115800 A3	20080424	WO2007EP03122	20070405

Priority:

DE200620005545U 20060405 EP20070724063 20070405 WO2007EP03122 20070405

Probable Assignee: FRAENKISCHE ROHRWERKE GEB KIRCHNER GMBH AND CO KG

Assignee(s): (std): KIRCHNER FRAENK ROHR ; KRAUSS MANFRED ; SCHROETER SOEREN

Assignee(s): FRAENKISCHE ROHRWERKE GEB KIRCHNER GMBH AND CO KG ; FRAENKISCHE ROHRWERKE GEBR KIRCHNER GMBH AND CO KG ; FRANKISCHE ROHRWERKE GEB KIRCHNER GMBH AND CO KG ; FRANKISCHE ROHRWERKE GEBR KIRCHNER GMBH AND CO KG

Inventor(s): (std): KRAUSS MANFRED ; SCHROETER SOEREN

Inventor(s): SOEREN SCHROETER ; MANFRED KRAUSS

Agent(s): WEICKMANN AND WEICKMANN PATENTANWALTE RECHTSANWALT PARTMBB; HERZOG MARKUS ET AL; HERZOG MARKUS; GREENBLUM AND BERNSTEIN PLC

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 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 MA MC MD 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

17) Family number: 42066831 (US2008178957A)

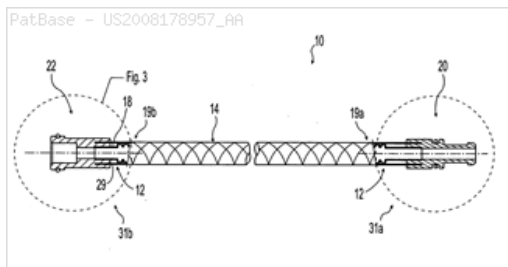
© PatBase

Title: TUBE ASSEMBLY

Abstract: Source: US2008178957A A corrugated tube assembly for use in connection with a plumbing fixture. The corrugated tube assembly includes a first tubular member and a second tubular member coaxially receiving the first tubular member. The first tubular member illustratively includes a cross-linked polymer, and the second tubular member illustratively includes a plurality of interconnected strands.

Classifications:

International (IPC 8-9): E03C1/042 E03C1/05 F16L11/00 F16L11/11 (Advanced/Invention);
E03C1/042 E03C1/05 F16L11/00 F16L11/11 (Core/Invention)
CPC: Y10T137/9464 F16L11/115 E03C1/025 F16L11/20 F16L25/0036
European: E03C1/02C F16L11/115 F16L11/20 F16L25/00K
US: 137/801 137/801S 138/109 138/109S 138/121 138/123 138/123S 138/137 138/137S 4/676 4/676S 4/678 4/678S



Family:

Publication number	Publication date	Application number	Application date
US2008178957 AA	20080731	US20070700640	20070131
US2009126820 AA	20090521	US20090360052	20090126
WO08094248 A1	20080807	WO2007US26081	20071220

Priority:

US20070700640 20070131 US20090360052 20090126

Probable Assignee: MASCO OF INDIANA CORP

Assignee(s): (std): MASCO CORP ; PINETTE THOMAS C ; THOMAS KURT JUDSON

Assignee(s): MASCO OF INDIANA CORP ; MERCURY PLASTICS INC

Inventor(s): (std): PINETTE THOMAS C ; THOMAS KURT JUDSON

Agent(s): BAKER AND DANIELS LLP; DELTA FAUCET CO C O MASCO LEON E REDMAN ESQ CORP; YERKESON DOUGLAS A

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 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

18) Family number: 42521219 (US2008290659A)

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Title: HIGH PRESSURE HOSE WITH TWO-PART COMPOSITE CONNECTOR FITTINGS

Abstract: Source: US2008290659A A coupling fitting for high pressure hose is provided. The coupling fitting includes a stem portion made of metallic material for connection to the high pressure hose. A coupling head made of a non-metallic material is connected to an end of the stem portion. The coupling head is configured for connection with a complementary fitting.

Classifications:

International (IPC 8-9): B05B15/00 F16L13/14

F16L33/04 (Advanced/Invention);

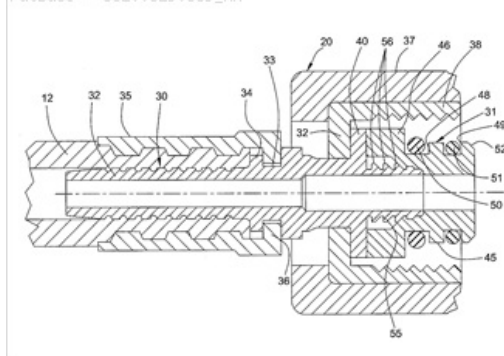
B05B15/00 F16L13/14 F16L33/02 (Core/Invention)

CPC: F16L35/005

European: F16L35/00B

US: 285/382.1

PatBase - US2008290659_AA

**Family:**

Publication number	Publication date	Application number	Application date
US2008290659 AA	20081127	US20080119007	20080512
WO08141286 A1	20081120	WO2008US63437	20080512

Priority:

US20070928863P 20070511 US20080041954P 20080403 US20080119007 20080512

Probable Assignee: FNA IP HOLDINGS INC

Assignee(s): (std): ALEXANDER GUS ; FAIP NORTH AMERICA INC ; PIANETTO JOHN ; MCCARTHY MORGAN

Assignee(s): FNA IP HOLDINGS INC ; HARRIS NA

Inventor(s): (std): ALEXANDER GUS ; MCCARTHY MORGAN ; PIANETTO JOHN

Agent(s): LEYDIG VOIT AND MAYER LTD; BAYS GREGORY C 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 LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR 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

19) Family number: 43910381 (US2010051131A)

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Title: PRESSURE HOSE FOR A WATER CARRYING SYSTEM

Abstract: Source: US2010051131A A functional pressure hose for a water-carrying system, particularly for connecting movable sanitary fittings or for connecting parts of the water-carrying system with one another, has an inner hose made of plastic and an outer jacket made of a braided material. At least one hose end is provided with a connector piece having a tubular connector, onto which the hose end is pressed. The inner hose is formed by a corrugated hose, and the tubular connector has circumferential ring beads that are adapted to the inner contour of the corrugated hose. At least some of the ring beads are provided with notches that run axially. The hose demonstrates great flexibility while maintaining the required pressure strength, but at the same time guarantees great bending protection.

Classifications:

International (IPC 8-9): F16L11/00 F16L11/02 F16L11/04 F16L11/08

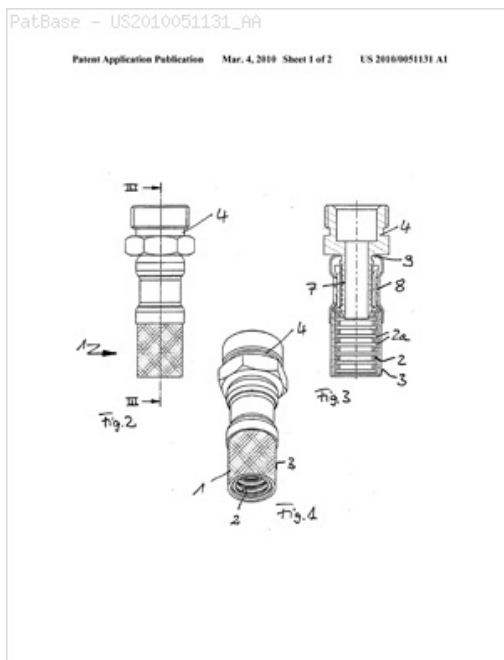
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F16L37/00 F16L9/00 (Advanced/Invention);

F16L11/00 F16L11/04 F16L11/08 F16L11/11

F16L15/00 (Core/Invention)

CPC: E03C1/025 F16L33/2073 F16L11/115 F16L25/0036
European: E03C1/02B F16L11/115 F16L25/00K F16L33/207B2
US: 138/109 138/109S 138/121 138/122 138/125 138/125S 285/242 285/256 285/382



Family:

Publication number	Publication date	Application number	Application date
AT502243 E	20110415	AT20090010632T	20090819
AU2009212809 AA	20100318	AU20090212809	20090826
AU2009212809 BB	20141016	AU20090212809	20090826
CN101660637 A	20100303	CN200910166681	20090826
CN101660637 B	20131002	CN200910166681	20090826
DE102008039991 B3	20091029	DE200810039991	20080827
DE202009011229 U1	20091112	DE200920011229U	20090818
DE502009000452 D1	20110428	DE200950000452T	20090819
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EP2159465 A2	20100303	EP20090010632	20090819
EP2159465 A3	20100428	EP20090010632	20090819
EP2159465 B1	20110316	EP20090010632	20090819
EP2159465 B2	20140903	EP20090010632	20090819
EP2159465 B8	20110525	EP20090010632	20090819
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US7849884 C1	20140325	US20090583788	20090826

Priority:

DE200810039991 20080827

Probable Assignee: KOTTMANN TECHNOLOGY GMBH

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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 MT NL NO PL PT RO RS SE SI SK SM TR

20) Family number: 51932372 (US2012234425A)

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Title: EXPANDABLE HOSE ASSEMBLY

Abstract: Source: US2012234425A A hose which automatically expands longitudinally and automatically expands laterally upon the application of a fluid pressure is disclosed. The hose can automatically expand longitudinally up to six times its unexpanded or contracted length. Upon release of the fluid pressure within the hose, the hose will automatically contract to a contracted condition. The hose includes an inner tube made from an elastic material and an outer tube made from a non-elastic material. The inner tube is positioned concentrically within the outer tube in both a contracted condition and an expanded condition. The outer tube is secured to the inner tube only at a first end of the inner and outer tubes and at a second end of the inner and outer tubes. The outer tube moves laterally and longitudinally with respect to the inner tube when the tubes are transitioning between a contracted condition and an expanded condition.

Classifications:

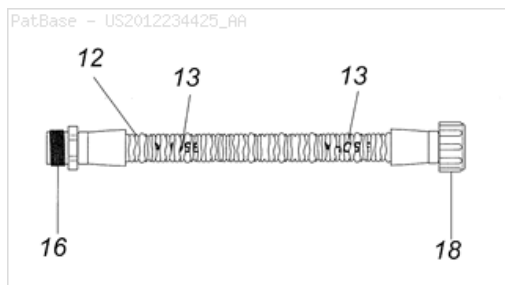
International (IPC 8-9): B23K3/06 B65H75/34 F16L11/00 F16L11/02 F16L11/04 F16L11/10 F16L11/12 F16L11/20 F16L11/22 F16L19/02 F16L29/02 F16L3/10 F16L31/00 F16L33/01 F16L33/22 F16L35/00 F16L39/04 F16L57/00 (Advanced/Invention); F16L11/00 F16L11/12 F16L33/00 F16L35/00 (Core/Invention); F16L (Subclass/Invention)

CPC: F16L11/04 F16L33/224 F16L11/20 F16L33/01 F16L35/00 F16L2201/60 F16L29/02 F16L11/10 F16L11/00 Y10T137/0318

F16L11/12

European: F16L11/12 F16L11/20 R16L201/60

US: 1/1 137/1 138/109 138/118 138/119 138/119 138/137 138/40 138/46 15/314 239/195 239/281 285/123.1 285/249 285/255



Family:

Publication number	Publication date	Application number	Application date
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Priority:

CA20122779882 20120403	CA20122810884 20120403	EP20120275110 20120724
CA20132779882 20130411	JP20130015356 20120403	JP20130542266 20120403
US20110289447 20111104	US20120488515 20120605	PH20120000223 20120802
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US20140301825 20140611	JP20130542266T 20120403	WO2012US31952 20120403
US20160055095 20160226		

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Assignee(s): LANZHENTIAN CO ; BLUE GENTIAN LLC PALM BEACH GARDENS

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Inventor(s): BERARDI MICHAEL JUPITER

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; MOFFAT AND CO; BETTEN AND RESCH PATENT U RECHTSANWAELTE PARTGMBB; WILSON GUNN; CARPINTERO MARIO; MURASE KAZUMI; OFFICE OF BAGAY VILLAMOR AND FABIOSA; MCHALE AND SLAVIN PA; MICHALOS PETER C; SLAVIN MICHAEL A

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

21) Family number: 53310677 (US2014203553A)

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Title: CONNECTOR ASSEMBLY FOR LIQUID MEDIA PIPES

Abstract: Source: US2014203553A A connector assembly for liquid media pipes, particularly for joining fittings and/or parts of systems for transporting domestic liquid media or the like, comprising a corrugated pipe and at least one tubular head with a central through-hole, wherein the tubular head has a concentric tubular extension with the central through-hole, which is insertable into the inner contour of at least one of the ends of the corrugated pipe, said extension provided with a number of circumferential annular shoulders on its outer contour that are equipped to fit into the inner contour of the corrugated pipe, and the tubular extension having at least one knurled section on its outer surface that is in contact with the inner contour of the corrugated pipe in which said tubular extension is inserted.

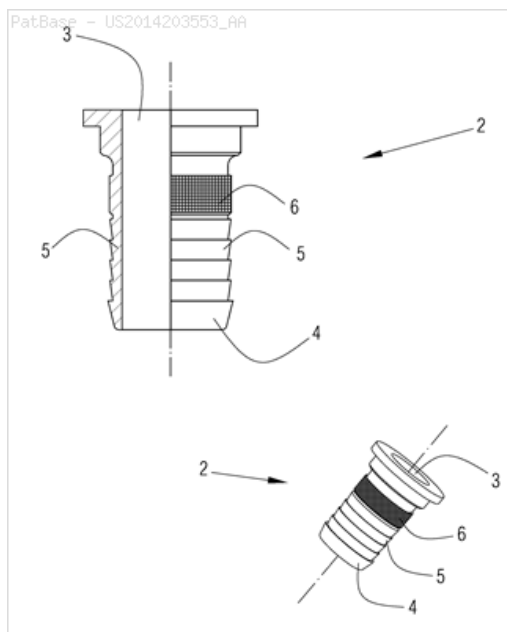
Classifications:

International (IPC 8-9): F16L11/15 F16L25/00 F16L37/00

F16L37/02 (Advanced/Invention)

CPC: F16L37/00 F16L37/02 F16L25/0036 F16L33/2073

US: 285/354



Family:

Publication number	Publication date	Application number	Application date
ES2399296 AA	20130327	ES20130030066	20130122
ES2399296 BA	20131011	ES20130030066	20130122
US2014203553 AA	20140724	US20140156627	20140116

Priority:

ES20130030066 20130122

Probable Assignee: TUCAI SA

Assignee(s): (std): TUCAI SA

Assignee(s): TUCAI S A

Inventor(s): (std): GRANADOS NIUBO DANIEL ; NIUBO DANIEL GRANADOS

Inventor(s): DANIEL GRANADOS NIUBO

Agent(s): ISERN JORGE