Search history

Search 1: tac=((cable or wire) and (seal* or lock*)) and ft=(body and (shell or case or cover) and ramp and (wheel or roller)) (Results 1135)

Search 2: (1) and ft=((spring or bias*) and (passage or channel)) (Results 664)

Search 3: ta=(cable and (seal* or lock*)) and ic=F16G and ft=(ramp and (spring* or bias*)) (Results 24)

Search 4: ta=(cable and (seal* or lock*)) and ic=F16G and ft=((passage or channel) and (spring* or bias*)) (Results 202)

Search 5: ta=(cable and (seal* or lock*)) and ic=F16G and ft=((passage or channel) and (spring* or bias*) and (wheel or roller)) (Results 51)

Search 6: FT=((cable or wire) and (lock* or seal*) and rib* and (roller or wheel) and spring) and IC=F16G (Results 96)

Search 7: (1) and IC=F16G (Results 11)

Search 8: FT=((cable or wire) and (lock* or seal* or grip*) and (rib* or groove*) and (roller or wheel) and (spring or bias) and ramp) and IC=F16G (Results 22)

- session log created:01 December 2017 03:09:41
- Update information:

PatBase Coverage at Update 2017 Week 47 (Year 2017 Week 47)

PatBase Coverage includes 100+ million documents from over 100 patent–issuing authorities and includes patent applications, granted patents, utility models and designs â€“ detailed in the below coverage listings.

Major countries

Publishing body	Document type	Bibliographic publication date		Full–Text publication date	
		Earliest	Latest	Earliest	Latest
CN China	Patent Applications	19850910	20171124	19850910	20171124
	Patents	19930106	20171124	19930106	20171124
	Utility Model Applications	19850409	19921230	19850409	19921230
	Utility Models	19930106	20171124	19930106	20171124
	Designs	19850910	20171124	19850910	20150819
DE Germany	Patent Applications	19211221	20171123	19650317	20171123
	Patents	18770101	20171123	19200113	20171123
	Utility Models	19280626	20171123	19610831	20171123
	EP/WO Patents	19871217	20140410		
EP European Patent Office	Patent Applications	19781220	20171122	19781220	20171122
	Patents	19800109	20171122	19800109	20171122
FR France	Patent Applications	19690307	20171124	19810102	20171103
	Patents	18550227	20171124	19600502	20171124
	Utility Model Applications	19720107	20171124	19800104	20171103

	Utility Models	19730112	20171124	19690802	20171124
GB United Kingdom	Unpublished Patent Applications	19830209	20171108		
	Patent Applications	19790104	20171122	19790104	20171101
	Patents	17820704	20171122	19020911	19811216
JP Japan	Patent Applications	19710116	20171124	19930108	20171116
	Patents	19281026	20171108	19960529	20171108
	Utility Model Applications	19710723	20060209	19990817	20031107
	Utility Models	19640805	19960329		
	Registered Utility Models	19940726	20171109	19940726	20101216
	Designs	20141110	20171127		
KR Republic of Korea	Patent Applications	19781209	20171124	19801010	20171124
	Patents	19700820	20171124	19770628	20171124
	Utility Model Applications	19781127	20171124	19940730	20171124
	Utility Models	19780110	20171124	19970104	20171124
US United States of America	Patent Applications	20010315	20171123	20010315	20171123
	Patents	18360101	20171121	18560617	20171121
	Designs	18650912	20171121	19770719	20171121
WO World Intellectual Property Organization (WIPO)	Patent Applications	19781019	20171123	19781019	20171123
	Designs	20151023	20171124	20151023	20171124

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- **search:** SS1 tac=((cable or wire) and (seal* or lock*)) and ft=(body and (shell or case or cover) and ramp and (wheel or roller)) (Results 1135)
- **search:** SS2 (1) and ft=((spring or bias*) and (passage or channel)) (Results 664)
- List: SS2 1–50 ((1) and ft=((spring or bias*) and (passage or channel))) (Results 664)

0) US2015130256A – ROLLING FRICTION OR SUSPENSION FRICTION IMPACT ...

1) Family number: 51194401 (US2015130256A)

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Title: ROLLING FRICTION OR SUSPENSION FRICTION IMPACT MINING METHOD AND WEAR–RESISTANT IMPACT MINING MACHINE USING SAID METHOD

Priority:

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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 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

International class (IPC 8–9): E02F3/18 E02F3/22 E02F3/24 E02F3/28 E02F3/36 E02F3/38 E02F3/39 E02F3/96 E02F5/08 E02F5/30 E02F9/20 E21B E21B1/02 E21B1/14 E21B10/36 E21C E21C25/00 E21C25/02 E21C25/04 E21C25/08 E21C27/00 E21C27/01 E21C27/02 E21C27/12 E21C27/14 E21C27/20 E21C27/24 E21C27/28 E21C27/30 E21C27/46 E21C29/22 E21C31/00 E21C31/02 E21C31/04 E21C31/08 E21C31/10 E21C31/12 E21C35/00 E21C35/02 E21C35/04 E21C35/08 E21C35/18 E21C35/183 E21C35/19 E21C35/193 E21C35/197 E21C35/20 E21C35/22 E21C37/00 E21C47/06 E21D9/10 E21D9/12 E21F5/04 F02B65/00 F02B75/00 F02B75/40 F02F1/00 F02F1/18 F02F11/00 F02F3/00 F02F5/00 F03C1/28 F03C1/32 F04B17/04 F04B39/00 F04B39/12 F04B53/00 F04B53/14 F04B53/16 F15B15/14 F15B15/20 F16C19/54 F16C29/04 F16C3/18 F16C32/04 F16C32/06 F16C33/30 F16C33/32 F16C33/34 F16C33/38 F16C33/46 F16C33/58 F16C33/78 F16C7/02 F16F15/04 F16H1/04 F16J1/00 F16J1/08 F16J10/02 F16J15/16 F16J15/32 F16J15/3276 F16J15/44 F16J15/56 F16N1/00 (Advanced/Invention);
E21C27/12 E21C27/14 E21C31/10 (Core/Invention);

E21C (Subclass/Invention)

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Abstract:
Source: US2015130256A A rolling friction or suspension friction impact mining method and a wear−resistant impact mining machine using said method. The mining machine comprises a reciprocating impact part (3). The reciprocating impact part comprises an impact drive device (4), a rolling reciprocating device, and an impact head (6). The rolling reciprocating device comprises a rubbing body (38), a rubbing body support (39), an impact guiding element (5.1), and a position−limiting mechanism. The rubbing body (5.3) are disposed between the robbing body support (39) and the impact guiding element (5.1), and inside of the position−limiting mechanism to form rolling guiding. The impact drive device is disposed with a damage−prevention mechanism, a rotary power buffer device, and a structural buffer device, such that the impact head reciprocatingly move and have rolling or suspending friction under the support of the impact guiding element, thereby preventing the damage−prevention force to damage a power drive device and a rolling channel guiding device, and preventing the impact vibration caused by the reciprocating impact part to affect the machine body and other parts. The overall stability is therefore enhanced, and the service life is extended.

0) US2006226095A – PRODUCT MANAGEMENT DISPLAY SYSTEM WITH TRACKLES...

2) Family number: 33473620 (US2006226095A) © PatBase

Title: PRODUCT MANAGEMENT DISPLAY SYSTEM WITH TRACKLESS PUSHER MECHANISM

Priority:

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Probable Assignee: RTC IND INC

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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 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

International class (IPC 8–9): A47B43/00 A47B45/00 A47B47/00 A47B57/00 A47B57/58 A47B65/00 A47B7/28 A47B73/00 A47B87/02 A47F1/00 A47F1/04 A47F1/12 A47F1/125 A47F1/126 A47F3/02 A47F3/04 A47F3/08 A47F3/14 A47F5/00 A47F5/005 A47F5/08 A47F7/00 A47F7/04 A47F7/08 A47F7/12 A47F7/14 A47F7/28 A47G29/087 B42F7/12 B65D25/20 E05B73/00 G09F23/00 G09F3/20 (Advanced/Invention);
A47B57/58 A47B87/02 A47F1/04 A47F1/12 A47F7/28 B42F7/12 (Advanced/Non–invention);
A47F1/00 A47F3/00 A47F5/00 A47F7/00 B65D25/20 (Core/Invention);
A47F (Subclass/Invention)

International class (IPC 1–7): A47F1/00 A47F1/00

CPC: A47F5/0869 G09F3/204 A47F5/00 A47B57/586 A47B65/15 A47B57/583 A47B73/00 A47F1/00 A47B73/006 A47B87/0223 A47B87/0269 A47F3/02 A47F3/14 A47F5/0068 A47F7/281 A47F5/0093 B42F7/12 Y10T29/49863 A47B45/00 A47F7/144 A47F3/0426 A47F3/08 A47F7/0042 A47B87/0246 A47F5/0025 A47B87/0261 A47F7/0007 A47F1/12 A47F5/0081 A47F7/285 A47B57/581 A47B57/588 A47B57/58 A47F1/125 A47F7/28 A47F7/283 A47F7/0014 A47F5/005 A47F1/04 A47B57/585 A47F1/126 Y10T29/49826

European class: A47F1/12D1

US class: 1/1 211/119.003 211/126.1 211/126.12 211/126.2 211/126.200S 211/133.6 211/175 211/184 211/186 211/194 211/4 211/43 211/49.1 211/59.2 211/59.3 211/59.300P 211/59.4 211/74 29/428 29/434 29/446 40/324 414/800 D6/515

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Abstract:
Source: US2006226095A A product management display system for merchandising product on a shelf includes using a trackless pusher mechanism that travels along a surface on which product is placed. The pusher mechanism of the invention also includes a pusher paddle and a floor that extends forward of the pusher paddle. A flat coiled spring or other biasing element may be operatively connected behind the pusher paddle and extend across the floor of the pusher mechanism and to the front of the shelf. In use, the product to be merchandised may be placed on the coiled spring and on the floor of the pusher mechanism. With this configuration, the pusher paddle is prevented from tipping or bending backwards during operation. The invention may be used with the merchandising of product on horizontal or non−inclined shelves or surfaces, as well as with gravity−fed systems, or systems that use gravity as a mechanism to urge product toward the front of the shelf.

0) US2016009169A – ELECTRICALLY MOTORIZED WHEEL

3) Family number: 60549968 (US2016009169A) © PatBase

Title: ELECTRICALLY MOTORIZED WHEEL

Priority:

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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 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

International class (IPC 8–9): A61B5/00 A61B5/11 A61G5/04 A63B21/005 A63B21/22 A63B22/06 A63B24/00 B60B1/02 B60B1/04 B60B27/00 B60B27/04 B60B30/00 B60B35/00 B60B35/12 B60B35/16 B60C5/00 B60C9/00 B60K7/00 B60L11/00 B60L11/18 B60L15/20 B60L3/00 B60L3/12 B60L7/00 B60L7/12 B60L7/14 B60L7/24 B60L9/00 B60Q5/00 B60Q9/00 B60R16/02 B60R25/04 B60R25/10 B60R25/20 B60W50/08 B61L25/02 B62B3/00 B62B5/00 B62M25/08 B62M6/45 B62M6/60 B62M6/80 B62M6/90 E05B49/00 E05B81/54 G01C21/36 G05D1/00 G05D1/02 G06F9/445 G06Q50/10 G06Q50/30 G07C5/00 G07C5/02 G07C5/08 G07C9/00 G08G1/00 G08G1/01 G08G1/052 G08G1/123 G08G1/127 G08G1/13 H02J7/00 H02K11/00 H02K7/00 H02P29/00 H02P29/20 H02P3/06 H02P6/08 H04L29/08 H04M1/725 H04W4/00 (Advanced/Invention); B60W50/00 E05B47/00 G01C21/36 G08G1/16 (Advanced/Non–invention)

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US class: 16/400 165/185 180/6.28 180/65.51 29/402.03 29/592 29/825 29/894.341 29/894.343 301/104 301/110.5 301/57 301/6.5 310/67R 340/435 340/5.61 340/990 340/993 455/420 482/5 70/237 70/263 701/117 701/2 701/22 701/29.2 701/31.4 701/32.3 701/33.4 701/538 709/201 717/168

Classification Explorer

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Forward Citations: WO17176202, WO17162463, USD801270, USD800658, USD800657, USD800064, USD800063, USD791023, USD789417, US9827843, US9818294, US9815363, US9744845, US9738151, US9733098, US9701190, US9669897, US9669700, US9669699, US9636993, US9636992, US9547944, US9513629, US9508257, US9437052, US2017197112, US2017158431, US2017123415, US2016327944, US2016318421, US2016144709, US2016068223, US2016012649, US2015377635, US2015317900, US2015316389, US2015297308, US2015265200, US2015210350, KR101685599, FR3049058, FR3042449, EP3025949, DE102016200377,

Abstract:
Source: US2016009169A A system, method, and device for operations of an electrically motorized vehicle. The vehicle can utilize an electrically motorized wheel to convert a non−motorized wheeled vehicle to an electrically motorized wheeled vehicle. The electrically motorized wheeled vehicle includes a plurality of electrically motorized wheels, each of the plurality of electrically motorized wheels in communication with at least one other of the plurality of electrically motorized wheels to coordinate operation of the vehicle.

0) US2008049949A – LIGHTWEIGHT AUDIO SYSTEM FOR AUTOMOTIVE APPLICA...

4) Family number: 41512621 (US2008049949A) © PatBase

Title: LIGHTWEIGHT AUDIO SYSTEM FOR AUTOMOTIVE APPLICATIONS AND METHOD

Priority:

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Family:

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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 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 PE PG PH PL PT RO RS RU 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

International class (IPC 8–9): A44B1/00 A47B81/00 A47F7/00 B05D5/06 B21D11/10 B21D26/027 B21D26/031 B23K26/38 B23P11/00 B23P13/00 B23P15/00 B23P17/00 B23P25/00 B23P9/00 B29C39/02 B29C43/00 B29C43/20 B29C45/14 B29C51/10 B29C59/16 B29D17/00 B41M5/24 B60R11/00 B60R11/02 B60R5/00 B65D85/00 E05D3/06 E05D3/14 F16B1/00 F16B19/00 F28F7/00 G04B17/00 G04C11/02 G04G5/00 G04G7/02 G04R20/10 G05G1/02 G06F1/00 G06F1/16 G06F1/18 G06F11/00 G06F17/00 G06F19/00 G06F9/445 G11B33/12 G12B9/00 H01H13/14 H01H13/70 H01H3/02 H01H3/12 H01R13/502 H02H3/00 H04B1/00 H04B1/06 H04B1/08 H04B15/02 H04H20/47 H04Q7/20 H04R1/00 H04R1/02 H04R29/00 H05F1/00 H05K1/02 H05K1/14 H05K11/02 H05K13/00 H05K3/00 H05K3/36 H05K5/00 H05K5/02 H05K7/02 H05K7/12 H05K7/14 H05K7/20 H05K9/00 (Advanced/Invention);
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CPC: G06F1/1656 G06F1/182 H05K13/00 H05K5/0226 H05K7/20436 H04R1/02 B29C59/16 H05K5/0221 B60R11/02 G06F11/00 H05K1/0215 H05K1/141 H05K7/20418 H05K2201/09081 H05K2201/10386 H05K2201/10446 H05K9/0045 H05K7/14 B60R11/0205 H05K5/0217 H05K9/0047 B21D26/027 B21D26/031 H04B15/02 Y10T16/547 Y10T16/5476 Y10T29/49002 Y10T29/49124 Y10T29/49126 Y10T29/49128 Y10T29/4913 Y10T29/49169 Y10T29/49172 Y10T29/4957 Y10T29/49826 Y10T29/49861 Y10T29/5313 Y10T74/20396 Y10T403/70 Y10T403/77 Y10T428/24289 H04B1/082 H05K9/0081 H05K9/0079 H05K3/00 H05K9/0007 H05K7/20409 Y10T29/49117 Y10T428/24917 H05K7/12 Y10T29/4998 Y10T156/1028 G04G5/002 G04R20/10 H05K7/1417 H05K7/142 H05K7/1422 B29C70/68 B29C70/882 B29C70/885

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Abstract:
Source: US2008049949A A lightweight radio/CD player for vehicular application is virtually "fastenerless" and includes a case and frontal interface formed of polymer based material that is molded to provide details to accept audio devices such as playback mechanisms (if desired) and radio receivers, as well as the circuit boards required for electrical control and display. The case and frontal interface are of composite structure, including an insert molded electrically conductive wire mesh screen that has been pre−formed to contour with the molding operation. The wire mesh provides EMC, RFI, BCI and ESD shielding and grounding of the circuit boards via exposed wire mesh pads and adjacent ground clips. The PCB architecture is bifurcated into a first board carrying common circuit components in a surface mount configuration suitable for high volume production, and a second board carrying application specific circuit components in a wave soldered stick mount configuration. The major components and subassemblies are self−fixturing during the final assembly process, eliminating the need for dedicated tools, fixtures and assembly equipment. The major components and subassemblies self−interconnect by integral guide and connection features effecting "slide lock" and "snap lock" self−interconnection. The radio architecture includes improved push buttons employing 4−bar living hinge linkage and front loaded decorative trim buttons.

0) US2006253086A – MEDICAL NEEDLES FOR DAMPING MOTION

5) Family number: 33610430 (US2006253086A) © PatBase

Title: MEDICAL NEEDLES FOR DAMPING MOTION

Priority:

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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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class(IPC 8−9)**:** A61B19/00 A61B5/145 A61B5/15 A61F13/02 A61J1/14 A61J1/16 A61J1/20 A61K9/22 A61K9/70 A61L15/58 A61L24/00 A61L27/28 A61M1/00 A61M1/36 A61M25/00 A61M25/06 A61M25/16 A61M31/00 A61M35/00 A61M37/00 A61M39/10 A61M5/00 A61M5/14 A61M5/142 A61M5/145 A61M5/148 A61M5/158 A61M5/162 A61M5/165 A61M5/168 A61M5/172 A61M5/178 A61M5/20 A61M5/24 A61M5/28 A61M5/31 A61M5/315 A61M5/32 A61M5/34 A61M5/36 A61M5/38 A61M5/50 B01D19/00 B01D53/22 B21D53/00 B23P11/00 B23P17/00 B23P17/04 B65B1/04 B65B3/00 B65B3/04 B67C3/00 B67D5/00 B67D99/00 F01B11/08 F04B13/00 F04B43/02 F04B43/12 G01F11/00

G01F11/02 G01F11/06 (Advanced/Invention);
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Abstract:
Source: US2006253086A A needle structure for communicating media to or from a patient includes a hollow shaft having two ends and a longitudinal dimension between the two ends. A passage is provided along at least a portion of its longitudinal dimension for conveying a flowable media. The shaft has at least one bend along its longitudinal dimension to dampen motion of one end of the needle relative to the other end of the needle.

0) US2007175950A – DISPOSABLE STAPLE CARTRIDGE HAVING AN ANVIL WIT...

6) Family number: 34940218 (US2007175950A) © PatBase

Title: DISPOSABLE STAPLE CARTRIDGE HAVING AN ANVIL WITH TISSUE LOCATOR FOR USE WITH A SURGICAL CUTTING AND FASTENING INSTRUMENT AND MODULAR END EFFECTOR SYSTEM THEREFOR

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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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 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 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 YU ZA ZM ZW

International class (IPC 8–9): A61B17/00 A61B17/02 A61B17/03 A61B17/04 A61B17/064 A61B17/068 A61B17/07 A61B17/072 A61B17/10 A61B17/125 A61B17/138 A61B17/28 A61B17/285 A61B17/29 A61B17/295 A61B17/32 A61B17/3209 A61B17/3211 A61B17/3215 A61B17/58 A61B17/90 A61B17/94 A61B18/00 A61B18/04 A61B18/12 A61B19/00 A61B34/00 A61B34/20 A61B34/30 A61B90/00 B23P6/00 B23Q3/155 G06F12/00 G06F12/02 G06F17/30 H01J H04L9/28 (Advanced/Invention);
A61B17/00 A61B17/064 A61B17/072 A61B17/11 A61B17/115 A61B17/29 A61B19/00 A61B5/00 A61B90/00 H02P7/00 (Advanced/Non–invention);
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A61B17/00 A61B19/00 H02P7/00 (Core/Non–invention);
A61B (Subclass/Invention)

International class (IPC 1–7): A61B17/068 A61B17/072 A61B17/32 A61B18/04

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US class: 1/1 128/898 227/175.1 227/175.100P 227/175.2 227/175.3 227/176.1 227/176.100 227/176.100P 227/176.100S 227/177.1 227/178.1 227/178.100P 227/179.1 227/180.1 227/180.100P 227/181.1 227/182.1 227/19 29/33K 29/402.03 483/1 606/1 606/117 606/130 606/130S 606/139 606/167 606/170 606/170P 606/170S 606/1P 606/219 606/39 606/39S 606/75 606/75S 707/104.1 707/999.104 707/999.104S 707/999.107 707/999.107S 707/E17.009 707/E17.009S 711/103 711/103S 711/115 711/115S 711/E12.001 711/E12.001S 711/E12.008 711/E12.008S 713/193 713/193S

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CN101507621, AU2015200264, AU2013202242, AU2010203027, AU2010202568, AU2009202607, AU2008243109, AU2008200957,

Abstract:
Source: US2007175950A A disposable staple cartridge for a surgical cutting and fastening instrument. Various embodiments include a disposable anvil that is supported relative to the cartridge body and movable between open and closed positions. At least one tissue stop is provided on the disposable anvil for orienting the tissue to be cut and stapled relative to the staples supported within the cartridge body. Other embodiments relate to end effectors for surgical cutting and fastening instruments that can be used in connection with a plurality of staple cartridge bodies that each have a common length but which may different lengths of staple lines.

0) US2007155580A – CONTINUOUSLY VARIABLE TRANSMISSION

7) Family number: 34556673 (US2007155580A) © PatBase

Title: CONTINUOUSLY VARIABLE TRANSMISSION

Priority:

CA20062632751	20061003	CA20062858525	20061003	CA20142632751	20140819
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US20060833327P	20060725	EP20060816430	20061003	WO2006US39166	20061003
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Family:

Publication number	Publication date	Application number	Application date
CA2632751 AA	20080609	CA20062632751	20061003
CA2632751 C	20150113	CA20062632751	20061003
CA2858525 AA	20070614	CA20062858525	20061003
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Probable Assignee: FALLBROOK INTELLECTUAL PROPERTY COMPANY LLC

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Agent(s): SMART AND BIGGAR; PRICE PAUL ANTHONY KING; MELDRUM DAVID JAMES; KNOBBE MARTENS OLSON AND BEAR 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 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 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

International class (IPC 8–9): B60B27/02 B60B7/00 B60T7/00 B62M9/04 F16B33/00 F16D3/06 F16D65/00 F16D65/12 F16H13/00 F16H13/04 F16H13/10 F16H15/00 F16H15/04 F16H15/26 F16H15/28 F16H15/40 F16H15/52 F16H3/00 F16H55/12 F16H57/02 F16H57/031 F16H57/04 F16H9/12 (Advanced/Invention); F16H61/664 F16H63/06 (Advanced/Non–invention); F16B33/00 F16D3/02 F16H13/00 F16H15/00 F16H55/02 (Core/Invention); F16H (Subclass/Invention)

International class (IPC 1–7): F16H13/10

CPC: F16H57/02 B60B7/0013 F16H15/52 F16H61/6649 F16H63/067 Y10T74/18304 Y10T74/19921 Y10T74/2186 Y10T477/619 F16H57/0487 F16H57/043 F16H15/28 F16D65/12

European class: F16H15/28 F16H15/52 R16H61/664K R16H63/06M

US class: 1/1 188/218 188/218A 188/218XL 411/1 411/1S 464/2 464/2S 476/36 476/36P 476/37 476/38 476/50 476/61 476/65 476/8 477/37 477/37P 74/446 74/446P 74/56 74/606R

Classification Explorer

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Abstract:
Source: US2007155580A Inventive embodiments are directed to components, subassemblies, systems, and/or methods for continuously variable transmissions (CVT). In one embodiment, a main axle is adapted to receive a shift rod that cooperates with a shift rod nut to actuate a ratio change in a CVT. In another embodiment, an axial force generating mechanism can include a torsion spring, a traction ring adapted to receive the torsion spring, and a roller cage retainer configured to cooperate with the traction ring to house the torsion spring. Various inventive idler−and−shift−cam assemblies can be used to facilitate shifting the ratio of a CVT. Embodiments of a hub shell and a hub cover are adapted to house components of a CVT and, in some embodiments, to cooperate with other components of the CVT to support operation and/or functionality of the CVT. Among other things, shift control interfaces and braking features for a CVT are disclosed.

0) US2004192514A – EXERCISE DEVICE WITH TREADLES

8) Family number: 32222582 (US2004192514A) © PatBase

Title: EXERCISE DEVICE WITH TREADLES

Priority:

EP20040715721	20040227	EP20040715796	20040227	US20030176966F	20030228
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Family:

Publication number	Publication date	Application number	Application date
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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 KR KZ LC LI 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 SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

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A63B1/00 A63B15/00 A63B21/00 A63B22/00 A63B22/06 A63B23/035 A63B23/04 A63B24/00 A63B69/16 A63B71/00 (Core/Invention);
A63B21/008 A63B23/035 (Core/Non–invention);
A63B (Subclass/Invention)

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Abstract:
Source: US2004192514A An exercise device employing side−by−side pivotally supported moving surfaces. In one particular example, an exercise device employs a first belt deployed about a front roller and a rear roller and an adjacent second belt deployed about a front roller and a rear roller. The rear of the belts in the area of the rear rollers are pivotally secured and the front of the belts in the area of the front roller are adapted to reciprocate in an up and down motion during use. In some implementations, the moving surfaces include an interconnection structure such that a generally downward movement of one surface is coordinated with a generally upward movement of the other surface. In other implementations, the moving surfaces are operably associated with one or more resistance elements that effect the amount of force required to pivot or actuate the moving surfaces.

9) Family number: 31492595 (US2006118248A) © PatBase

Title: DRIVE FOR COVERINGS FOR ARCHITECTURAL OPENINGS

Priority:

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Probable Assignee: HUNTER DOUGLAS

Assignee(s):(std)**:** FISHER ROBERT E II ; HUNTER DOUGLAS ; HAARER STEVEN R ; FRASER DONALD E ; FISHER ROBERT E III ; HUNTER DOUGLAS INC ; KHANTER DUGLAS INK ; HAARER STEPHEN R ; ANDERSON RICHARD ; ANDERSON RICHARD N ; FISHER II ROBERT E

Assignee(s): FISHER ROBERT E ; HUNTER DOUGLAS NORTH AMERICA ; HUNTER DOUGLAS INC PEARL RIVER

Inventor(s):(std)**:** DONALD E FRASER ; FISCHER ROBERT E II ; FISHER ROBERT E ; FISHER ROBERT E II ; FISHER ROBERT E III ; FRASER DONALD E ; FREJZER DONALD E ; STEVEN R HAARER ; ROBERT E III FISHER ; ROBERT E FISHER III ; RICHARD ANDERSON ; HAARER STEVEN R ; HAARER STEPHEN R ; KHARER STIVEN R ; FISCHER ROBERT E ; ANDERSON RICHARD N ; ANDERSON RICHARD ; FISHER II ROBERT E

Inventor(s): FISCHER ROBERT E II FRASE DONALD E HAARER SPEPHEN R ; RICHARD N ; RICHARD N ANDERSON ; ROBERT E FISHER ; ROBERT E FISHER II ; STEPHEN R HAARER ; FISHER ROBERT E II FRASER DONALD E HAARER STEPHEN R ANDERSON RICHARD N ; HAARER STEPHEN ; HAARER STEVEN ; HAARER STEVEN R MACEO ; FRASER DONALD E OWENSBORO ; ANDERSON ; ANDERSON RICHARD WHITESVILLE ; FISHER ROBERT E III OWENSBORO ; FISHER ROBERT EII ; FRASER DONALD ; FISHER III ROBERT E ; FISHER ROBERT

Agent(s): SHELSTON IP PTY LTD; SHELSTON IP; GOWLING LAFLEUR HENDERSON LLP; CLARKE MODET; SILVANA MARIA LOPEZ DIAZ; KRAUS AND WEISERT PATENTANWAELTE PARTGMBB; SMITH SAMUEL LEONARD; MASUI CHUJI; ONO SHINJIRO; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO; CAMORIANO AND ASSOCIATES; THERESA FRITZ; GUILLERMO; THERESA; DORITY AND MANNING PA; CAMORIANO THERESA F

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 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 PE PG PH PL PT RO RS RU 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 YU ZA ZM ZW

International class (IPC 8–9): A47H5/00 A47H5/02 B65G1/00 B65H23/06 E06B3/48 E06B3/94 E06B9/02 E06B9/06 E06B9/08 E06B9/24 E06B9/262 E06B9/28 E06B9/30 E06B9/303 E06B9/32 E06B9/322 E06B9/324 E06B9/36 E06B9/38 E06B9/42 E06B9/56 E06B9/60 E06B9/68 E06B9/80 E06B9/90 F03G1/00 F03G1/06 F03G1/08 (Advanced/Invention);
B65G1/00 E06B9/322 E06B9/60 E06B9/80 (Advanced/Non–invention);
B65H23/06 E06B3/00 E06B3/32 E06B9/02 E06B9/06 E06B9/24 E06B9/26 E06B9/28 F03G1/00 (Core/Invention);
E06B9/56 E06B9/80 (Core/Non–invention);
B65G (Subclass/Invention)

International class (IPC 1–7): B65G0/00 B65G1/00 E06B9/262 E06B9/28 E06B9/30 E06B9/322

CPC: E06B9/324 E06B2009/3225 E06B2009/3227 E06B2009/807 F03G1/00 E06B9/42 E06B9/68 F03G1/06 E06B9/02 E06B9/36 E06B2009/2625 E05Y2201/47 E05Y2201/706 E06B9/38 E06B2009/3222 E06B9/60 E06B9/80 E06B2009/2627 E06B9/262 E06B9/322

European class: E06B9/262 E06B9/32 E06B9/322 E06B9/324 E06B9/36 E06B9/42 E06B9/90 P06B9/262C P06B9/322C P06B9/322C2 P06B9/60 P06B9/80 P06B9/80E

US class: 160/170 160/171 160/178.2 160/241 160/292 160/295 160/307 160/309 160/319 160/405 160/405S 160/84.02 160/84.04 160/84.040P 160/84.05 185/37 185/37P 242/421 242/421S

Classification Explorer

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Forward Citations: WO17109604, WO15002705, WO14163602, WO14142790, WO14011883, WO13027878, WO12122161, WO12122140, WO12122140, WO11090975, WO10123853, WO09086898, WO08094720, USD793765, USD791581, USD788492, USD764836, USD758095, USD746077, USD744765, USD734061, USD734060, USD727659, USD711156, USD687248, USD636204, US9797188, US9765565, US9759008, US9752380, US9739089, US9732555, US9695633, US9677330, US9663986, US9650829, US9644423, US9540871, US9482050, US9482048, US9482046, US9422766, US9398998, US9388632, US9353570, US9335753, US9334688, US9284774, US9222302, US9217282, US9121481, US9103157, US9080381, US8925615, US8899298, US8893766, US8887786, US8863812, US8770257, US8752607,

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Abstract:
Source: US2006118248A A cord drive mechanism to convert linear motion to circular motion for use in coverings for architectural openings. Various controls are used to provide a braking force on the cord. Some of the embodiments incorporate a capstan.

0) US2006089609A – DEVICES AND METHODS FOR TISSUE MODIFICATION

10) Family number: 32202464 (US2006089609A) © PatBase

Title: DEVICES AND METHODS FOR TISSUE MODIFICATION

Priority:

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EP20100075066 20071207 JP20070536970 20051015 US20040622865P 20041028
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: AMENDIA INC

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Assignee(s): AGILENT TECHNOLOGIES INC ; ANTARES CAPITAL LP AGENT AS ; BAXANO INC MOUNTAIN VIEW ; CANTORNA NESTOR C ; EXWORKS CAPITAL FUND I LP ; QUANDARY MEDICAL LLC ; CORTLAND CAPITAL MARKET SERVICES LLC AGENT AS

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Inventor(s): ARCENIO GREG ; VAHID SAADAT ; STEVEN A SPISAK ; SPISAK STEVEN ; NESTOR C CATORNA ; RONALD LEGUIDLEGUID ; ROY LEGUIDLEGUID ; MIKE DREWS ; GREGORY SCHMITZ ; HLAVKA EDWIN ; MICHAEL P WALLACE ; JAMES YURCHENCO ; JEFFEREY BLEAM ; JEFFERY L BLEICH ; JOHN ASHLEY ; EDWIN J HLAVKA ; EDWIN J HLVAKA ; DAVID R MILLER ; BORGSTROM AMIE ; BLEICH JEFFREY ; BLEICH JEFFERY

Agent(s): PEGASUS IP; BAXTER PATENT ATTORNEYS PTY LTD; IP SOLVED ANZ PTY LTD; BORDEN LADNER GERVAIS LLP; FRANKE AND PARTNER PATENT U RECHTSANWAELTE INTELLECTUAL PROPERTY LAW FIRM; DR SCHOEN NEYMEYR AND PARTNER MBB; RUHRMANN ANDREA ELIZABETH ET AL; RUHRMANN ANDREA ELIZABETH; MILLER JAMES LIONEL WOOLVERTON; PROBERT GARETH DAVID; POTTER CLARKSON LLP; LEVINE BAGADE LLP; BAXANO INC AND TOWNSEND AND TOWNSEND AND CREW; GREENBERG TRAURIG LLP (SV2); GREENBERG TRAURIG LLP SV2; SHAY LAW GROUP LLP; SHAYGLENN LLP; SHAY GLENN LLP; BAXANO C/O SHAY LAW; BAXANO C O SHAY LAW; SHAY GLEN LLP; DAVID L; GLENN BENJAMIN W ET AL; SHOOP RICHARD D ET AL

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 YU ZA ZM ZW

International class(IPC 8–9)**:** A61B1/00 A61B1/32 A61B10/00 A61B10/02 A61B17/00 A61B17/02 A61B17/14 A61B17/16 A61B17/17 A61B17/22 A61B17/26 A61B17/29 A61B17/32 A61B17/3205 A61B17/3207 A61B17/34 A61B17/56 A61B17/58 A61B17/68 A61B17/70 A61B17/82 A61B17/88 A61B17/90 A61B18/14 A61B18/18 A61B19/00 A61B5/00 A61B5/04 A61B5/05 A61D1/02 A61F11/00 A61F2/00 A61F2/30 A61F2/44 A61F2/46 A61F5/00 A61F5/04 A61H1/02 A61M25/00 A61M25/09 A61M29/00 A61M5/32 A61N1/00 A61N1/05 A61N1/08 (Advanced/Invention);
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US class: 1/1 128/898 128/898S 600/104 600/104P 600/204 600/210 600/210P 600/373 600/544 600/544S 600/546 600/546P 600/547 600/547P 600/554 600/554S 600/562 600/564 600/569 600/570 600/585 601/32 601/32S 604/272 604/272P 604/500 604/528 604/528P 604/533 606/1 606/103 606/103P 606/105 606/108 606/110 606/110P 606/167 606/167S 606/170 606/171 606/171P 606/176 606/177 606/1P 606/213 606/279 606/32 606/34 606/39 606/41 606/45 606/45P 606/53 606/53P 606/74 606/79 606/79P 606/79S 606/80 606/82 606/83 606/84 606/85 606/85P 606/86.00R 606/86.00RP 606/86R 606/90 606/90S 607/116 607/116S 607/117 607/117S 607/118 607/43

Classification Explorer

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Abstract:
Source: US2006089609A Methods and apparatus are provided for selective surgical removal of tissue. In one variation, tissue may be ablated, resected, removed, or otherwise remodeled by standard small endoscopic tools delivered into the epidural space through an epidural needle. The sharp tip of the needle in the epidural space, can be converted to a blunt tipped instrument for further safe advancement. The current invention includes specific tools that enable safe tissue modification in the epidural space, including a barrier that separates the area where tissue modification will take place from adjacent vulnerable neural and vascular structures. A nerve stimulator may be provided to reduce a risk of inadvertent neural abrasion.

0) US2007045379A – STAPLE CARTRIDGES FOR FORMING STAPLES HAVING DI...

11) Family number: 41668485 (US2007045379A) © PatBase

Title: STAPLE CARTRIDGES FOR FORMING STAPLES HAVING DIFFERING FORMED STAPLE HEIGHTS

Priority:

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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 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 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 YU ZA ZM ZW

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Abstract:
Source: US2007045379A A staple cartridge for use with a stapling device that has an actuator that is selectively actuatable in an axial direction and an anvil portion that is selectively movable between open and closed positions is disclosed. Various embodiments of the present invention include a cartridge body that movably supports first

and second staple drivers. The staple drivers each support a staple thereon and serve to drive the staples into forming contact with the anvil upon actuation by the actuator. The various embodiments of the present invention enable the final formed heights of the staples to be varied without the need to use different sizes of staples.

0) US2008188868A – DIRECT DRIVE ENDOSCOPY SYSTEMS AND METHODS

12) Family number: 41912094 (US2008188868A) © PatBase

Title: DIRECT DRIVE ENDOSCOPY SYSTEMS AND METHODS

Priority:

CN200780049027	20071130	EP20070864990	20071130	JP20090539511	20071130
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Family:

Publication number	Publication date	Application number	Application date
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Assignee(s): BOSTON SCIENTIFIC LIMITED ; BOSTON SCIENTIFIC LTD ; BOSTON SCIENTIFIC SCIMED INC

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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 UZ VC VN ZA ZM ZW

International class (IPC 8–9): A61B1/00 A61B1/005 A61B1/01 A61B1/018 A61B1/04 A61B1/12 A61B1/313 A61B17/00 A61B17/02 A61B17/04 A61B17/06 A61B17/28 A61B17/29 A61B17/32 A61B19/00 A61B34/00 A61B34/30 A61B90/00 A61B90/10 A61M25/01 A61M31/00 A61M37/00 F16D19/00 G02B23/24 (Advanced/Invention);
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US class: 1/1 192/82.00RS 192/82R 600/102 600/102P 600/106 600/111 600/114 600/114S 600/118 600/118P 600/159 600/159S 600/208 600/585 604/524 604/524S 604/528 604/528S 606/1 606/130 606/130P 606/139 606/139P 606/205 606/205P 606/206 606/206P

Classification Explorer

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Abstract:
Source: US2008188868A Disclosed herein are various systems and methods for facilitating control of a tool or tools. The systems can allow a user to control multiple degrees of freedom. One such system allows a user to control multiple degrees of freedom of two tools simultaneously. Another such system allows a user to control multiple degrees of freedom with a single hand. Frames and rails for supporting and/or constraining movement of a tool or tools are also described herein.

13) Family number: 32394528 (US2005250984A) © PatBase

Title: MULTIPLE REMOVABLE APPARATUS AND METHODS FOR MANIPULATING AND SECURING TISSUE

Priority:

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

International class (IPC 8–9): A61B1/00 A61B17/00 A61B17/03 A61B17/04 A61B17/06 A61B17/064 A61B17/08 A61B17/10 A61B17/11 A61B17/12 A61B17/28 A61B17/29 A61B17/64 A61D1/00 A61F5/00 (Advanced/Invention);
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US class: 1/1 24/115.00R 24/115R 24/132R 24/136.00R 24/136R 600/102 600/102P 606/139 606/139P 606/142 606/142P 606/144 606/145 606/148 606/151 606/153 606/153P 606/153S 606/185 606/185P 606/205 606/207 606/213 606/213S 606/223 606/232 606/232P

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Abstract:
Source: US2005250984A Multiple removable apparatus and methods for manipulating and securing tissue are described herein. In creating tissue folds within the body of a patient, a tissue manipulation assembly may generally have tissue stabilizing members adapted to stabilize tissue therebetween, an engagement member slidably disposed through the stabilizing members and having a distal end adapted to engage tissue, and a delivery tube pivotable about the tissue stabilizing members. The tissue manipulation assembly optionally may be configured for removable attachment to an endoscope.

14) Family number: 34196850 (US2007032741A) © PatBase

Title: BIOPSY DEVICE WITH REPLACEABLE PROBE AND INCORPORATING VIBRATION INSERTION ASSIST AND STATIC VACUUM SOURCE SAMPLE STACKING RETRIEVAL

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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 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 YU ZA ZM ZW

International class (IPC 8–9): A61B1/00 A61B10/00 A61B10/02 A61B10/04 A61B17/00 A61B17/32 A61B17/3207 A61B17/34 A61B19/00 A61B8/14 A61B90/00 A61M1/00 (Advanced/Invention); A61B10/00 A61B10/02 A61B17/00 (Advanced/Non-invention); A61B1/00 A61B10/00 A61B10/02 A61B17/00 A61B17/32 A61B17/34 (Core/Invention); A61B10/00 A61B17/00 (Core/Non-invention); A61B (Subclass/Invention)

International class (IPC 1–7): A61B10/00 A61B10/02

CPC: A61B2217/005 A61B8/0841 A61B8/12 A61B8/463 A61B2017/00039 A61B2017/00115 A61M1/005 A61M1/0052 A61B2017/00017 A61B2017/00137 A61B2017/0019 A61M1/0023 A61M2205/12 A61B2017/00482 A61B2010/0208 A61B2010/0225 A61B2017/00199 A61B2017/00398 A61B2017/0046 A61B90/98 A61B2034/252 A61B10/0283 A61B10/0266 A61B10/0275 A61B10/0041 A61B10/0096

European class: A61B10/02P6N A61B10/02P8 A61M1/00H K61B10/00G K61B10/00S K61B10/02A K61B10/02M K61B10/02P6 K61B10/02P6N K61B10/02P8 K61B17/00C K61B17/00C4 K61B17/00C4P3W K61B17/00C5 K61B17/00F4 K61B17/00H K61B217/00Q16 K61M1/00H K61M1/00H12C K61M1/00H12D K61M205/12

US class: 1/1 600/562 600/563 600/563P 600/564 600/565 600/565S 600/566 600/566P 600/567 600/567P 600/567S 600/568 600/568S 604/326 604/326P

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Abstract:
Source: US2007032741A A biopsy device and method are provided for obtaining a tissue sample, such as a breast tissue biopsy sample. The biopsy device includes a disposable probe assembly with an outer cannula having a distal piercing tip, a cutter lumen, and a cutter tube that rotates and translates past a side aperture in the outer cannula to sever a tissue sample. The biopsy device also includes a reusable hand piece with an integral motor and power source to make a convenient, untethered control for use with ultrasonic imaging. The reusable hand piece incorporates a probe oscillation mode to assist when inserting the distal piercing tip into tissue. A straw stacking assembly is automatically positioned by the reusable hand piece to retract multiple samples with a single probe insertion as well as giving a visual indication to the surgeon of the number of samples that have been taken.

15) Family number: 50963741 (US2014005683A) © PatBase

Title: HIGHLY ARTICULATED ROBOTIC PROBES AND METHODS OF PRODUCTION AND USE OF SUCH PROBES

Priority:

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LEWIS REYNALDO ; RUNYON JUSTIN S ; JOHNSTON GABRIEL A ; METROBOTICS CORP ; WITHERSPOON LELAND ; TULLY STEPHEN ; TRIGGS EMILY ; O KEEFE JONATHAN ; WALKER JR RICHARD ; WARNOCK DAVID ; PUNGOR ANDRAS ; ZUBIATE BRETT ; WRIGHT III CORNELL

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Inventor(s):(std)**:** CERIER JEFFREY ; CRUZ AMOS ; KENNEDY KEVIN ; LEWIS REYNALDO ; MALAQUAIS COREY ANTHONY ; MORDENTE ZACKERY ; NUNES NANCY A ; O KEEFE JONATHAN ; TRIGGS EMILY ; TULLY STEPHEN ; WALKER JR RICHARD ; WARNOCK DAVID ; WHIPPLE DALE ; WILLIAM H KENNEFICK ; WITHERSPOON LELAND ; WRIGTH CORNELL III ; OYOLA ARNOLD ; KENNEFICK WILLIAM H ; KARCSMAR JOSEPH ; JOSEPH STAND ; JOHNSTON GABRIEL A ; HOLLOWAY JR ANTHONY RAY ; GILMARTIN KEVIN ; PUNGOR ANDRAS ; RIENZIE ADAM ; ROBERT DIDOMENICO ; RUNYON JUSTIN S ; SAMUEL F STRAFACE ; STAND JOSEPH A III ; GROVER SIMON ; DIDOMENICO ROBERT ; DARISSE IAN JOSEPH ; DALEY ERIC ; DALE WHIPPLE ; CASTRO MICHAEL S ; CASTRO MICHAEL ; CALEF TOM ; CALEF THOMAS J ; CALEF THOMAS ; ANDERSON BOB ; MICHAEL SALVATORE CASTRO ; J CHRISTOPHER FLAHERTY ; FLAHERTY CHRISOPHER J ; WRIGHT CORNELL III ; STAND III JOSEPH A ; FLAHERTY R MAXWELL ; DEGEORGE CHRISTOPHER P ; DARISSE IAN ; ZUBIATE BRETT ; WRIGHT LLL CORNELL ; WRIGHT III CORNELL ; STRAFACE SAMUEL F ; STAND JOSEPH A ; STAND JOSEPH ; SALVATORE CASTRO MICHAEL ; ROBERT A DIDOMENICO ; OYOLA ARNOLD E ; JOSEPH A STAND ; JOHNSTON GABRIEL ; IAN J DARISSE ; IAN DARISSE ; HOLLOWAY ANTHONY RAY JR ; HALLOWAY JR ANTHONY RAY ; FRANGOLIS TODD ; FRANGLOIS TODD ; FLAHERTY MAXWELL R ; FLAHERTY J CHRISTOPHER ; COHEN DAVID ; ARNOLD OYOLA ; ARNOLD E OYOLA ; FLAHERTY CHRISTOPHER J ; DIDOMENICO ROBERT A ; DARISSE IAN J ; CASTRO MICHAEL SALVATORE ; BRETT ZUBIATE ; BETTENCOURT LUIS ; ANDERSON ROBERT

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Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; RICHES MCKENZIE AND HERBERT LLP; BITTNER BERNHARD; HANNKE CHRISTIAN; YKI PATENT ATTORNEYS; ONELLO AND MELLO LLP; ONELLO ANTHONY P JR ET AL; ONELLO JR ANTHONY P 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

International class (IPC 8–9): A01B A61B A61B1/00 A61B1/005 A61B1/008 A61B1/01 A61B1/012 A61B1/04 A61B1/24 A61B1/273 A61B13/00 A61B17/00 A61B17/02 A61B17/24 A61B17/28 A61B17/29 A61B17/32 A61B17/34 A61B17/94 A61B18/02 A61B18/14 A61B18/22 A61B19/00 A61B34/00 A61B34/20 A61B34/30 A61B34/35 A61B34/37 A61B46/10 A61B46/23 A61B90/00 A61B90/30 A61B90/50 A61B90/57 A61G13/10 A61M25/00 A61M25/06 A61M25/08 A61M25/092 B25J B25J13/00 B25J13/06 B25J17/00 B25J18/02 B25J18/06 B25J19/00 B25J19/06 B25J3/00 B25J9/06 B25J9/18 G02B23/24 H04L12/885 (Advanced/Invention);
A61B1/24 A61B17/00 A61B17/02 A61B17/24 A61B17/29 A61B17/34 A61B18/02 A61B18/14 A61B34/00 A61B34/30 A61B90/00 A61B90/11 A61B90/50 B25J13/00 B25J18/06 B25J19/06 B25J3/00 (Advanced/Non–invention);
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European class: A61B1/005B6 A61B1/005B8 A61B1/00P6 A61B1/01

US class: 1/1 600/139 600/141 600/142 600/146 600/149 600/204 600/240 604/525 606/1 606/130 606/205 74/490.04 901/21

Classification Explorer

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CN101938946 A, CN101528111 A, CN101106935 A, CN101087563 A, CA2858831 AA,

Forward Citations: WO17145342, WO17145340, WO17136710, WO17077888, WO17025982, WO17009604, WO17002143, WO16172162, WO16084997, WO15188071, WO15081008, WO15042453, WO14201538, WO14179683, WO14136583, US9821477, US9808143, US9796081, US9775676, US9713873, US9629683, US9591964, US9550293, US9517557, US9517059, US9266029, US9144370, US2017156569, US2017144298, US2017086931, US2017015007, US2017014024, US2016213227, US2016213224, US2015367508, US2015352715, US2015196364, US2015174500, US2015141844, US2015141756, JP6093911, JP2016527927, JP2015523221, GB2546625, GB2540930, EP3089696, EP2996619, EP2996613, EP2984535, EP2943140, EP2929303, EP2777480, CN105105703, CN103817704, CN103817704,

Abstract:
Source: US2014005683A A highly articulated robotic probe comprises an outer sleeve and an inner core. The outer sleeve and inner core include a plurality of links. The links of the outer sleeve and inner core are configured to pivot relative to one another. Various characteristics of the links determine the overall pivot angle of the articulated probe. Each of the plurality of links may have one or more channels. The channels form a semi−continuous passage from link to link and are configured to receive an elongated member such as an inner core, tool or cable. One or more cables may be used to control the outer links of the outer sleeve and the inner links of the inner core. Various characteristics of the cables determine the overall performance of the articulated probe.

- **search:** SS3 ta=(cable and (seal* or lock*)) and ic=F16G and ft=(ramp and (spring* or bias*)) (Results 24)
- List: SS3 1−50 (ta=(cable and (seal* or lock*)) and ic=F16G and ft=(ramp and (spring* or bias*))) (Results 24)

0) US2016143402A – LOCKING CLIP AND ANCHOR ASSEMBLY FOR A TETHER

1) Family number: 62456925 (US2016143402A) © PatBase

Title: LOCKING CLIP AND ANCHOR ASSEMBLY FOR A TETHER

Priority: US20140551516 20141124

Family:

Publication number	Publication date	Application number	Application date
EP3050450 A1	20160803	EP20150196079	20151124
US2016143402 AA	20160526	US20140551516	20141124
US9717296 BB	20170801	US20140551516	20141124

Probable Assignee: SCHROTH SAFETY PRODUCTS GMBH

Assignee(s):(std)**:** SCHROTH SAFETY PRODUCTS GMBH

Inventor(s):(std)**:** DRABANT STEPHEN JOSEPH ; MYERS DONALD THOMAS ; STILES MARK ANTHONY

Agent(s): GRIEPENSTROH JOERG; JASON; BARNES AND THORNBURG LLP

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

International class (IPC 8–9)**:** A42B3/04 A42B3/08 A44B99/00 B60R21/00 F16G11/00 (Advanced/Invention); B60R21/00 (Advanced/Non–invention)

CPC: A42B3/0473 B60R2021/0048 B60R2021/0086

US class: 24/115K

Classification Explorer

Cited documents: WO10028337 A2, WO07078231 A1, US985887 A, US9532474 BB, US9344536 BB, US9223191 BB, US8011848 BB, US7654027 BA, US6640400 BA, US4915413 A, US4586843 A, US3583042 A, US2640246 A, US2005204457 AA,

Abstract:
Source: US2016143402A A locking clip and anchor assembly for a tether. The clip includes an opening with at least one tab extending into a portion of the opening. The clip is also configured to attach to a tether or strap. In exemplary embodiments, the anchor assembly includes a post, biased support, biasing mechanism, and base. The clip is configured to be connectable to the post and movable to latched and unlatched conditions with respect to the anchor assembly. In the latched condition the clip has a limited range of rotation possible about the post.

0) US5538300A – CABLE LOCK AND SEAL DEVICE

2) Family number: 8393308 (US5538300A) © PatBase

Title: CABLE LOCK AND SEAL DEVICE

Priority: GB19920005565 19920313 GB19920014385 19920707 WO1993GB00515 19930311

Family:

Publication number	Publication date	Application number	Application date
AU199336456 A1	19931005	AU19930036456	19930311
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Probable Assignee: MEGA FORTRIS UK LTD

Assignee(s):(std)**:** BLAIR SECURITY PROD ; BLAIR SECURITY PRODUCTS LIMITE ; BLAIR SECURITY PRODUCTS LTD

Assignee(s): BLOXWICH ENGINEERING LTD ; BLOXWICH SECURITY PRODUCTS LTD ; MEGA FORTRIS LTD ; MEGA FORTRIS (UK) LTD ; BLAIR SECURITY PRODUCTS LTD WALSALL WEST MIDLANDS GB ; MEGA FORTRIS UK LTD ; BLAIR SECURITY PRODUCTS LIMITED

Inventor(s):(std)**:** BROWN CLIVE A ; BROWN CLIVE ALBERT

Inventor(s): BROWN CLIVE ALBERT WEST HEATH BIRMINGHAM B31 3NU G ; BROWN CLIVE ALBERT WEST HEATH BIRMINGHAM B31 3NU GB ; CLIVE ALBERT BROWN

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR LK LU MC MG ML MN MR MW NL NO NZ PL PT RO RU SD SE SN TD TG US

International class (IPC 8–9): F16G11/04 F16G11/10 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7): F16G11/04 G09F3/03

CPC: Y10T24/3976 G09F3/0352 Y10T292/48 Y10T292/502 F16G11/02 F16G11/106 F16G11/14

European class: F16G11/04 F16G11/10 G09F3/03A6B

US class: 24/136A 292/307.00R 292/307R 292/323

Classification Explorer

Cited documents: US5352003 A, US5222776 A, US4878269 A, US4747631 A, US4707891 A, US4640538 A, US3239255 A, US2606350 A, US2401418 A, US1628744 A, US1218752 A, FR2388114 A1,

Forward Citations: WO9838088, WO15119494, WO13116429, WO10089708, WO0138756, USD553575, USD525110, USD525109, USD521356, USD514425, US9803399, US9558682, US8578566, US8156771, US8065843, US8001660, US6457754, US6131969, US5820176, US5611583, US2016356292, US2013200637, US2011041292, US2011012377, US2010229350, US2009106947, US2009071211, US2008196326, US2007262593, US2005193783, US2004195556, ITPN20090011, GB2514279, GB2365915, GB2365915, GB2326620, FR2853381, EP3102848, EP0861994, EP0774598, EA2373, EA002373, CN106133391, CN104508323, CN104508323,

Abstract:
Source: US5538300A PCT No. PCT/GB93/00515 Sec. 371 Date Dec. 19, 1994 Sec. 102(e) Date Dec. 19, 1994 PCT Filed Mar. 11, 1993 PCT Pub. No. WO93/18316 PCT Pub. Date Sep. 16, 1993In a cable lock and seal device a roller is rotatable about a single axis normal to the axis of an inextensible member and with respect to a ramp which, in turn, is inclined with respect to the axis of the inextensible member. The roller is moveable up and

down the ramp between a retracted position in which the member can be drawn through a passage in which the device and a locking position in which the roller rolls up the ramp to clamp the member against movement in the opposite direction with the member trapped between the roller and the opposite face of the passage. A spring acts on the roller to urge it up the ramp at all times.

0) US5611583A – CABLE LOCK AND SEAL WITH COILED SPRING

3) Family number: 9533087 (US5611583A) © PatBase

Title: CABLE LOCK AND SEAL WITH COILED SPRING

Priority: CA19962170701 19960229 US19950558728 19951116

Family:

Publication number	Publication date	Application number	Application date
CA2170701 AA	19970517	CA19962170701	19960229
CA2170701 C	20050405	CA19962170701	19960229
DE69608075 D1	20000608	DE19966008075	19960827
DE69608075 T2	20001102	DE19966008075T	19960827
DK0774598 T3	20001113	DK19960113701T	19960827
EP0774598 A1	19970521	EP19960113701	19960827
EP0774598 B1	20000503	EP19960113701	19960827
FI111979 B	20031015	FI19960003324	19960827
FI963324 A	19970517	FI19960003324	19960827
FI963324 A0	19960827	FI19960003324	19960827
NO312692 B1	20020617	NO19960003604	19960828
NO963604 A	19970520	NO19960003604	19960828
NO963604 A0	19960828	NO19960003604	19960828
US5611583 A	19970318	US19950558728	19951116

Probable Assignee: BRAMMALL INC

Assignee(s):(std)**:** BRAMMALL INC

Assignee(s): BRAMMALL INC ANGOLA ; BYSTRY JERRY ; WELLS FARGO BANK NATIONAL ASSOCIATION ; TYDEN GROUP INC ; TYDEN SEAL CO INC ; TELESIS TECHNOLOGIES INC ; TYDEN CAYMAN HOLDINGS CORP ; TYDEN GROUP HOLDINGS CORP ; EJ BROOKS CO ; AMERICAN CAPITAL FINANCIAL SERVICES INC ; BECKER ALAN

Inventor(s):(std)**:** BECKER ALAN ; BYSTRY JERRY

Agent(s): SMART AND BIGGAR

Designated states: BE DE DK FR GB LU NL SE

International class (IPC 8–9): E05B67/36 F16G11/10 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7): B65D33/34 E05B67/00 E05B67/36 F16G11/10

CPC: Y10T24/3976 G09F3/0358 Y10T292/48 Y10T292/498 F16G11/108 F16G11/14

European class: F16G11/10 G09F3/03A6C

US class: 24/136A 292/307.00R 292/307R 292/320

Classification Explorer

Cited documents: WO9318316 A1, US830565 A, US5352003 A, US5222776 A, US5147145 A, US5092641 A, US4747631 A, US4074916 A, US3770307 A, US3204311 A, US1139595 A, FR18406 E,

Forward Citations: WO05123522, WO0154100, USD525110, USD525109, USD521356, USD514425, US9558682, US8578566, US8001660, US7571518, US6719335, US6457754, US6131969, US2016356292, US2013200637, US2011179833, US2011012377, US2009071211, US2007262593, US2007220714, US2005193783, GB2430007, GB2430007, EP1275099, EP1172781, CN106133391,

Abstract:
Source: US5611583A An improved locking device which has a body member with a cable which has one end attached to the body member and a second end of the cable which can be inserted into the body member in a first direction but which cannot be withdrawn in a second direction. An improved spiral spring biases a disc that rides

on a ramp into engagement with the second end of the cable so as to lock it so it cannot be withdrawn from the body member, the coil spring provides a simple and efficient biasing device.

0) US2016356292A – CABLE LOCK AND SEAL DEVICE

4) Family number: 60056352 (US2016356292A) © PatBase

Title: CABLE LOCK AND SEAL DEVICE

Priority: MY20140700257 20140207 WO2015MY00008 20150205

Family:

Publication number	Publication date	Application number	Application date
CL2016001992 A1	20170417	CL20160001992	20160808
CN106133391 A	20161116	CN201580017547	20150205
CO20160001162 A2	20170209	CO20160001162	20160825
CR20160390 A	20170119	CR20160000390	20150205
EP3102848 A1	20161214	EP20150745948	20150205
EP3102848 A4	20171004	EP20150745948	20150205
MX2016010298 A1	20170206	MX20160010298	20150205
PE14612016 A1	20170127	PE20160001439	20150205
US2016356292 AA	20161208	US20150117193	20150205
WO15119494 A1	20150813	WO2015MY00008	20150205

Probable Assignee: MEGA FORTRIS MALAYSIA SDN BHD

Assignee(s):(std)**:** MEGA FORTRIS MALAYSIA SDN BHD

Inventor(s):(std)**:** CHUA YUEN KAM ; YUEN KAM CHUA

Agent(s): ESTUDIO CLARKE MODET AND CO CHILE LIMITADA; CAROLINA MERCEDES DAZA MONTALVO; SCHNEIDER MICHAEL; CHEW KHERK YING 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

International class (IPC 8–9): F16B2/08 F16B2/12 F16G11/04 F16G11/10 F16G11/14 G09F3/03 (Advanced/Invention)

CPC: F16G11/106 F16B2/12 F16B2/08 G09F3/0352 F16G11/14 G09F3/0323

US class: 24/136R

Classification Explorer

Cited documents: WO0138756 A1, US8578566 BB, US8001660 BB, US6719335 BB, US6578886 BA, US6550830 BB, US6345847 BA, US5820176 A, US5647620 A, US5611583 A, US5538300 A, US5352003 A, US4640538 A, US4074916 A, US2011041292 AA, US2006196016 AA, EP1172781 A1, EP0630450 B1, CN102089549 A,

Abstract:
Source: US2016356292A A cable lock and seal device comprising a body and a cover with which complementarily forms a block enclosing there within a passage and a chamber. The body is integral with a base in which one end of a cable may be secured. The other free end of the cable may be inserted into the passage which is preferably curved and traverses the assembled body–and–cover block. The chamber is adapted with a ramp rising towards the passage, a slot for retaining a spring which second end is disposed to urge a locking wheel up the ramp against said passage. The urging of the locking wheel by the biasing means up the ramp is restrained when the locking wheel's axle engages a rib on the chamber wall to limit the wheel's further entry into the passage upon sufficiently engaging said cable and preventing its withdrawal by reversing its insertion.

0) WO0138756A1 – CABLE LOCK AND SEAL DEVICE DISPOSITIF D'ETANCH...

5) Family number: 20675570 (WO0138756A1) © PatBase

Title: CABLE LOCK AND SEAL DEVICE

Priority: GB19990027870 19991126 WO2000GB04462 20001124

Family:

Publication number	Publication date	Application number	Application date
AU200115342 A1	20010604	AU20010015342	20001124
AU200115342 A5	20010604	AU20010015342D	20001124
GB199927870 A0	20000126	GB19990027870	19991126
GB9927870 A0	20000126	GB19990027870	19991126
WO0138756 A1	20010531	WO2000GB04462	20001124

Probable Assignee: BLOXWICH TRANSPORT PROD LTD

Assignee(s):(std)**:** BLOXWICH TRANSPORT PROD LTD ; BLOXWICH TRANSPORTATION PRODUC ; BROWN CLIVE ALBERT ; BLOXWICH TRANSPORTATION PRODUCTS LIMITED ; BLOXWICH ENG

Assignee(s): BLOXWICH ENGINEERING LIMITED ; BLOXWICH ENGINEERING LTD ; BLOXWICH TRANSPORTATION PRODUCTS LTD

Inventor(s):(std)**:** BROWN CLIVE ALBERT

Inventor(s): CLIVE ALBERT BROWN

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

International class (IPC 8–9): F16G11/04 F16G11/10 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7): F16G11/04 G09F3/03

CPC: G09F3/0352 F16G11/02 F16G11/108 F16G11/14 G09F3/0358

European class: F16G11/04 F16G11/10 G09F3/03A6B G09F3/03A6C

Classification Explorer

Cited documents: US830656 A, US830565 A, US5538300 A, US5222776 A, US4747631 A, US4074916 A,

Forward Citations: WO17016687, WO04005753, RU173718, GB2453756, GB2453756, EP3115642, EP3115641, EP3115640, EP3102848,

Abstract:
A cable lock and seal device comprises a body (2) having a passage (9) therethrough and an elongate flexible inextensible member such as a cable (11) having one end (13) attached to the body, the opposite end being adapted to pass through the passage so that such cable engages a friction roller enclosed by the body, and rotatable about an axis normal to the axis of the passage. The roller (17) is movable upwardly along a surface (20) of a ramp which is inclined with respect to the axis of the passage (9) thereby to reduce the dimension of the passage available for accommodating the cable. A spring (19) is arranged to bias the roller (17) against the cable (11) when the latter is inserted into the passage (9), whereby, on attempted withdrawal of the cable from that passage, frictional engagement between the roller (17) and the cable (11) tends to draw the roller (17) upwardly along the ramp surface (20) to cause a jam fit with the cable (11) to resist further withdrawal. The spring (19) is arranged to bias the ramp surface (20) towards the axis of the passage (9), and that ramp surface (20) may be constituted by a surface of the spring (19).

0) OA2945A – SYSTEME DE RACCORDEMENT ET DE FIXATION D'ELEMEN...

6) Family number: 32785913 (OA2945A) © PatBase

Title: SYSTEME DE RACCORDEMENT ET DE FIXATION D'ELEMENTS DE JONCTION FLEXIBLES ET DE CONDUCTEURS ELECTRIQUES. SYSTEM WIRING AND FIXING ELEMENTS JUNCTION FLEXIBLE AND ELECTRICAL CONDUCTORS. (Machine translation)

Priority: OA19680053440 19681202

Family:

Publication number	Publication date	Application number	Application date
OA2945 A	19701215	OA19680053440	19681202

Probable Assignee: PASBRIG MAX

Assignee(s):(std)**:** PASBRIG MAX

Assignee(s): MAX PASBRIG

International class (IPC 8–9): F16G11/10 H01R4/52 (Advanced/Invention); F16G11/00 H01R4/52 (Core/Invention)

International class (IPC 1–7): F16G11/10 H01R4/52

CPC: F16G11/106 F16G11/108 H01R4/52 F16G11/12

European class: F16G11/10 H01R4/52

Classification Explorer

Abstract:
Source: OA2945A [Source: Claim 1] ***** WARNING: OCR DATA – DESCRIPTION AND CLAIMS MAY OVERLAP *** *** Please email the Publication Number to Patbase@rws.com of any affected text for review ***** RE SUMS Systeme de raccordement et de fixation amovibles d'elements de jonction flexibles et de conducteurs electriques, oii une piece de serrage a ressort, guidee dans une chambre d'un boitier, verrouille, entre elle meme et la paroi de la chambre, 1'element 5 de jonction ou le eonducteur electrique, et presentant, isolement ou en combinaison, les caracteres inventifs suivants: 1. la chambre est formee par la rencontre de deux alesages se rejoingnant a angle aigu, grace a quoi le ressort qui maintient oscillante la piece de serrage est guide dans un des alesages, 10 et 1 'element de jonction, ou le conducteur electrique, dans l'autre alesage. / 2, le ressort qui sollicite la piece de serrage est un ressort a boudin enroule en cone, et a une extremite duquel est accorche la piece de serrage, qui presente une queue a elargissement. 15 5. Pour le deverrouillage ou l'introduction d'un element de jonction, on prevoit un bouton de commande mobile, au moyen duquel la piece de serrage peut etre rappelee en arriere malgre le ressort a bou– din annexe. 4. Pour s'assurer contre une liberation imprevue, 1'auto–verrouilla– 20 ge du bouton de commande se fait sous l'action d'un ressort et/ ou d'un aimant, dirige transversalement a la force du ressort a boudin annexe a la piece de serrage, et le bouton de commande est maintenu par une fermeture a farce ou de forme. / 5 5. Un dispositif tendeur est fixe amovible, avec des moyens de fixation de 1'element de jonction sortant de la chambre qui renferme 25 la piece de serrage. 6. le boitier presente une fente ouverte en permanence, ou pouvant etre masquee, et qui s'etend de 11exterieur jusqu'a la chambre renfermant la piece de serrage., 7. le systeme constitue un tendeur pour ceinture de securite, tandis que, dans une chambre de large section transversale rec– tangulaire, plusieurs pieces de serrage sont rangees les unes a cote des autres, et bloquent la ceinture de securite en auto– verrouillage. – 8. le col de la piece de serrage est articule mobile sur un coulisseau qui glisse dans l'alesage ou se trouve le ressort, et est fixe au bouton de commande. 9. Pour le raccordement de deux elements de jonction, deux alesages d'ecartement angulaire de 180 degrees conduisent dans la chambre ou est place un ressort a boudin a spires en double cone, et dont les extremites portent chacune une piece de serrage; au moins une fente longitudinale est menagee dans la gaine du boitier, et un bouton de commande peut s'y deplacer. 10. Dans le systeme correspondant a l'alinea 3» la queue de la piece de serrage est saisie par l'extremite, coudee en noeud coulant, d'un fil guide par une fente vers le bouton de commande. / 11. Dans le systeme conforme a l'alinea 1, il y a deux alesages opposes, a l'extremite de l'alesagui recoit le ressort; un crochet y est ancre par son extremite, et l'extremite du crochet S en saillie a l'interieur de l'alesage, sert de siege de "butee pour le ressort. / 11. Pans le systeme conforme a 11 alinea 9, le boitier presente deux fentes diametralement opposees et s'etendant jusqu'a la chambre qui recoit le ressort a compression, et l'alesage contient une piece de guidage a ergots faisant saillie exterieurement par la fente, et aux extremites exterieures desquels sont montes les elements de commande. z 13. ""ans le systeme conforme a l'alinea 8, a l'extremite de la queue de la niece de serrage, on a prevu une broche–support trans– versale a cette queue, et qui est mobile, articulee dans une gorge du coulisseau. / 14. bans le systeme conforme a l'alinea 4, le bouton de commande est mobile axialement et basculable dans une entaille de la gaine du systeme, ou la paroi de l'entaille situee dans la direction de la commande de liberation du bouton de commande,.presente des crans profiles encoulisse. / 13. Dans un systeme conforme a 1'alinea 5» le dispositif tendeur comprend un bras de levier se terminant, a une de ses extremites, par une fourchette et, dans sa partie en fourchette, il y a des broches qui sont recues dans lew alesages opposes du boit40ti ou bien dans une broche perpendiculaire a l'axe longitudinal

du boitier present, a une de ses extremites, un oeil dans lequel peut–etre enfoncee une des branches de la fourchette du levier ci–dessus, et dont l'autre extremite est entouree par la seconde branche de la fourchette, profilee a cet effet, 16. Dans le systeme conforme a l'alinea 15» le levier presente une fente ouverte lateralement, dans laquelle peut etre introduit 1'element de jonction, et dans laquelle un systeme de serrage, consistant en un ressort a lame et une piece de serrage, est prevu pour l'element de jonction. 17. Dans le systeme conforme aux alineas 5 et 15, le levier est equipe d'un systeme de serrage comportant un manchon avec un ressort a boudin, une piece de serrage et un bouton de commande. / 18. Dans un systeme conforme a l'alinea 5, le dispositif tendeur pour la fixation du cable, possede un serrage a excentrique ou un appendice a plusieurs enroulements. 19. Dans un systeme conforme a l'alinea 6, une chambre recevant la oiece de serrage dans sa position d'ouverture est prevue a partir de l'extremite de l'alesage interieur retreci, a l'in– terieur du boitier, obliquement par rapport a l'alesage./•' 20. Dans un systeme conforme a l'alinea 6, la surface de pression de la piece de serrage epouse 1'element de jonction, ou a un profil concave, en sorte que l'element de jonction, en etat de verrouillage, ne peut s'echapper lateralement dans la direction de la fente. z 21. D percent ns un systeme conforme a l'alinea 6, la fente est dessinee en labyrinthe, pour interdire a 1'element de jonction en place tout glissement vers l'exterieur. 22. Dans un systeme conforme a l'alinea 6, le boitier consiste en un manchon de section transversale en U, dont le cote ouvert peut etre masque par un couvercle. // 23. Dans un systeme conforme aux alineas 6 et 23» le couvercle glisse dans une paroi du manchon, et un verrou le maintient en position fermee. 24. Dans un systeme conforme aux alineas 6 et 22, la fente tra– 5 verse obliquement le manchon, et le reste de 1 ss alesage est ferme. 25. Dans un systeme conforme a l'alinea 6, il y a un manchon ae recouvrement mobile pour recouvrir la fente laterale. / 26. Dans un systeme conforme a l'alinea 6, pour la fixation d'un element de jonction tendu dans les deux directions, le dispositif 10 est a serrage double ou multiple,ou a chacune des deux extremites d'une chambre traversante, des ressorts sont montes, avec la piece de serrage associee, en direction d'action opposee. / 27. Dans un systeme conforme a 1'alinea 6, il y a un appendice d'arret pour la fixation a un mat ou a quelque autre point 15 fixe. / 28. Dans un systeme conforme a l'alinea 7, une fente d'introduc– tion et une fente de sortie debouchent a angle obtus dans la chambre du tendeur. 29. Dans un systeme conforme a l'alinea 7, un organe de commande 20 se presente comme un coulisseau faisant saillie sur toute la longueur du tendeur, avec des pieces de prise laterales, et les pieces de serrage sont montees mobiles sur le coulisseau, de sorte qu'il y a possibilite de basculage de ces pieces dans un plan perpendiculaire a la surface de la ceinture. 25 30. Dans un systeme conforme a l'alinea 7, les pieces de serrage r sont dessinees en profiles plats, ou, en profil, une tete elargie se raccorde a une surface de contact cannelee tournee vers la ceinture, et qui, au–dela d'une queue plus mince, se termine par une bille de positionnement a l'extremite de la piece de serrage.>– 31. Bans un systeme conforme a l'alinea 7, le tendeur est constitue en fermoir double, avec deux jeux de pieces de serrage,ressorts, fentes d'introduction et de sortie, de sorte que chacune des pieces de la ceinture permet un raccour– cissement et un serrage auto–verrouillant, a moins qu'un jeu de pieces de serrage soit agence a une hamjpe fixee a une piece de la ceinture, et l'autre, a l'autre piece de celle–ci. / 31. Dans un systeme conforme aux alineas 7 et 30, dans chaque jeu de pieces de serrage, la piece du milieu est piriforme, et les pieces, exterieures on un profil plat. 33. Dans un. systeme conforme aux alineas 7 et 30, des bandes de tole mince, coudees, sont accrochees aux queues des pieces de serrage, et sont reliees a un coulisseau de commande mobile sur le cote superieur du tendeur. 34. Systeme de raccordement amovible de plusieurs conducteurs electriques, conforme au premier alinea, caracterise par un certain de nombre de pieces en forme de manchon, placees a certains intervalles les unes des autres, presentant chacune un alesage interieur de part en part, et deux alesages obliques debouchant au voisinage de l'une des ouvertures frontales des alesages interieurs, ainsi qu'un ressort dans chacun de ceux–ci; – par des pieces de serrage fixees chacune aux deux extremites frontales de–' ressorts, qui les pressent contre les ouvertures frontales; – enfin par un domino en matiere synthetique, ou 5 sont loges les corps ou pieces en forme de manchon. 35. Dans un systeme selon le premier alinea, les chambres ren– fermant les pieces de serrage et les extremites des conducteurs electriques que l'on y enfonce, sont montees directement dans le boitier d'un appareil electrique. / 10 36. Dans un systeme de raccordement amovible de plusieurs con– ducteurs electriques, conforme aux premier alinea, plusieurs corps conducteurs en forme de plaque, qui presentent des alesages, des chambres, des ressorts et des pieces de serrage, sont separes electriquement les uns des autres par des plaques en matiere syn– 15 thetique, et saisie dlun seul tenant par un cadre commun en matiere synthetique; les corps conducteurs plats relient des alesages interieurs determines aux pieces de serrage individuelles, conduisant dans le bloc les unes avec les autres. S 37. Dans un systeme de raccordement amovible de plusieurs conduc– 20 teurs electriques, conforme au premier alinea, le s alesages inte– rieurs contenant les ressorts vont d'une paroi laterale d'un bloc en un materiau conducteur, jusqu'a la paroi laterale oppcsee. / 38. Dans un systeme conforme aux alineas 1 et 36, le bloc con– ducteur e and t de forme cylindrique, et les alesages obliques sortent 25 de la surfacede sa gaine • 39. Systeme conforme a l'alinea 36, ou, dans les corps en forme de plaque, des fentes courent parallelement aux alesages inte– rieurs, qu'elles coupent; une tige de commande des ressorts et des pieces de serrere traversant ces corps de part en part a travers 1 'ensemble des alesages interieurs, y coulisse. 40. Dans un systeme selon le premier alinea, un dispositif de commande est constitue par;une source d'un agent pressurise, par le moyen duquel un courant de pression est cree dans l'alesage ou sont les ressorts, et fait reculer la piece de serrage malgre le ressort de celle–ci. ‘ 41. Dans un systeme conforme a 1'alinea 40, la chambre, commune a l'alesage interieur et a l'alesage oblique, laquelle contient la piece de serrage, communique d'un cote avec une ouverture d'amenee servant \ l'admission de l'agent de compression, et de l'autre cote, vec un event servant a 1'evacuation du meme agent; un retreo. ssement formant buse de venturi est place dans la direction du courant, en avant de la chambre., 42. Dans un system ' conforme a l'alinea 39 pour le raccordement de faisceaux de cables ou autres extremites de fils multiples, les chambres sont reliees par des canaux de facon a rendre pos– sible la commande simultanee d'un grand nombre de pieces de commande • /" 43. Dans un systeme conforme a l'alinea 39, les extremites des fils sont saisies dans des fiches en gouttiere ou en cuiller, qui sont introduites dans les chambres, et maintenues en auto–verrouil– lage par les pieces de serrage. / 44. Systeme de contact electrique conforme au premier alinea, ou, d ns la: ongueur de la chambre et dans la paroi de celle–ci, il y a une "bande conductrice electrique sur laquelle est raccordement electrique a coupler. 45ss ysteme conforme a l'alinea 44» ou, dans une

de serrage en domino, il y a deux rangees voisines de chambres dans le coprs commun, et les chambres respectivement opposees elon un angle aigu ouvert dans la direction d1introduction, tandis que les bandes conductrices ont une forme generale en V et reliant le s/une s avec les autres les chambres qui. se font;6, Dans un systeme conforme a l'alinea 44, l'alesage oblique par rapport a l'axe de la chambre qui recoit la piece de serrage, est une chambre fermee vers l'exterieur, pour recevoir 1'extremite introduite du conducteur. 47. Dans un systeme conforme a l'alinea 44, une levre estampee dans la bande conductrice, a l'entree de la chambre suivante, recoit l'extremite du conducteur. 48. Dans ce meme systeme, la bande conductrice est tiree dans la paroi de la chambre suivante.y 49. Dans ce meme systeme, la piece de serrage presente un alesage transversal a 1'extremite introduite du conducteur, et un element de commande peut y etre introduit pour deverrouiller l'extremite du conducteur. 50. "Dans un systeme,–elon l'alinea. 49» l'element de commande est une qui s'etend dans 1'alesage de la piece de serrage et est guidee dans les fentes dirigees selon l'axe de la chambre conte– nant la piece de serrage. z 5'1. "Dans un systeme conforme a l'alinea 45» tous les corps de serrage de chaque rangee, avec leurs alesages, sont enfiles, avec un certain intervalle, chacun sur une tige; la tige en matiere synthetique presente des renflements pour le maintien des intervalles des pieces de serrage, et elle est maintenue rotative dans les nieces de serrage. z 52. Dans un systeme conforme a l'alinea 51, il y a un coulisseau glissant dans chacune des entailles du corps de serrage en domino, qui agit sur les deux tiges portant les pieces de serrage, s'eten– dant,avec un certain intervalle entre elles, dans la direction longitudinale du domino de raccordement, de sorte qu'en manoeuvrant dans une premiere direction, les pieces de serrage qui s'y rappor– tent, sur le premier cote du domino, sont mises en jeu; dans l'autre direction, ce sont les pieces de serrage opposees. 55. Dans un systeme conforme a l'alinea 44, la bande conductrice est logee dans une rainure de la paroi de sa chambre, 54. Dans yn systeme conforme a l'alinea 44» la bande conductrice presente une creusure dirigee dans la longueur de l'extremite du conducteur, qu'elle recoit. BUGNION – UBAF S. A. B. P. 4038 NLONGKAK– YAOUNDE/CAMEROUN [Source: Claim 1] ***** WARNING: OCR DATA – DESCRIPTION AND CLAIMS MAY OVERLAP *** *** Please email the Publication Number to Patbase@rws.com of affected Any text for review ***** RE SUMS removable connection and fastening Systeme flexible junction Elements and electric conductors, OII a clamping part has spring, guided in a chamber of a housing, locks, even between her and the wall of the bedroom, 1 'element of junction 5 or eonducteur electric, and presenting, isolation or in combination, the following inventive characters: 1. the chamber is formed by the meeting of two bores rejoingnant a sharp angle, thanks which the spring that holds the swing tightening guide is room in one of the bores, 10 and 1 'element junction, or the electric conductor in the other bore. / 2, the spring biasing the clamping pieces is a spring coil is wound into cone, and at one end of which is accorche the clamping pieces, which presents a tail widening. 15 5. For the unlocking or the introduction of an element of junction, it provides for a mobile command button, by which the clamping pieces can be called backward despite the spring has button Din Annex. 4. To insure against unforeseen release, 1'auto verrouilla– 20–ge control knob is under the action of a spring and / or a magnet, runs transversely to the spring force has boudin Annex to the clamping pieces, and the button is held by a closure farce or form. / 5 5. A tensioning device is detachably fixed, with 1'element fixing means outgoing junction of the chamber 25 which contains the clamping part. 6. the case presents a permanently open slot, or can be masked, and that extends to 11exterieur until the chamber enclosing the clamping pieces. 7. The system is a tensioner seat belts, while in a wide cross–section rectangular room, more clamping parts are rows beside each other, and block the self locking in safety belt. – 8. the collar of the clamping pieces is articulated mobile on a slide that slides into the bore or is spring, and is fixed to the control knob. 9. For the connection of two Elements junction, two bores angular spacing of 180 degrees result in the room or is instead a spring coil has a double cone turns, each of which carry the ends a clamping pieces; at least one longitudinal slot is provided in the sheath of the case, and a control button can move it. 10. In the system corresponding to paragraph 3 'tail of the clamping pieces is entered by the extremity, bent in the noose of a guide wire through a slot to the button. / 11. In the system conforming to paragraph 1, there are two bores opposed, at the tip of the alesagui receives the spring; a hook is anchored there by its extremity, and the extremity of the S hook protruding on the inside of the bore, serves as headquarters of "Thrust for the spring. / 11. Pans the system conforms to 11 paragraph 9, the case presents two diametrically opposed slots and extending up to the room which receives a compression spring, and the bore contains a guide part has pins projecting externally through the slot, and External ends of which are mounted the elements of order. 13. z " 'years the system conforms to paragraph 8, at the tip of the tail of the clamping niece, a support pin was expected transverse to the tail, and is movable, articulated in a groove of the slide. / 14. bans the system conforms to paragraph 4, the control knob is axially movable and tiltable in a notch of the sheath of the system, or the wall of the notch situated in the direction of the release of control button order.presente encoulisse profiles of notches. / 13. In a system according to 1'alinea 5 »the tensioning device comprises a lever arm terminating, at one of its ends, by a fork and, in its part fork, there are pins which are received in lew BORE opposed the boit40ti or in a spindle perpendicular to the longitudinal axis of the housing present, has one of its ends, a look–in which can be pushed one of the branches of the range of the above lever, and whose other end is surrounded by the second leg of the fork, contoured thereto, 16. in the system conforms to paragraph 15 "lever presents a laterally open slot into which can be introduced 1'element junction, and which a clamping system consisting of a leaf spring and a clamping pieces is planned for the joining element. 17. In the system complies with paragraphs 5 and 15, the lever is fitted with a clamping system having a sleeve with a spring roll, a clamping pieces and a command button. / 18In a system conforming to paragraph 5, the tensioning device for fixing the cable, possesses a clamping eccentric or appendix has more windings. 19. In a system conforming to paragraph 6, a chamber receiving the clamping oiece in its open position is planned from the extremity of the bore inside shrunk, has the positive terieur the housing obliquely relative to the bore. / • '20. in a system conforming to paragraph 6, the pressure surface of the clamping pieces wife 1'element junction, or has a concave profile, so that the element junction in the locked state, can not escape laterally in the direction of the slot. z 21. A pierce ns a system conforming to paragraph 6, the slot is comic labyrinth, to prohibit 1'element a junction up slipping outwards. 22. In a system conforming to paragraph 6, the case is a sleeve of U cross–section, the open side may be mask by a cover. // 23. In a system complies with paragraphs 6 and 23 "cover slips into a sleeve wall, and a latch holding it in closed position. 24. In a system complies with paragraphs 6 and 22, the work– 5 slot obliquely pays the sleeve,

and the remaining 1 ss bore is closed. 25. In a system conforming to paragraph 6, there is a recovery ae mobile sleeve for covering the lateral slot. / 26. In a system conforming to paragraph 6, for fixing a connecting element stretched in both directions, the device 10 is a double or multiple clamping, or each of the two ends of a through room, springs are mounted, with the associated clamping pieces in the direction of opposite action. / 27. In a system conforms to 1'alinea 6, there is a stop appendix for fixing a mat or some other fixed point 15. / 28. In a system conforms to paragraph 7, an introduction slit and an exit slit open at an obtuse angle in the chamber of the tensioner. 29. In a system conforms to paragraph 7, a controller 20 is presented as a slide projecting over the length of the tensioner, with parts of lateral grip, and clamping parts are mobile montees on the slide, so that there is possibility of these parts rocking in a plane perpendicular to the surface of the belt. 25 30. In a system conforms to paragraph 7, the r clamping parts are dessinees flat profiles or in profile, an enlarged head is connected to a contact surface cannelee tour to the belt, and that, over and beyond a thinner tail ends with a positioning ball at the tip of the clamping pieces and gt; –. 31. Bans a consistent system to paragraph 7, the tensioner is double clasp with two clamping parts of games, springs, insertion slots and output, so that each of the pieces belt allows a shortening and a self–locking clamp, unless a set of clamp parts or agency a fixed hamjpe has a room of the belt, and the other to the other pieces of it. / 31. In a system complies with paragraphs 7 and 30, in each set of clamping pieces, the middle room is pear–shaped, and the parts, External is a flat profile. 33. In a. system complies with paragraphs 7 and 30, strips of thin sheet metal, cubits, hang on the tails of the clamping parts, and are connected to a mobile control slide on the upper side of the stretcher. 34. removable terminal Systeme several electrical conductors, according to the first paragraph, characterized by a certain number of sleeve–like parts placed at intervals from one another, each presenting an interior bore through and through, and two oblique bores opening adjacent one of the end openings of the inner bores, and a spring in each thereof; – By clamping parts fixed to each two ends de– 'springs, which press against the front openings; – Finally, a domino in synthetic material, or 5 boxes are the body or sleeve shaped parts. 35. In a system according to the first paragraph, the encounter bedrooms closing clamping parts and the ends of electrical conductors which are inserted therein, are mounted directly in the housing of an electrical device. / 10 36. In a removable connecting system of several con– electrical conductors, comply with the first paragraph, more conductive plate–shaped body, which have bores, rooms, springs and clamping parts are electrically separated the each other by plates in matters syn– 15 thetic and seizure dlun one piece by a common framework synthetic material; flat conductive bodies connecting bores Interior determined individual clamping parts, resulting in the block with each other. S 37.In a removable connecting system of several electrical conductors 20 ers, according to the first paragraph, the s BORE inte– laughing containing the springs range from a side wall of a block of conductive material, up to the side wall oppcsee. / 38. In a system complies with paragraphs 1 and 36, the conductor block e t and cylindrical, and obliques BORE 25 out of its sheath surfacede 39. • System conforms to paragraph 36, or, the plate–shaped body, slits run parallel to the bores inte– laughing, they intersect; a control rod springs and parts of serrere through the body from side to side through one set of internal bores, slide it. 40. In a system according to the first paragraph, is a control device is by; a source of a pressurizing agent, by means of which a pressure is created in the current boring or are the springs and alleviates the room clamping despite the spring thereof. '41. In a system conforms to 1'alinea 40, the room, the municipality bore interior and the oblique bore, which contains the clamping pieces, communicates on one side with an opening for people brought \ l admission of compression agent, and on the other side, ith an event for 1'evacuation has the same agent; a retreo. ng the venturi nozzle is placed in the current direction, in front of the chamber. 42. In a system 'in conformity to paragraph 39 for connecting cables or other extremities son multiple beams, the rooms are connected by channel way to make possible the simultaneous control of a large number of control rooms • / "43. in a system conforms to paragraph 39, the ends of the son are entered in sheets or in gutter spoon, which are introduced in the rooms, and maintained self–locking by the clamping pieces / electrical contact 44. System according to the first paragraph, or, for the ns. ength of the room and into the wall thereof, there is an "electrical conductive strip on which electrical connection has coupling. 45 ss ystem conform to paragraph 44 ", or in a clamping domino, there are two neighboring rows of rooms in the common coprs, and the rooms OPPOSING ccording respectively an acute angle open in the direction d1introduction while conductive strips have a general V–shape and connecting the s / s with a other rooms that. are; 6 In a system conforms to paragraph 44, the oblique bore relative to the axis of the chamber that receives the clamping room is an enclosed room to the outside, to receive 1'extremite introduced the driver. 47. In a system conforms to paragraph 44, a lip estampee in the conductive tape at the entrance to the next room, receives the extremity of the driver. 48. In this same system, the conductive strip is tiree in the wall of the room suivante.y 49. In this same system, the clamping coin depicts a cross bore has introduced 1'extremite driver, and a control element can will be introduced to unlock the extremity of the driver. 50. "In a system, –elon the paragraph. 49" control element is one that extends in 1'alesage the clamping pieces and is guided into the slots being managed according to the axis of the tale room.. – ing clamping pieces z 5'1 "in a system conforms to paragraph 45" all clamp bodies of each row, with their bores, are strung with a certain interval, each on a rod; the stem synthetic material present bulges for the maintenance intervals of the clamping parts, and is kept rotating in the clamping nephews. z 52. In a system conforms to paragraph 51, there is a slide sliding in each of the slots of the clamp body domino, which acts on the two rods supporting the clamping parts, will extend ever, with a certain interval between them in the longitudinal direction of domino connection, so that maneuvering in a first direction, the clamping parts therein tent rapporteurs, on the first side of the domino, are brought into play; in the other direction, it is the opposed clamping parts. 55. In a system conforms to paragraph 44, the conductive strip is housed in a groove in the wall of his room 54. yn system conforms to paragraph 44 "the conductive strip presents a recess directed in length the extremity of the driver, she receives. BUGNION – UBAF S. A. B. P. 4038 NLONGKAK– YAOUNDE / CAMEROON

0) US4854426A – HANDBRAKE COMPENSATOR FOR MOTOR VEHICLES

7) Family number: 18858374 (US4854426A) © PatBase

Title: HANDBRAKE COMPENSATOR FOR MOTOR VEHICLES

Priority: ES19870002034 19870710

Family:

Publication number	Publication date	Application number	Application date
DE3819177 A1	19890119	DE19883819177	19880606
ES2004746 AF	19890201	ES19870002034	19870710
FR2617784 A1	19890113	FR19880009119	19880701
FR2617784 B1	19930820	FR19880009119	19880701
GB2207207 A1	19890125	GB19880016450	19880711
GB2207207 B2	19910213	GB19880016450	19880711
GB8816450 A0	19880817	GB19880016450	19880711
IT1219339 A	19900503	IT19880067497	19880527
IT8867497 A0	19880527	IT19880067497	19880527
JP1030871 A2	19890201	JP19880171701	19880708
JP64030871 A2	19890201	JP19880171701	19880708
SE8801685 A	19890111	SE19880001685	19880504
SE8801685 A0	19880504	SE19880001685	19880504
SE8801685 L	19890111	SE19880001685	19880504
US4854426 A	19890808	US19880209857	19880622

Probable Assignee: PUJOL AND TARAGO

Assignee(s):(std)**:** PUHORU Y TARAGO SA ; PUJOL AND TARAGO ; PUJOL TARAGO SA ; PUJOL TARRAGO SA ; BUJOL AND TARRAGO SA ; PUJOL Y TARRAGO SA

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International class (IPC 8–9): B60T11/04 B60T11/06 F16G11/12 (Advanced/Invention) ; B60T11/00 F16G11/00 (Core/Invention)

International class (IPC 1–7): B60T11/04 B60T11/06 B60T17/18 B60T7/08 E04B1/62 F16D65/44 F16G11/12

CPC: Y10T74/20408 B60T11/06 B60T11/046 F16G11/12

European class: B60T11/04D B60T11/06 F16G11/12

US class: 188/196.00M 188/196M 74/501.50R 74/501.5R

Classification Explorer

Cited documents: US4235046 A, US3333660 A, US2249220 A, FR2443358 A1, FR2428280 A1, DE2923318 A1, DE2853111 A1, DE2750904 A1,

Forward Citations: WO9830433, US8631911, US8179776, US5386887, US5222413, US2011094838, FR2737320, FR2709846, EP1453709, EP0582934, DE102007037671,

Abstract:
Source: US4854426A A handbrake compensator for a motor vehicle includes a support having a tubular body

receiving a spring and two opposing flanges. The support is connected to a load distributor element which transmits load from a primary cable to a secondary cable connected to a wheel. The load distributor element has two opposing wings provided with elongated slots which receive a cap screw which connects the load distributor element to the support. One of the slots has toothed edges so that the screw can be moved axially of the support to adjust the position of the load distributor element relative to the spring to thereby adjust tension of the cables.

0) US6457754B – CABLE LOCK WITH SECURITY INSERT

8) Family number: 29986966 (US6457754B) © PatBase

Title: CABLE LOCK WITH SECURITY INSERT

Priority: US19980092392P 19980710 US20000524142 20000310 WO1999US15616 19990709

Family:

Publication number	Publication date	Application number	Application date
AU199952107 A1	20000201	AU19990052107	19990709
AU199952107 A5	20000201	AU19990052107	19990709
EA003116 B1	20030227	EA20000000939	20001013
EA200000939 A1	20011022	EA20000000939	20001013
US6457754 BA	20021001	US20000524142	20000310
WO0002789 A1	20000120	WO1999US15616	19990709

Probable Assignee: AMERICAN CAPITAL FINANCIAL SERVICES INC

Assignee(s):(std)**:** BRAMMALL INC ; BYSTRY JERRY A ; HAMILTON ERIC K ; TYDENBRAMMALL INC

Assignee(s): WELLS FARGO BANK NATIONAL ASSOCIATION ; AMERICAN CAPITAL FINANCIAL SERVICES INC ; TELESIS TECHNOLOGIES INC ; TYDEN CAYMAN HOLDINGS CORP ; TYDEN GROUP HOLDINGS CORP ; TYDEN GROUP INC ; TYDEN SEAL CO INC

Inventor(s):(std)**:** BYSTRY JERRY A ; HAMILTON ERIC K ; JERRY A BYSTRY ; ERIC K HAMILTON

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

International class (IPC 8–9)**:** E05B39/02 F16G11/04 F16G11/10 G09F3/03 (Advanced/Invention)

International class (IPC 1–7)**:** B65D27/30 E05B39/02 G09F3/03

CPC: Y10T292/48 Y10T292/502 G09F3/0352 F16G11/101 F16G11/108 F16G11/14

European class: F16G11/04 F16G11/10 G09F3/03A6B

US class: 292/307.00R 292/307R 292/323

Classification Explorer

Cited documents: WO8401847 A1, US6155617 A, US5884949 A, US5647620 A, US5611583 A, US5582447 A, US5538300 A, US5417400 A, US5352003 A, US5092641 A, US4981314 A, US4747631 A, US4640538 A, US4628715 A, US4157653 A, US4074916 A, US4049303 A, US3770307 A, US1950893 A, GB1490721 A,

Forward Citations: WO17039428, WO13116429, US9558682, US8065843, US2013200637, US2011012377, US2008196326, GB2514279, CN104508323, CN104508323,

Abstract:
Source: US6457754B A cable lock includes a security insert to help prevent tampering with the internal components of the cable lock. The security insert may include a pair of side panels oriented generally parallel to each other and an end panel oriented generally perpendicular to the side panels. The security insert fits between an inner and outer member which are both made of relatively soft metal, such as aluminum or zinc casting. The security insert is made of a harder material, such as steel, which is resistant to drilling. The security insert surrounds a locking mechanism that may include a disc positioned on an angled incline.

0) US8584324B – MOBILE CABLE HOLDER

9) Family number: 55159051 (US8584324B) © PatBase

Title: MOBILE CABLE HOLDER

Priority: US20090219258P 20090622 US20100315360P 20100318 US20100821059 20100622 US20110050863 20110317 US20100315364P 20100318 US20110431670P 20110111 US20120348524 20120111

Family:

Publication number	Publication date	Application number	Application date
US8584324 BA	20131119	US20100821059	20100622
US8756767 BA	20140624	US20110050863	20110317
US8850669 BA	20141007	US20120348524	20120111

Probable Assignee: HUBBELL INC

Assignee(s):(std)**:** BALDWIN JEFFREY P ; CLEGHORN RICHARD L ; DIETERLE IVEN ; DUMPE SAMUEL ; HUBBELL INC ; SHOTEY MARCUS J ; MONCUR AARON ; KLEIN JOHN

Assignee(s): TAYMAC CORP

Inventor(s):(std)**:** BALDWIN JEFFREY P ; CLEGHORN RICHARD L ; DIETERLE IVEN ; DUMPE SAMUEL ; KLEIN JOHN ; MONCUR AARON ; SHOTEY MARCUS J

Agent(s): MARCUS R; MARK S; ALFRED N

International class (IPC 8–9): B65D67/02 F16B2/10 F16G11/00 F16L3/10 F16L3/23 (Advanced/Invention); F16B45/02 F16B45/04 (Advanced/Non–invention)

CPC: F16L3/1075 F16L3/1041 F16L3/23 B65D67/02 H02G3/32 Y10T24/14 Y10T24/394 Y10T24/3947 Y10T24/3956

US class: 24/132R 24/132WL 24/134L 24/134R 24/16R 24/599.3 24/600.7 24/601.6

Classification Explorer

Cited documents: US7900324 BB, US772468 A, US766263 A, US7500643 BB, US6898825 BA, US677627 A, US6742223 BA, US6101684 A, US5729872 A, US5349779 A, US5317788 A, US5293669 A, US5228174 A, US5210911 A, US5083741 A, US5056248 A, US4991265 A, US4958791 A, US4956897 A, US4870722 A, US4669688 A, US4650925 A, US4511164 A, US4483556 A, US4380101 A, US4361938 A, US4340998 A, US4278042 A, US4123095 A, US3953911 A, US3910280 A, US3859693 A, US3660869 A, US3654668 A, US3574900 A, US3530543 A, US3429985 A, US3310852 A, US28669 A, US2010201144 AA, US1806163 A, US1725609 A, US132247 A, US1014118 A,

Forward Citations: CN104948839,

Abstract:
Source: US8584324B A device holder including a body having a receiving opening, an arm having an engagement member for releasably securing the engagement member within the receiving opening, a hinge rotatably connecting the body and the arm, a spring communicating with the arm and the body, and wherein the spring biases the arm and the body into a closed position.

0) US6216555B – SERVICEABLE CORE ADJUST

10) Family number: 11104453 (US6216555B) © PatBase

Title: SERVICEABLE CORE ADJUST

Priority: CA19972201655 19970403 US19960655391 19960530 US19970889872 19970708

Family:

Publication number	Publication date	Application number	Application date
CA2201655 AA	19971130	CA19972201655	19970403
CA2201655 C	20011002	CA19972201655	19970403
EP0810379 A2	19971203	EP19970200952	19970401
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JP2963412 B2	19991018	JP19970141364	19970530
MX9703877 A1	19980628	MX19970003877	19970527
US6216555 BA	20010417	US19970889872	19970708

Probable Assignee: TECHNOLOGY HOLDING CO

Assignee(s):(std)**:** TELEFLEX INC

Assignee(s): TEREFURETSUKUSU INC ; MALONE DAVID ; TECHNOLOGY HOLDING CO

Inventor(s):(std)**:** MALONE DAVID

Inventor(s): DAVID MALONE ; DEIUITSUDO MAROON

Agent(s): SMART AND BIGGAR

Designated states: DE ES FR GB IT

International class (IPC 8–9)**:** F16C1/10 F16C1/14 F16C1/22 F16G11/12 (Advanced/Invention); F16C1/10 F16G11/00 (Core/Invention)

International class (IPC 1–7)**:** F16C1/10 F16C1/14 F16C1/22 F16G11/12 G05G1/24 H04M1/00

CPC: Y10T74/2045 Y10T74/20462 F16C1/223 F16C1/14 F16C2326/20

European class: F16C1/14 F16C1/22C

US class: 74/502.4 74/502.6

Classification Explorer

Cited documents: US5605074 A, US5598743 A, US5596908 A, US5590567 A, US5588334 A, US5571237 A, US5531134 A, US5477745 A, US5435202 A, US5394770 A, US5295408 A, US5163338 A, US5161428 A, JP6147215 A2, FR2708683 A1,

Forward Citations: WO0153709, US8215202, US8082694, US7735923, US7429081, US7367622, US7334498, US7146875, US6918316, US6595080, US2010275715, US2008244982, US2007057553, US2007057552, US2006236804, US2004016181, KR100931321, JP2005147393, FR2885107, ES2160537, EP2543527, EP1717461, EP1500831, EP1500831, DE19830754, DE102008034844,

Abstract:
Source: US6216555B A motion transmitting remote control assembly for transmitting motion in a curved path comprising a flexible motion transmitting core element (12) movably supported by a conduit (14). An adjustment mechanism is disposed on the end of the core element (12) for adjusting the length of the core element (12) and includes a slider member (18) attached to one end of the core element (12) and presenting slider teeth (20) on the exterior thereof and a housing (22, 122) slidably supporting the slider member (18) for movement along the longitudinal axis and adapted for connection to a control member (25). The housing (22, 122) has a bottom (26) and an opening extending upwardly from the bottom (26) and surrounded by sides (28) parallel to the longitudinal axis and first (30) and second (32) ends extending transverse to the longitudinal axis and a locking button (34, 134) is supported in the opening in the housing (22, 122) for moving between an unlocked position (Fig. 6) in which the slider member (18) may slide freely relative to the housing (22, 122) and a locked position (Fig. 1) in which the slider member (18) is prevented from sliding relative to the housing (22, 122). The locking button (34, 134) is U–shaped and presents button teeth (36) on the interior thereof for engaging the slider teeth (20) in the locked position. The assembly is characterized by the locking button (34, 134) including release tabs (38, 40) engaging the first and second ends (30, 32) of the opening in the housing (22, 122) for retaining the locking button

(34, 134) in the locked position in the housing (22, 122) and for releasing the locking button (34, 134) from the locked position in the housing (22, 122) in response to forces applied thereto in a direction parallel to the longitudinal axis.

0) US4294429A – PULLEY ASSEMBLY FOR IMPROVING THE COOPERATION B...

11) Family number: 1361224 (US4294429A) © PatBase

Title: Pulley assembly for improving the cooperation between a winch and a cable actuated thereby

Priority:

AU19790049814 19790810	AU19790049842 19790813	FR19790014188 19790601
FR19780024359 19780822	CA19790334222 19790821	CA19790335355 19790910
GB19790028998 19790821	GB19790029136 19790821	JP19790104713U 19790729

Family:

Publication number	Publication date	Application number	Application date
AU197949814 A1	19800228	AU19790049814	19790810
AU197949842 A1	19810219	AU19790049842	19790813
AU4981479 A1	19800228	AU19790049814D	19790810
AU530631 B2	19830721	AU19790049814	19790810
BE878222 A	19791203	BE19790196715	19790813
BE878222 A1	19791203	BE19790196715	19790813
BR7905317 A	19800520	BR19790005317	19790817
CA1105920 A1	19810728	CA19790334222	19790821
CA1121794 A1	19820413	CA19790335355	19790910
CH630875 A	19820715	CH19790007329	19790810
CS216679 B2	19821126	CS19790005487	19790810
DE2931958 A1	19800306	DE19792931958	19790807
DE2931958 C2	19830127	DE19792931958	19790807
DE2937293 A1	19801218	DE19792937293	19790914
DE2937293 C2	19841108	DE19792937293	19790914
ES483462 A1	19800416	ES19790483462	19790817
FR2434111 A1	19800321	FR19780024359	19780822
FR2434111 B1	19820312	FR19780024359	19780822
FR2457834 A1	19801226	FR19790014188	19790601
FR2457834 B1	19830107	FR19790014188	19790601
GB2031364 A1	19800423	GB19790029136	19790821
GB2031364 B2	19830202	GB19790029136	19790821
GB2060107 A1	19810429	GB19790028998	19790821
GB2110632 A1	19830622	GB19820012413	19820429
GB2110632 B2	19840606	GB19820012413	19820429
IN152865 A	19840421	IN1979DE00570	19790807
IT1123525 A	19860430	IT19790025146	19790816
IT7925146 A0	19790816	IT19790025146	19790816
JP1058377 B4	19891211	JP19790104486	19790816
JP1457394 C3	19880909	JP19790115075	19790907
JP1577315 C3	19900824	JP19790104486	19790816
JP55060741 A2	19800508	JP19790104486	19790816
JP55161790 A2	19801216	JP19790115075	19790907
JP56021618 U1	19810226	JP19790104713U	19790729
JP62054756 B4	19871117	JP19790115075	19790907
MX148642 A	19830520	MX19790178928	19790815
SE421608 B	19820118	SE19790006919	19790820
SE421608 C	19820429	SE19790006919	19790820
SE7906919 A	19800223	SE19790006919D	19790820
US4294429 A	19811013	US19790066276	19790813

US4309139 A	19820105	US19800127977	19800306	
US4316602 A	19820223	US19790068812	19790822	

Probable Assignee: TRACTEL SA

Assignee(s):(std)**:** KISHU NEJI CO LTD ; TRACTE S A ; KISHI NEJI CO LTD ; TRACTEL SA

Assignee(s): TRACTEL S A BAGNOLET FR ; KISHU NEJI CO ; TRACTE SA ; TRACTEL S A ; TRACTEL S A 93170 BAGNOLET FR ; DESPLATS ANDRE

Inventor(s):(std)**:** ANDORE DESUPURA ; ANDRE DESPLATS ; DESPLATS A ; DESPLATS ANDRE ; NAKAE ISOJI

Inventor(s): A DESPLATS ; DESPLATS ANDRE BOULOGNE BILLANCOURT FR ; DESPLATS ANDRE FR ; ISOJI NAKAE

Agent(s): ROBIC ROBIC AND ASSOCIES ASSOCIATES

International class (IPC 8–9): B66B11/08 B66D1/58 B66D1/74 B66D3/04 F16B39/28 F16B39/282 F16G11/14 (Advanced/Invention); B66D1/00 B66D1/54 F16B39/00 F16G11/00 (Core/Invention)

International class (IPC 1–7): B23B3/00 B66B11/08 B66D1/00 B66D1/26 B66D1/28 B66D1/34 B66D1/48 B66D1/58 B66D1/74 B66D3/04 B66D3/06 B66D3/18 F16G11/12 F16G11/14 F16H55/50

CPC: B66D1/7415 B66D1/58 F16B39/282

European class: B66D1/58 B66D1/74D F16B39/282

US class: 104/173.1 104/230 254/270 254/272 254/287 254/333 411/187

Classification Explorer

Cited documents: US4220188 A, US4139178 A, US3949969 A, US3944185 A, US3666239 A, US3608389 A, US3405651 A, US3118635 A, US3078899 A, US2917278 A, US268068 A, US2662732 A, US2555501 A, US2147211 A, US1612955 A, US1355373 A, JP52114164 U1, JP52023473 U1, JP50130021 U1, JP40002500 A2, GB799014 A, GB524115 A, GB1379683 A, FR2307761 A1, FR2233269 A1, FR2036970 A1, FR1389136 A, FR1216411 A, DE627178 A, DE366667 A, DE2522033 A1, DE2307370 A1, CH546703 A, CH494704 A, CH119296 A, BE827486 A,

Forward Citations: WO13004663, US9790064, US9422140, US9198691, US8480714, US8382806, US8317160, US8147522, US8142481, US8097025, US8092504, US8066745, US8029539, US8016866, US8012185, US7717943, US7686835, US7662172, US7604655, US6102951, US6098962, US5887915, US5664796, US5474555, US5259269, US5205219, US5129626, US5071300, US4821842, US4811669, US4710081, US4557465, US2010204738, US2010179603, US2010152788, US2010063553, US2009163961, US2009095574, US2008312655, US2008071277, US2007123867, US2007043357, US2004240960, US2004149973, KR101226015, JP2005172237, GB2178716, FR2647427, FR2632374, FR2618421, EP0699620, EP0401099, EP0363800, EP0300892, EP0205004, EP0198409, DE19722867, CN103648960,

Abstract:
Source: US4294429A In this cable hoisting apparatus at least two pulleys disposed in a common plane have in the one a semi−circular−sectioned groove and in the other a V−shaped groove section, the first pulley receiving the load and the other pulley being responsive to the tightening mechanism controlled by the load. Thus, the pulley having a semi−circular sectioned groove will not damage the cable and the cable is retained therein by adherence, thus reducing as much the load exerted on the cable section engaging the second pulley, whereby a lesser retaining effort is exerted on this second pulley; when a pressure mechanism is provided for tensioning the cable in proportion to the load, said mechanism is associated with the pulley having the V−shaped groove.

0) EP0183589A1 – SELF–ADJUSTING CABLE CONTROL MECHANISM. DRAHTU...

12) Family number: 2185348 (EP0183589A1) © PatBase

Title: SELF–ADJUSTING CABLE CONTROL MECHANISM.

Priority: FR19840017374 19841114

Family:

Publication number	Publication date	Application number	Application date
AU198549856 A1	19860522	AU19850049856	19851113
AU592323 B2	19900111	AU19850049856	19851113
BRPI8505869 A	19860812	BR1985PI05869	19851114
DE3566571 D1	19890105	DE19853566571	19851106
EP0183589 A1	19860604	EP19850402138	19851106
EP0183589 B1	19881130	EP19850402138	19851106
ES548885 A0	19861201	ES19850548885	19851114
ES8701938 A1	19870301	ES19850548885	19851114
FR2573158 A1	19860516	FR19840017374	19841114
FR2573158 B1	19870123	FR19840017374	19841114
JP61180027 A2	19860812	JP19850253891	19851114
PT81478 A	19851201	PT19850081478	19851112
PT81478 B	19870930	PT19850081478	19851112

Probable Assignee: SOCIETE DES CABLES DU MANS SOCIETE ANONYME

Assignee(s):(std)**:** CABLES DU MANS SA SOC D ; MANS CABLES ; CABLES DU MANS SOC D SA ; BENDIX FRANCE

Assignee(s): BENDIX FRANCE SA ; ANONYME BENDIX FRANCE SOC ; BENDEIKUSU FR ; SOCIETE DES CABLES DU MANS ; SOCIETE DES CABLES DU MANS SOCIETE ANONYME ; SOCIETE DES CABLES DU MANS SA ; SOCIETE ANONYME DITE BENDIX FRANCE ; DES CABLES DU MANS SOC ; DES CABLES DU MANS ANONYME SOC ; DES CABLES DU MANS SA SOC

Inventor(s):(std)**:** CARRE JEAN JACQUES ; CARRE JENA JACQUES ; JIYAN JIYATSUKU KARE

Inventor(s): JEAN JACQUES CARRE ; JENA JACQUES CARRE

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD

Designated states: DE FR GB IT

International class (IPC 8–9)**:** F16C1/22 F16D23/12 G05G5/00 G05G7/10 (Advanced/Invention); G05G5/00 (Advanced/Non–invention); F16C1/10 F16D23/00 G05G5/00 G05G7/00 (Core/Invention)

International class (IPC 1–7)**:** B60K23/02 F16C1/16 F16C1/22 F16D13/75 F16D23/12 F16G11/00 F16G11/04 G05G5/00 G05G7/10

CPC: F16C2361/43 F16C1/226 F16C1/101

European class: F16C1/22

Classification Explorer

Cited documents: WO8401196 A1, US4717004 A, US4464950 A, US2957354 A, GB2088502 A1, EP0120616 A2, EP0055649 A1,

Forward Citations: US8671797, US6950633, ITMI20091888, FR2655098, FR2637333, FR2608799, EP2317165, EP0430787, EP0213857, DE3830672, CN104019117,

Abstract:
1. A mechanical control by cable, intended to be interposed between an actuating component (2) and a component to be actuated (3) provided with a return means (4), of the type comprising: a length of cable (1) arranged so as to slide axially inside a cable conduit (5) havone one end secured to a first tubular ferrule arrangement (7) arranged telescopically in a second tubular ferrule arrangement (8); first resilient means (19) biasing said ferrule arrangements (7, 8) axially away from one another; and releasable locking means (11, 12) arranged between said ferrule arrangements (7, 8) and displaceable between a locking position, firmly coupling

the ferrule arrangements and an unlocked position under the action of a control member (22) frictionally engaging said cable (1), characterized in that said locking means (11, 12) are normally biased towards their locking position by second axially acting resilient means (21), said control member (22) being movable relative to said locking means (11, 12) and normally cooperating with the latter, in a rest configuration of the mechanical control, against said second resilient means (21).

0) US4747631A – CABLE LOCKING AND SEALING DEVICE

13) Family number: 3698023 (US4747631A) © PatBase

Title: CABLE LOCKING AND SEALING DEVICE

Priority: CA19860509688 19860522 US19850813478 19851226 US19870005392 19870109

Family:

Publication number	Publication date	Application number	Application date
CA1272578 A1	19900814	CA19860509688	19860522
US4747631 A	19880531	US19870005392	19870109

Probable Assignee: AMERICAN CAPITAL FINANCIAL SERVICES INC

Assignee(s):(std)**:** BRAMMALL INC

Assignee(s): BYSTRY JERRY A ; GREEN ROGER J ; HADDIX JAMES A ; HORR RICHARD C ; PENICK CLARENCE A JR ; LOYNES LESLIE M ; AMERICAN CAPITAL FINANCIAL SERVICES INC ; BLEDSOE JACK E

Inventor(s):(std)**:** BLEDSOE JACK E ; BYSTRY JERRY A ; GREEN ROGER J ; HADDIX JAMES A ; HORR RICHARD C ; LOYNES LESLIE M ; PENICK CLARENCE A JR ; PENICK JR CLARENCE A

Inventor(s): PENICK CLARENCE A

Agent(s): SMART AND BIGGAR

International class (IPC 8–9): F16G11/04 F16G11/10 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7): F16G11/04 G09F3/00

CPC: G09F3/0352 Y10T24/3976 Y10T292/48 Y10T292/502 F16G11/02 F16G11/106 F16G11/14

European class: F16G11/04 F16G11/10 G09F3/03A6B

US class: 24/136A 292/307.00R 292/307R 292/323

Classification Explorer

Cited documents: US830565 A, US4074916 A, US3770307 A,

Forward Citations: WO9411265, WO07031730, WO0154101, WO0138756, WO0002789, WO0002789, USD553575, USD525110, USD521356, US9558682, US9127748, US8578566, US8171695, US8065843, US8001660, US7478847, US7293438, US7243963, US7172225, US7073828, US6719335, US6588812, US6457754, US6131969, US5820176, US5743574, US5647620, US5611583, US5538300, US5447344, US5352003, US5222776, US5092641, US4936612, US4917423, US4811978, US2013200637, US2013069375, US2011041292, US2011012377, US2010229493, US2009106947, US2008196326, US2007273161, US2007262593, US2007069528, US2006163886, US2006049646, US2006042329, US2005193783, US2005006910, RU2627437, RU2619047, RU2619045, RU2619042, GB2453756, GB2453756, GB2430234, GB2430234, EP1172781, EP0774598, DE4433250, DE10160165, CN104508323, CN104508323,

Abstract:
Source: US4747631A Cable locking and sealing device which has a body member to which one end of a cable can be attached with the other end free to pass through a hasp or other device to be sealed or locked and in which the free end can then be inserted into the body member and can be freely moved in a first direction into the body member but which is clamped so that it cannot be removed from the body member in a second direction. Within the body member there is provided an inclined ramp at a small angle formed with a plurality of gear teeth and a locking gear formed with gear teeth which mate with the gear teeth on the rack and is movable along the ramp so as to lock the second end of the cable to the body member when force is exerted on it to remove it from the body member.

0) GB1360533A – MECHANICAL ELECTRICAL OR HYDRAULIC CONNECTOR

14) Family number: 16550490 (GB1360533A) © PatBase

Title: MECHANICAL ELECTRICAL OR HYDRAULIC CONNECTOR

Priority: US19710163363 19710716

Family:

Publication number	Publication date	Application number	Application date
DE2220115 A1	19730125	DE19722220115	19720425
DE2220115 B2	19760909	DE19722220115	19720425
DE2220115 C3	19770421	DE19722220115	19720425
DE7215670 U	19721207	DE19720015670U	19720425
FR2146775 A5	19730302	FR19720025628	19720713
GB1360533 A	19740717	GB19720017874	19720418
JP51028431 B4	19760819	JP19720056149	19720607

Probable Assignee: OMNI SPECTRA INC

Assignee(s):(std)**:** OMNI SPECTRA ; OMNI SPECTRA INC

Inventor(s):(std)**:** KUBOTA JAMES ; ZAJAC DONALD MICHAEL

International class (IPC 8–9)**:** F16L19/03 F16L37/098 F16L37/12 (Advanced/Invention); F16L19/02 F16L37/00 (Core/Invention)

International class (IPC 1–7)**:** F16B21/00 F16G11/00 F16L19/02 F16L21/00 F16L37/00 F16L37/12 F16L37/22 H01R13/00 H01R13/54

CPC: F16L37/098

European class: F16L37/098

Classification Explorer

Forward Citations: WO9723704, WO8502518, US8336924, US6267416, US6237964, GB2475089, GB2475089, GB2323419, GB2323419, GB2197905, GB2197905, GB2139018, GB2130445, FR2942862, FR2634859, FR2532396, FR2515306, FR2232731, FR2232731, EP2236894, DE4420470, DE4420470, DE3825866,

Abstract:
Source: GB1360533A 1360533 Coaxial connectors OMNI SPECTRA Inc 18 April 1972 [16 July 1971] 17874/72 Heading H2E [Also in Divisions E2 and F2] A coaxial plug 502 and socket 503 are locked together by engagement of the ends of spring fingers 36 with the sloping sides 18, 28 of grooves 16, 27. The fingers 36 are carried by an axially sliding ring 504, which can be completely removed from the plug 502. When the plug 502 and socket 503 are to be uncoupled the ring 504 is pulled to the right, and the ends of the fingers 36 slide into the groove 16. As the ring 504 is moved further it brings the plug 502 with it. A cable 505 is attached to the plug by means of a sleeve 506. The socket 503 may be fixed to a panel 514 as shown, or may be attached to another cable. When the socket 503 is fixed the plug 502 can be connected and disconnected with one hand. The plug 502 comprises a pin 507, and the socket 503 a female contact 509, or vice versa. A ring 512 makes contact with the plug 502. A weather sealing gasket 513, which may be conductive, is provided. The ring 504 has finger grips 34. The locking arrangement can also be applied to mechanical and hydraulic couplings. The angles of the groove sides 18, 28 can be chosen to make unlocking easier or more difficult when the coupling is under tension (Figs. 3–6, not shown).

0) US6131969A – CABLE LOCK

15) Family number: 12603548 (US6131969A) © PatBase

Title: CABLE LOCK

Priority: US19990237700 19990126

Family:

Publication number	Publication date	Application number	Application date
US6131969 A	20001017	US19990237700	19990126

Probable Assignee: AMERICAN CASTING AND MFG CORP

Assignee(s):(std)**:** AMERICAN CASTING AND MANUFACTURI ; AMERICAN CASTING AND MFG

Assignee(s): AMERICAN CASTING AND MFG CORP

Inventor(s):(std)**:** NATKINS EPHRAIM

International class (IPC 8–9)**:** B65D63/06 F16G11/04 F16G11/10 G09F3/03 (Advanced/Invention); B65D63/00 F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7)**:** B65D27/30

CPC: G09F3/0352 B65D63/06 Y10T24/3969 Y10T292/48 Y10T292/498 Y10T292/502 F16G11/02 F16G11/106 F16G11/14

European class: B65D63/06 F16G11/04 F16G11/10 G09F3/03A6B

US class: 24/136R 292/307R 292/320 292/323

Classification Explorer

Cited documents: US5820176 A, US5647620 A, US5611583 A, US5568952 A, US5539961 A, US5538300 A, US5533238 A, US5352003 A, US5222776 A, US5092641 A, US4747631 A, US4640538 A, US4561437 A, US4049303 A, US3994521 A, US3770307 A, US3744098 A, US3017678 A, US2740654 A, US2629155 A, US2544086 A, US1660040 A, US1139595 A,

Forward Citations: WO10144988, WO06137722, WO03053127, WO03053127, USD784111, USD758838, USD758837, USD758836, USD758175, USD738187, USD736058, USD704033, USD684841, USD649011, USD639138, USD637471, USD623925, USD613578, USD578861, USD571637, USD553575, USD525110, USD521356, USD467795, US9558682, US9013306, US8814111, US8684892, US8578566, US8186731, US8171695, US8065843, US8001660, US7063362, US6948746, US6772483, US6741166, US6719335, US6588812, US6578886, US6540273, US6311531, US2017178546, US2014096574, US2013200637, US2011179833, US2011041292, US2011012377, US2010308606, US2010229493, US2010129595, US2009106947, US2009071211, US2008196326, US2006290147, US2006090525, US2005193783, TWI561719, EP1899234,

Abstract:
Source: US6131969A A cable lock comprising a housing having two longitudinal channels extending therethrough, a pocket at one end, and a cable having one end permanently locked within one channel. There is a spring disposed within the other channel, a cap disposed in the pocket to retain the spring and a gripping mechanism slidably disposed within the second channel adjacent the spring. The second channel is tapered toward the end nearest the gripping mechanism. The gripping mechanism is a substantially rectangular device having a plurality of gripping teeth arranged in two rows along its top edge to form a plurality of opposing tooth pairs. The gripping mechanism is also tapered to conform to the tapered channel in which it is disposed. There is a longitudinal concave channel for receiving the other end of the cable disposed on the top surface of the gripping mechanism between each pair of teeth and an angled front surface for leading the other end of cable into longitudinal concave channel. The spring exerts a preload on the gripping mechanism and the teeth grip the cable and allow the cable to be inserted into but not removed from the housing. The only way to release the cable from the housing is to cut the cable.

0) US5092641A – CABLE LOCKING AND SEALING DEVICE

16) Family number: 4944022 (US5092641A) © PatBase

Title: CABLE LOCKING AND SEALING DEVICE

Priority: US19910697590 19910509

Family:

Publication number	Publication date	Application number	Application date
US5092641 A	19920303	US19910697590	19910509

Probable Assignee: AMERICAN CAPITAL FINANCIAL SERVICES INC

Assignee(s):(std)**:** BRAMMAL INC

Assignee(s): BRAMMALL INC ; BRAMMALL INC A CORP OF IN ; WELLS FARGO BANK NATIONAL ASSOCIATION ; TYDEN GROUP INC ; TYDEN SEAL CO INC ; TELESIS TECHNOLOGIES INC ; TYDEN CAYMAN HOLDINGS CORP ; TYDEN GROUP HOLDINGS CORP ; AMERICAN CAPITAL FINANCIAL SERVICES INC

Inventor(s):(std)**:** PENICK JR CLARENCE A

International class (IPC 8–9)**:** B63B21/08 F16G11/10 (Advanced/Invention); B63B21/00 F16G11/00 (Core/Invention)

International class (IPC 1–7)**:** B65D55/06

CPC: Y10S292/61 Y10T24/3976 Y10T292/48 F16G11/106 F16G11/14 B63B21/08

European class: B63B21/08 F16G11/10

US class: 24/136A 292/307R 292/DIG.61

Classification Explorer

Cited documents: US534706 A, US4747631 A, US4074916 A, US3770307 A, US3198290 A,

Forward Citations: WO9405930, WO03040497, WO03040497, WO0154101, USD553575, USD525110, USD521356, US9558682, US9127748, US8789485, US8578566, US8156771, US8001660, US6457754, US6131969, US5820176, US5647620, US5611583, US5352003, US2013220200, US2013200637, US2011041292, US2011012377, US2010229350, US2009106947, US2007262593, US2007069528, US2005209587, US2005193783, US2003152510, EP0774598, EP0667826, EP0667826, DE4433250,

Abstract:
Source: US5092641A A cable and locking and sealing device which has a body member to which one end of a cable is attached and the other end passes through a hasp so as to lock it and then the free end of the cable is inserted into the body member in a first direction, but it cannot be removed in the second direction. A disk rides upon a ramp to lock the second end so that it cannot be removed from the body member and in the present invention, a flexible O–ring of rubber or "NEOPRENE" or other flexible material serves as a spring to bias the disk upwardly along the ramp to lock the cable.

0) US5267373A – CABLE TIE WITH STRAP TIP GUIDE RAMP

17) Family number: 11049166 (US5267373A) © PatBase

Title: CABLE TIE WITH STRAP TIP GUIDE RAMP

Priority: US19920969498 19921030

Family:

Publication number	Publication date	Application number	Application date
DE4336371 A1	19940505	DE19934336371	19931025
DE4336371 B4	20040226	DE19934336371	19931025
JP3499264 B2	20040223	JP19930262037	19931020
JP6200984 A2	19940719	JP19930262037	19931020
US5267373 A	19931207	US19920969498	19921030

Probable Assignee: PANDUIT CORP

Assignee(s):(std)**:** PANDUIT CORP

Assignee(s): PANDUIT CORP TINLEY PARK ; PANDUIT CORP TINLEY PARK ILL US

Inventor(s):(std)**:** JIEI KURAAKU CHIZETSUKU ; CHISEK J CLARK ; CHISEK CLARK J

Inventor(s): CHISEK CLARK J HOMEWOOD ILL US

International class (IPC 8–9): B65D63/10 B65D63/12 F16G11/02 H02G3/30 (Advanced/Invention); B65D63/10 F16G11/00 H02G3/30 (Core/Invention)

International class (IPC 1–7): B65D63/12 B65D63/14 B65D63/16 F16G11/02 H02G3/26 H02G3/30 H02G3/32

CPC: Y10T24/1498 Y10T24/153 B65D63/1072

European class: B65D63/10B3P1

US class: 24/160PB 24/16PB 24/30.5P 24/305P

Classification Explorer

Cited documents: US4978091 A, US4955913 A, US4875647 A, US4735387 A, US4688302 A, US4413380 A, US4214349 A, US4136148 A, US3973293 A, US3967345 A, US3872547 A, US3761999 A, US3537146 A, DE1934590 B2, CH529460 A, CH529460,

Forward Citations: USD799125, USD781692, USD781136, USD779924, USD778710, USD751888, USD530600, US9321571, US8683659, US7779515, US6807714, US6332248, US6279203, US6003714, US5890265, US5784747, US5669111, US5636412, US5630252, US5593630, US5513421, US5440786, US2016214776, US2006254031, JP5050036, JP2014518814, JP2011094366, ITPD20130171, EP2815990, EP2202175, EP1561702, CN102421679,

Abstract:
Source: US5267373A A cable tie with a strap guide ramp includes a strap, a locking head secured to the first end of the strap, a plurality of walls on the locking head forming a strap positioning channel, a pawl positioned within the channel and pivotally mounted to the locking head and strap guide ramp contiguous to the pawl for directing the tip of the strap during initial insertion of the strap into the channel away from the pawl and towards the strap positioning channel. The strap guide ramp prevents plastic deformation of the pawl during insertion of the tip of the strap when the tip of the strap is inadvertently directed against the pawl which enhances the reliability of the cable tie and is especially useful for cable tie formed of less resilient materials.

0) GB1510593A – MONO–CABLEWAYS

18) Family number: 1193067 (GB1510593A) © PatBase

Title: MONO–CABLEWAYS

Priority: CH19750001194 19750131

Family:

Publication number	Publication date	Application number	Application date
AT348015 B	19790125	AT19760000597	19760128
AT59776 A	19780615	AT19760000597	19760128
CA1043284 A1	19781128	CA19760244616	19760130
CH596018 A	19780228	CH19750001194	19750131
FR2299200 A1	19760827	FR19760002661	19760130
FR2299200 B3	19781020	FR19760002661	19760130
GB1510593 A	19780510	GB19760003737	19760130
IT1053483 A	19810831	IT19760047884	19760130

Probable Assignee: STREIFF MATHIAS AG

Assignee(s):(std)**:** STREIFF AG MATHIAS ; STREIFF M AG ; STREIFF MATHIAS AG

Assignee(s): STREIFF MATHIAS ; MATHIAS STREIFF AG ; STREIFF AG M

Inventor(s):(std)**:** STREIFF MATHIAS

Inventor(s): ERFINDER HAT AUF NENNUNG VERZICHTET ; MATHIAS STREIFF

International class (IPC 8–9)**:** B61B11/00 B61B12/12 (Advanced/Invention); B61B12/00 (Core/Invention)

International class (IPC 1–7)**:** B61B11/00 B61B12/02 B61B12/12 B61B7/04 F16G11/00 F16G11/06

CPC: B61B12/12

European class: B61B12/12

Classification Explorer

Abstract:
Source: GB1510593A 1510593 Cable clamps MATHIAS STREIFF AG 30 Jan 1976 [31 Jan 1975] 3737/76 Heading D1T [Also in Division B7] A cable clamp assembly has a U–shaped clamp 1 in which is a saddle–shaped clamping element 4, the cable 9 being gripped therebetween. The clamp 1 may have ribs 18 that fit into the helical grooves between the individual wire strands. Screws 20 compress the cable 9 between the clamp 1 and the clamping element 4. This compression may be via springs to compensate for variations in the diameter of the cable under load.

0) GB2365915A – CABLE LOCK AND SEAL DEVICE

19) Family number: 14614996 (GB2365915A) © PatBase

Title: CABLE LOCK AND SEAL DEVICE

Priority: GB20000020131 20000817

Family:

Publication number	Publication date	Application number	Application date
GB200020131 A0	20001004	GB20000020131	20000817
GB200119683 A0	20011003	GB20010019683	20010813
GB2365915 A1	20020227	GB20010019683	20010813
GB2365915 B2	20040609	GB20010019683	20010813

Probable Assignee: BLOXWICH TRANSP ATION PRODUCTS

Assignee(s):(std)**:** BLOXWICH ENG ; BLOXWICH TRANSP ATION PRODUCTS

Assignee(s): BLOXWICH TRANSPORTATION PRODUCTS LIMITED ; BLOXWICH TRANSPORTATION PRODUCTS LTD ; BLOXWICH ENGINEERING LTD

Inventor(s):(std)**:** BROWN CLIVE ALBERT

Inventor(s): CLIVE ALBERT BROWN

International class (IPC 8–9)**:** F16G11/04 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7)**:** B65D33/34 F16G11/04 F16G11/14

CPC: F16G11/02 F16G11/108 F16G11/14 G09F3/0352

European class: F16G11/04 G09F3/03A6B

Classification Explorer

Cited documents: WO9318316 A1, US5222776 A, EP0861994 A2,

Forward Citations: WO06137722, FR2881560, EP1899234,

Abstract:
Source: GB2365915A A cable lock and seal device has a body 1 enclosing friction member 8 held by a spring 14 and having a through passage 21–22, and a flexible inextensible member 2 having one end 20 attached to the body, the opposite end 25 being adapted to pass through the passage and engage with the friction member 8 to prevent movement or withdrawal of the flexible member in the opposite direction. The body 1 comprises a cast or moulded casing 3 which is closed at one end and is open at the other end, and an end cover 7 adapted permanently to close the open end of the casing 3. One end of the flexible inextensible member 20 is attached to the casing 3 by being cast or moulded into the casing and is permanently connected thereto so that it projects from the closed end.

0) US3689974A – CABLE CLAMP AND APPARATUSES FOR ATTACHING AND F...

20) Family number: 1021370 (US3689974A) © PatBase

Title:	CABLE CLAMP AND APPARATUSES FOR ATTACHING AND FOR DETACHING THE CLAMP
Priority:	US19700086088 19701102

Family:

Publication number	Publication date	Application number	Application date
US3689974 A	19720912	US19700086088	19701102

Probable Assignee:	PRELUDE CORP
Assignee(s):(std)	PRELUDE CORP
Inventor(s):(std)	GIFFORD HOWARD W ; WHIPPLE WILLIAM D
Inventor(s):	WILLIAM D WHIPPLE ; HOWARD W GIFFORD
International class (IPC 8–9)	B63B21/08 F16G11/00 (Advanced/Invention); B63B21/00 F16G11/00 (Core/Invention)
International class (IPC 1–7)	A01K75/00 B23P19/04
CPC:	B63B21/08 F16G11/00 Y10T29/53526 F16G11/101
European class:	B63B21/08 F16G11/00
US class:	29/200D 29/819
Classification Explorer	
Cited documents:	US3368267 A, US3098289 A,
Forward Citations:	US4126850,

Abstract:
Source: US3689974A A releasable and lockably closing cable clamp has two clamp elements movable relative to each other between a release position and a cable–clamping closed position, and has a latch member movable between an unlatch position where the clamp elements are free for said relative movement and a latch position where it locks the clamp elements in the closed position.

0) DE2716825A1 – KABELPLOMBE CABLE SEAL INDICATING DISTURBANCE ...

21) Family number: 1645947 (DE2716825A1) © PatBase

Title: KABELPLOMBE CABLE SEAL INDICATING DISTURBANCE – HAS TWO BOXED BODIES WITH HOLES EITHER SIDE AND LOCKING CAM AND DISCS WITH SPRING INSIDE TO HOLD CABLE

Priority: DE19772716825 19770415

Family:

Publication number	Publication date	Application number	Application date
DE2716825 A1	19781019	DE19772716825	19770415
DE2716825 C2	19841108	DE19772716825	19770415

Probable Assignee: BRAMMALL INC

Assignee(s):(std)**:** BRAMMALL INC

Assignee(s): BRAMMALL INC ANGOLA IND US

Inventor(s):(std)**:** BUTLER GARY RAY ; IRVIN GEORGE

Inventor(s): IRVIN GEORGE FREMONT IND ; RAY BUTLER GARY ; BUTLER GARY RAY LAGRANGE IND

International class (IPC 8–9): F16G11/04 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7): G09F3/03

CPC: G09F3/0358 F16G11/048 F16G11/108

European class: F16G11/04 G09F3/03A6C

Classification Explorer

Cited documents: US3770307 A, US1577678 A, US1139595 A, DE314394 A,

Abstract:
Source: DE2716825A1 Anspruche Kabelplombe, gekennzei chne t durch einen Plombenkoerper (11,12) mit zwei parallelen Oeffnungen (16,17), einem darin angeordneten Nockenteil (24), zwei mit dessen gegenuberliegenden Schraegflaechen (37,38) zusammenwirkenden Schei ben (32,34) sowie mit einem in die beiden Oeffnungen (16, 17) derart einsetzbaren Kabel (18), dass das eine Kabelende (19) in der einen Oeffnungen (17) zwischen der einen Scheibe (34) und dem Plombenkoerper (11,12) und das andere Kabel ende (21) in der anderen Oeffnung (16) zwischen der anderen durch eine Fe der (31) vorgespannten Scheibe (32) und dem Plombenkoerper (11, 12) gehalten ist und weiterhin dadurch gekennzeichnet, dass im Plombenkoerper (11,12) mindestens eine Kerbe (42,43) ausgeformt ist, durch welche dos eine Kabelende (19) zusaetzlich zur einen Scheibe (34) im Plombenkoerper (11,12) derart festge klemmt ist, doss es in keiner Richtung aus diesem Plombenkoerper (11,12) heraus ziehbar ist 2. Cable seal to indicate entry or disturbance consists of a first rectangular body (11) and a second body (12) which is passed through to form parallel openings (16, 17) opposite sides and which together contain a cam (24), engaged on the ramp sides with discs (32 and 34) respectively, and with a spring (31) bearing on the under side of the disc (32). One end (19) of the cable (18) passed through the holes (16, 17) is clamped between the disc (32) and body (12), assisted by a recess (42, 43) in the body (12) to hold the cable end and so prevent any change of cable direction relative the sealing bodies.

0) BR202013033023U – FECHOS INDEPENDENTES PARA ABRACADEIRAS PLASTICA...

22) Family number: 60976242 (BR202013033023U) © PatBase

Title: FECHOS INDEPENDENTES PARA ABRACADEIRAS PLASTICAS AUTOTRAVANTES E REUTILIZAVEIS LOCKS FOR INDEPENDENT PLASTICAS self locking cable ties and reusable (Machine translation)

Priority: BR20132033023U 20131220

Family:

Publication number	Publication date	Application number	Application date
BR202013033023 U2	20151013	BR20132033023U	20131220

Probable Assignee: SANTOS DENY LUDERS E

Assignee(s):(std)**:** SANTOS DENY LUDERS E

Assignee(s): DENY LUDERS E SANTOS

Inventor(s):(std)**:** SANTOS DENY LUDERS E

Inventor(s): DENY LUDERS E SANTOS

International class (IPC 8–9): F16G11/02 (Advanced/Invention)

Classification Explorer

Abstract:
Source: BR202013033023U RESUMO "FECHOS INDEPENDENTES PARA ABRACADEIRAS PLASTICAS AUTOTRAVANTES E REUTILIZAVEIS", refere–sc o presente modelo ao campo tecnico dc abracadciras em geral, mais especificamente a fechos independentes para abracadeiras plasticas autotravantes e reutilizaveis, que trazem como novidade, dois mock!os de fechos independentes, sendo um fecho autotravante (1) e um fecho autcL" ivante universal (2), que reutilizam os pedacos de cintas dentadas (A), descartadas dos modelos tradicionais ou podem ser acopladas a pedacos de cintas denta 4 as compradas em tiras ou em rolos, onde o consumidor podera personaliza–las nos i, nanhos que serao mais utilizados. SUMMARY "LOCKS INDEPENDENT FOR BRACKETS PLASTICAS self locking and reusable" refers sc this model to the field technician dc abracadciras in general, specifically the independent closures for plastic self–locking clamps and reusable, which bring as novelty, two mock! The independent locks, being a self–locking buckle (1) and a autcL closing "universal ivante (2), that reuse the pieces of toothed belts (a), discarded the traditional models or may be attached to strap pieces dents 4 of the purchased in strips or rolls, where the consumer will be able to customize them in i, nanhos that will be most used.

0) US4000875A – ONE–PIECE STRAIN RELIEF BUSHING WITH INDEPENDEN...

23) Family number: 31164103 (US4000875A) © PatBase

Title: One–piece strain relief bushing with independent holding means

Priority: CA19750206657 19750527 DK19740005118 19740927 DK19750003442 19750729 US19740477780 19740611 US19750574621 19750509

Family:

Publication number	Publication date	Application number	Application date
BE819176 A	19741216	BE19740147895	19740826
BE819176 A1	19741216	BE19740147895	19740826
BR7407036 A	19760413	BR19740007036	19740826
CA999942 A1	19761116	CA19740206657	19740809
DE2454678 A1	19760102	DE19742454678	19741119
DE2454678 B2	19781207	DE19742454678	19741119
DE2454678 C3	19790816	DE19742454678	19741119
DE2526042 A1	19751218	DE19752526042	19750611
DK138717 B	19781016	DK19740005118	19740927
DK138717 C	19790326	DK19740005118	19740927
DK142760 B	19810112	DK19750003442	19750729
DK142760 C	19810810	DK19750003442	19750729
DK344275 A	19761110	DK19750003442	19750729
DK511874 A	19751212	DK19740005118	19740927
ES432561 A1	19761001	ES19740432561	19741204
FR2275046 A1	19760109	FR19750018110	19750610
FR2275046 B1	19780224	FR19750018110	19750610
GB1488195 A	19771005	GB19750024591	19750609
IL45430 A0	19741129	IL19740045430	19740807
IL45430 A1	19760930	IL19740045430	19740807
IT1021163 A	19780130	IT19740027042	19740906
JP51000687 A2	19760106	JP19740104794	19740910
JP51010394 A2	19760127	JP19750070078	19750609
JP54032954 B4	19791017	JP19750070078	19750609
JP997223 C3	19800520	JP19750070078	19750609
NL155407 B	19771215	NL19740010765	19740812
NL7410765 A	19751215	NL19740010765	19740812
SE407724 B	19790409	SE19750006697	19750611
SE407724 C	19790719	SE19750006697	19750611
SE7506697 A	19751215	SE19750006697D	19750611
US4000875 A	19770104	US19750574621	19750509

Probable Assignee: HEYMAN MFG CO

Assignee(s):(std)**:** HEYMAN MFG COMPANY ; HEYMAN MFG CO

Assignee(s): HEYMAN MANUFACTURING COMPANY TE KENILWORTH NEW JER ; HEYMAN MFG CO KENILWORTH N J V ST A ; HEYMAN MANUFACTURING COMPANY KENILWORTH NEW JERSEY VER ST V AM ; HEYMAN MANUFACTURING COMPANY TE KENILWORTH NEW JERSEY VER ST V AM ; JEMISON WILLIAM ; ORLANDO SALVATORE ; FINK RICHARD R ; HAIMAN MFG CO ; HEYMAN MANUFACTURING CO ; HEYMAN MANUFACTURING CO KENILWORTH N J V ST A ; HEYMAN MANUFACTURING COMPANY ; HEYMAN MANUFACTURING COMPANY KENILWORTH NEW JERSEY

Inventor(s):(std)**:** FINK R ; FINK RICHARD ; FINK RICHARD R ; JEMISON W ; JEMISON WILLIAM ; ORLANDO S ; ORLANDO SALVATORE ; RICHAADO FUINKU ; SARUBATOORE

	ORURANDO ; UIRIAMU JEMISON
Inventor(s):	W JEMISON ; WILLIAM JEMISON ; WILLIAM JEMISON SALVATORE ORLANDO ET RICHARD FINK ; RICHARD FINK ; S ORLANDO ; SALVATORE ORLANDO ; R FINK
Agent(s):	DR YITZHAK HESS AND PARTNERS
International class (IPC 8–9):	F16L5/00 H01B17/58 H01R13/58 H02G3/06 H02G3/22 H05K7/00 (Advanced/Invention); F16L5/00 H01B17/58 H01R13/58 H02G3/02 H02G3/22 H05K7/00 (Core/Invention)
International class (IPC 1–7):	F16G11/02 F16L5/00 H01B17/58 H01R13/58 H02G3/06 H02G3/18 H02G3/22 H02G7/04
CPC:	H02G3/0625 H02G3/0641 H02G3/065
European class:	H02G3/06C1 H02G3/06C1D H02G3/06C1F
US class:	174/153G 248/56 439/449
Classification Explorer	
Cited documents:	US3788582 A, US3701505 A, US3689014 A, US3643290 A, US3498575 A, US3493205 A, US3169004 A, US3167292 A, US3127471 A, US3126185 A, US3118644 A, US2828147 A,
Forward Citations:	WO8400275, US9371948, US8895877, US8378233, US8309852, US7922020, US7500643, US6669515, US6498295, US6372986, US6147307, US5772159, US5677975, US5676339, US5374017, US5052643, US4919370, US4913385, US4685173, US4568047, US4486065, US4344205, US4264046, US4216930, US4190222, US4180227, US4157799, US4095765, US2011203832, US2011024184, US2008179469, US2007261881, JP63146599, FR2534327, EP0772270, DE3433234, DE3433234, DE2709408, DE2653163,

Abstract:
Source: US4000875A A one−piece strain relief bushing includes independent means for grasping the wall surrounding an aperture and open and closeable means for grasping a cord or cable so as to relieve strain while being able to release the cord or cable without having to detach the strain relief bushing from its position in the aperture.

0) DE1233124B – TRAGSEILSCHLINGE, INSBESONDERE ZUM ANHEBEN VON ...

24) Family number: 21696973 (DE1233124B) © PatBase

Title: TRAGSEILSCHLINGE, INSBESONDERE ZUM ANHEBEN VON ROEHREN, WELLEN OD. DGL., MIT SELBSTSCHLIESSENDER SEILKLEMMVORRICHTUNG SUPPORTING rope sling, PARTICULARLY FOR LIFTING of tubes, OD WAVES. DGL., SELF LOCKING rope clamping device (Machine translation)

Priority: DE1963W034195 19630329

Family:

Publication number	Publication date	Application number	Application date
DE1233124 B	19670126	DE1963W034195	19630329

Probable Assignee: HELMUT WEGGLER

Assignee(s):(std)**:** HELMUT WEGGLER

Inventor(s):(std)**:** WEGGLER HELMUT

International class (IPC 8–9): B66C1/12 F16G11/10 (Advanced/Invention); B66C1/12 F16G11/00 (Core/Invention)

CPC: B66C1/12 F16G11/105

European class: B66C1/12 F16G11/10

Classification Explorer

Cited documents: US2289378 A, FR1228696 A,

Forward Citations: WO11066828, US9115783,

Abstract:
Source: DE1233124B (Claim 1) 1. Tragseilschlinge, insbesondere zum An heben von Roehren, Wellen od. dgl., mit selbst schliessender Seilklemmvorrichtung, an der ein Trum des Tragseiles befestigt ist und an der das andere Trum zwischen parallelen Klemmbacken gefuehrt und mittels auf die Seiltrume wirkende Zugkraefte festklemmbar ist, d a d u r c h g e kennzeichnet, dass die Klemmbacken (14, 15) in an sich bekannter Weise von auf einem Lagerklotz (2) schwenkbar gelagerten Parallelo– grammlenkern (Lenkerglieder 12, 13) gehalten werden, wobei die Lagerzapfen (16) des inneren Klemmbackens (14) gegenueber der Mittellinie (Verbindungslinie 11–17) der Lenkerglieder (12, 13) entgegen der Richtung der Schliessbewegung etwas versetzt angeordnet sind, dass das an der Seilklemmvorrichtung (3) befestigte Trum des Tragseiles (6) durch eine Laengsbohrung (4) des Lagerklotzes (2) verlaeuft, der auf einer Halte schiene (1) befestigt ist, und dass die Halteschiene (1) die Verschraubungen (8) fuer die Befestigung am Tragseil (6) aufnimmt, an beiden Enden mit Auflaufkanten (7) versehen ist und am der Last (10) zugekehrten Ende einen Fuehrungsbuegel (9) fuer das verschiebbar gefuehrte Trum des um die Last geschlungenen Tragseiles (6) traegt.

Machine translation: (claim 1) 1 Supporting cable loop, in particular for connecting lifting tubes, shafts or the like, with self–closing cable clamping device, on which a strand of the supporting cable is secured and kept on the other strand between parallel jaws and means acting on the Seiltrume tensile forces can be clamped, dadurchge characterizes be that the clamping jaws (14, 15) in a known manner by on a bearing block (2) program handlebars parallelogram pivotably mounted (link members 12, 13) is held, wherein the bearing journal (16) of the inner clamping jaw (14) relative to the center line (connecting line 11–17) of link members (12, 13) opposite to the direction of the closing movement are arranged somewhat offset that on the cable clamping device (3) fixed run of the hoist cable (6) by a Laengsbohrung (4) of the bearing block (2) proceeds provided on a retaining rail (1) is fixed, and that the holding rail (1) the screw (8) for mounting to the supporting cable (6) which is at both ends with leading edges (7) and on the load (10) facing end a GUIDE BRACKET (9) for the displaceably guided run of looped around the load supporting cable (6).

- **search:** SS4 ta=(cable and (seal* or lock*)) and ic=F16G and ft=((passage or channel) and (spring* or bias*)) (Results 202)
- **search:** SS5 ta=(cable and (seal* or lock*)) and ic=F16G and ft=((passage or channel) and (spring* or bias*) and (wheel or roller)) (Results 51)
- List: SS5 1–50 (ta=(cable and (seal* or lock*)) and ic=F16G and ft=((passage or channel) and (spring* or bias*) and (wheel or roller))) (Results 51)

0) US2010243114A – CUT–PROOF ANTI–THEFT BAG CONSTRUCTION

1) Family number: 46986925 (US2010243114A) © PatBase

Title: CUT–PROOF ANTI–THEFT BAG CONSTRUCTION

Priority:

AU20150226864	20150307	AU20150226864	20150307	US20090410123	20090324
AU20160228211	20160914	AU20160228212	20160914	EP20150758571	20150307
US20110245319	20110926	US20140559086	20141203	US20150641160	20150306
US20140949452P	20140307	US20150641173	20150306	US20150641144	20150306
US20150641191	20150306	US20150104717P	20150117	WO2010US28557	20100324
WO2012US57298	20120926	US20150641206	20150306	US20150856724	20150917
US20160994874	20160113	WO2015US19332	20150307	WO2016US13250	20160113
US20170484472	20170411	US20170624171	20170615		

Family:

Publication number	Publication date	Application number	Application date
AU2012316168 AA	20130404	AU20120316168	20120926
AU2012316168 AH	20160121	AU20120316168	20120926
AU2012316168 BB	20160114	AU20120316168	20120926
AU2012316168 BH	20160121	AU20120316168	20120926
AU2015226864 AA	20150911	AU20150226864	20150307
AU2016206772 AA	20160721	AU20160206772	20160113
AU2016228211 AA	20160929	AU20160228211	20160914
AU2016228212 AA	20160929	AU20160228212	20160914
CA2845938 AA	20140219	CA20122845938	20120926
CA2845938 C	20170425	CA20122845938	20120926
CA2970953 AA	20170614	CA20162970953	20160113
CN104168796 A	20141126	CN201280046911	20120926
CN104168796 B	20160622	CN201280046911	20120926
CN106941776 A	20170711	CN201580023763	20150307
CN107108181 A	20170829	CN201680006114	20160113
CN202005338 U	20111012	CN201020135926U	20100319
EP2760309 A2	20140806	EP20120835469	20120926
EP2760309 A4	20150603	EP20120835469	20120926
EP3113642 A1	20170111	EP20150758571	20150307
EP3113642 A4	20170125	EP20150758571	20150307
EP3143898 A2	20170322	EP20160188900	20150307
EP3143898 A3	20170705	EP20160188900	20150307
EP3195756 A1	20170726	EP20160188195	20150307
EP3245154 A1	20171122	EP20160737817	20160113
IN01419DN2014 A	20150130	IN2014DN01419	20140225
IN201717028566 A	20171110	IN201717028566	20170811
JP2017511730 T2	20170427	JP20160556735T	20150307
KR20140082746 A	20140702	KR20147011163	20120926
KR20160129878 A	20161109	KR20167027257	20150307
KR20170105535 A	20170919	KR20177021766	20160113
PH2017501207 A	20171018	PH20170501207	20170628
US2010243114 AA	20100930	US20090410123	20090324
US2012073714 AA	20120329	US20110245319	20110926
US2015083286 AA	20150326	US20140559086	20141203
US2015230571 AA	20150820	US20150641160	20150306
US2015230572 AA	20150820	US20150641173	20150306
US2015230573 AA	20150820	US20150641206	20150306

US2015230577 AA	20150820	US20150641144	20150306	
US2015237981 AA	20150827	US20150641191	20150306	
US2016000199 AA	20160107	US20150856724	20150917	
US2016208845 AA	20160721	US20160994874	20160113	
US2017215539 AA	20170803	US20170484472	20170411	
US2017280839 AA	20171005	US20170624171	20170615	
US8925181 BB	20150106	US20110245319	20110926	
US9486047 BB	20161108	US20150856724	20150917	
US9655424 BB	20170523	US20140559086	20141203	
US9675153 BB	20170613	US20150641191	20150306	
US9681716 BB	20170620	US20150641206	20150306	
WO10111434 A1	20100930	WO2010US28557	20100324	
WO13049176 A2	20130404	WO2012US57298	20120926	
WO13049176 A3	20140515	WO2012US57298	20120926	
WO15134956 A1	20150911	WO2015US19332	20150307	
WO16115251 A1	20160721	WO2016US13250	20160113	

Probable Assignee: TRAVEL CADDY INC

Assignee(s):(std)**:** LUGGAGE CO LTD ; TRAVEL CADDY INC D B A TRAVELON ; TRAVEL CADDY INC DBA TRAVELO ; TRAVEL CADDY INC D B ATRAVELON ; TRAVEL CADDY INC ; GODSHAW DONALD E ; HAI DU

Assignee(s): LUGGAGE CO ; ZIVANOVIC SLOBODAN S

Inventor(s):(std)**:** HICKMAN BRYCE RYAN ; ZIVANOVIC SLOBODAN S ; HAI DU ; GUNDERSON DONALD E ; GODSHAW DONALD E

Inventor(s): GODSHAW DONALD ; DU HAI ; DONALD E GUNDERSON ; DONALDEGUNDERSON

Agent(s): SPRUSON AND FERGUSON; KIRBY EADES GALE BAKER; PERKINS SARAH; MARLES ALAN DAVID; OKABE YUZURU; TAKAHASHI SEIICHIRO; OCHI TAKAO; MATSUI TAKAO; FITCH EVEN TABIN AND FLANNERY; NANCY R; GAMBURD LAW GROUP LLC; KRATZ RUDY ET AL; GAMBURD NANCY R

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

International class (IPC 8–9): A44B11/25 A45C13/00 A45C13/02 A45C13/10 A45C13/18 A45C13/20 A45C13/22 A45C13/30 A45C13/36 A45C3/00 A45C3/06 A45C3/14 A45C5/02 A45C5/14 A45C7/00 A45F3/14 A45F5/02 B66C1/36 F16B45/04 F16G11/14 (Advanced/Invention);
A45C13/02 (Advanced/Non–invention);
A45C13/00 (Core/Invention)

CPC: Y10T24/45204 A45C13/36 A45C13/1023 A45C5/02 A45C5/14 A45C7/0027 A45C13/02 A45C13/22 F16B45/04 A45F5/02 A45C13/1076 A45F3/14 A45F2003/142 A45C13/103 A45C13/20 A45C2013/026 A45C2013/306 A45C7/0068 Y10T29/49 Y10T29/5187 A45C3/001 A45C13/185 A45C13/30 A45C13/18 A45C3/06

European class: A45C13/10E1 A45C13/18 A45C13/20 A45C13/30 A45C3/00B A45C3/06 K45C13/02S K45C13/30P K45C3/06

US class: 150/101 150/102 150/110 150/130 190/101 24/588.11 24/588.110S 24/598.3 29/33F 29/592

Classification Explorer

Cited documents: WO13049176 A2, WO11109805 A9, WO11109805 A1, WO10111434 A1, WO09036657 A1, WO05118990 A1, WO04068992 A2, WO0231786 A1, US8978850 BB, US8752254 BB, US8661861 BB, US8590120 BB, US8528115 BB, US8453301 BA, US8438705 BB, US8365365 BB, US8276247 BB, US8267290 BB, US8234758 BB, US8113399 BB, US8082635 BB, US8060994 BB, US8015676 BA, US7979964 BB, US7772973 BB, US7743713 BB, US7721923 BB, US7661223 BB, US7603753 BB, US7526843 BB, US7472461 BB, US7467529 BA, US7454819 BB, US7351938 BB, US7155881 BA,

US7069753 BB, US7047602 BB, US7020937 BB, US6804867 BB, US6684404 BB, US6536084 BB, US6510593 BA, US6494512 BA, US647714 A, US6314624 BA, US6244081 BA, US6227015 BA, US6070308 A, US6053385 A, US6026662 A, US5965223 A, US5915631 A, US5743447 A, US5586368 A, US5579564 A, US5535491 A, US5361464 A, US5257441 A, US5127137 A, US5100191 A, US5081855 A, US5031944 A, US4997222 A, US4949401 A, US4928363 A, US4885570 A, US4807640 A, US4792026 A, US4782556 A, US4773535 A, US4610334 A, US4395891 A, US4153146 A, US3971458 A, US3958616 A, US3587795 A, US3443671 A, US3327365 A, US3133576 A, US276240 A, US275537 A, US2663359 A, US2635664 A, US2609898 A, US257003 A, US2254578 A, US2231198 A, US2019044 A, US201562104717 P, US2015216275 A9, US2014325805 AA, US2014238801 AA, US2014126230 AA, US2014105522 AA, US2014090942 AA, US2014069757 AA, US2014001001 AA, US2013327605 AA, US2013299540 AA, US2013276941 AA, US2013140120 AA, US2013048164 AA, US2013008752 AA, US2012125494 AA, US2012073714 AA, US2011272231 AA, US2011214787 AA, US2011010896 AA, US2010243114 AA, US2009183347 AA, US2009156096 AA, US2009140020 AA, US2009106951 AA, US2009068906 AA, US2008202962 AA, US2008196217 AA, US2008189917 AA, US2007240798 AA, US2007209894 AA, US2007175791 AA, US2007045072 AA, US2006249548 AA, US2006180619 AA, US2006102673 AA, US2006006035 AA, US2005257351 AA, US2005189388 AA, US2004262111 AA, US2003141160 AA, US2003110818 AA, US2003010801 AA, US1672322 A, US161617 A, US1557382 A, US1318183 A, US1172708 A, US1166612 A, SE0231786 A1, JP2012229806 A2, JP2012229806 A1, ILWO2011109805, GB2390295 A1, GB2275174 A1, GB2031375 A1, GB162091 A, GB1156718 A, FR760606 A, FR2601566 A1, EP2659800 A2, EP2653056 A1, EP2064967 A2, EP1941812 A1, EP1688059 B1, EP1688059 A3, EP1688059 A2, EP0878143 A1, EP0408522 A2, EP0408522 A1, DEWO2004068992, DE2722436 A1, DE2624309 A1, CNWO2009036657, CN2674918 Y, CN202005338 U, CN102188086 A, AU2005118990 AA,

Forward Citations: WO17096250, WO15134956, WO13049176, USD758721, US9625234, US9408450, US9364063, US9161596, US8925181, US2016298927, US2016284180, US2014090942, US2013008752, GB2506437, GB2506437, EP3195756, EP3143898, EP2760309, CN104168796, CN104168796, CN102188086, AU2012316168, AU2012316168,

Abstract:
Source: US2010243114A A security handbag comprises an interior security panel assembly with a matrix of wires incorporated positioned within an exterior bag having an inside chamber. The interior security panel assembly is positioned intermediate the exterior bag outside wall and a lining of the bag. A strap with security cable and a carbineer attachment device is attached to the handbag.

0) US6327752B – CLAMPING DEVICE FOR SECURING A CABLE

2) Family number: 15960343 (US6327752B) © PatBase

Title: CLAMPING DEVICE FOR SECURING A CABLE

Priority: US19990140647P 19990623 US20000596970 20000620

Family:

Publication number	Publication date	Application number	Application date
DE10030722 A1	20010405	DE20001030722	20000623
FR2797483 A1	20010216	FR20000008116	20000623
FR2797483 B1	20051021	FR20000008116	20000623
GB200015367 A0	20000816	GB20000015367	20000622
GB2351530 A1	20010103	GB20000015367	20000622
GB2351530 B2	20030430	GB20000015367	20000622
US6327752 BA	20011211	US20000596970	20000620

Probable Assignee: HINKEY LAWRENCE

Assignee(s):(std)**:** HINKEY LAWRENCE ; HINKEY LAWRENCE A ; HINKEY LAWRENCE ARTHUR

Assignee(s): LAWRENCE A HINKEY ; LAWRENCE ARTHUR HINKEY

Inventor(s):(std)**:** HINKEY LAWRENCE A ; HINKEY LAWRENCE ARTHUR

Inventor(s): LAWRENCE ARTHUR HINKEY ; LAWRENCE A HINKEY

Agent(s): BUREAU DA CASALONGA AND JOSSE

International class (IPC 8–9): E05B73/00 (Advanced/Invention); E05B37/02 (Advanced/Non–invention)

International class (IPC 1–7): A44B21/00 E05B73/00 F16G11/12

CPC: Y10T24/2157 Y10T24/2175 Y10T24/3996 E05B73/0005 E05B37/02 E05B73/007 Y10T70/409

European class: E05B73/00A E05B73/00C P05B37/02

US class: 24/115.00M 24/115M 24/68CD 24/71TD 241/150M 70/18

Classification Explorer

Cited documents: US6327752 BA, US6163935 A, US5187840 A, US5181402 A, US4610152 A, US4212175 A, US3426996 A, US2813898 A, US2497467 A, US14064799 P, US1401067 A, US1377413 A, GB2268223 A1,

Forward Citations: US9328539, US7913977, US7454932, US6931894, US6869146, US6523373, US2007289112, US2004172990, US2002135238, GB2391839, FR2797483, EP1766168,

Abstract:
Source: US6327752B A method and apparatus for securing the ends of one or more cables is disclosed. These methods and apparatuses may be used, for example, to secure pleasure craft, for example, surfboards, wind surfboards, canoes or kayaks, for storage or transportation. The methods and apparatuses are characterized by a device having two channels which are hinged at a common end and to which include means for attaching the one or more cables. When the channels are rotated into engagement the one or more cables are not only tensioned but the means for attaching the cables are concealed from tampering or damage. The channels are preferably secured to each other and disengagement is prevented by means of a locking mechanism and a release mechanism. The release mechanism is preferably a push–button release mechanism which facilitates use of the device.

0) US3628221A – DEVICE FOR CLAMPING AND TIGHTENING CABLES AND T...

3) Family number: 17754 (US3628221A) © PatBase

Title: DEVICE FOR CLAMPING AND TIGHTENING CABLES AND THE LIKE

Priority:

AT19670010390	19671117	AT19690002799	19690320	BE19670705491	19671023
BE19690732367	19690430	CA19720141881	19720511	CA19720141882	19720511
CA19720145793	19720627	DE19681278583	19680502	DE19670043192	19671017
DE19681765336	19680502	DE1967P043192	19671017	DE19681280369	19680502
DE19681765781	19680717	DE19681765335	19680502	DE19691914287	19690320
DE19691914289	19690320	DE19691914288	19690320	FR19670125393	19671023
SE19670017803	19671227	NL19740015856	19741205	NL19670016156	19671128
DE19681765782	19680717	DE19681765784	19680717	DE1968L032070	19680916
DE1968L032077	19680916	DE1968P032119U	19680925	GB19680024444	19680522
DE1968L032119U	19680925				

Family:

Publication number	Publication date	Application number	Application date
AT276286 B	19691125	AT19670010390	19671117
AT290448 B	19710611	AT19690005246	19680520
AT295092 B	19711227	AT19690002799	19690320
AT301651 B	19720911	AT19680012387	19681219
AT305407 B	19730226	AT19690001638	19690218
AT311449 B	19731112	AT19700002261	19700310
AT313721 B	19740115	AT19700000574	19690218
AT316941 B	19740615	AT19700000575	19690218
BE705491 A	19680301		19671023
BE726126 A	19690627		00000000
BE732367 A	19691001		19690430
CA931330 A1	19730807	CA19720141883	19720511
CA941583 A1	19740212	CA19690050265	19690501
CA947047 A1	19740514	CA19720141881	19720511
CA947047 A2	19740514	CA19720141881	19720511
CA948382 A1	19740604	CA19720141882	19720511
CA948382 A2	19740604	CA19720141882	19720511
CA960442 A1	19750107	CA19720145793	19720627
CA960442 A2	19750107	CA19720145793	19720627
CH518017 A	19720115	CH19680019050	19681220
DE1266384 B	19680418	DE1967P043192	19671017
DE1276773 B	19680905	DE19681276773	19680411
DE1277406 B	19680912	DE19681277406	19680411
DE1277407 B	19680912	DE19681277407	19680411
DE1278583 B	19680926	DE19681278583	19680502
DE1280369 B	19681017	DE19681280369	19680502
DE1298594 B	19690703	DE19681765781	19680717
DE1302092 B	19691218	DE19681765782	19680717
DE1914287 B	19691120		19690320
DE1914288 B	19691211		00000000
DE1914289 B	19691211		19690320
DK126759 B	19730820	DK19700004032	19700805
DK128038 B	19740218	DK19680004999	19681017
ES359280 A1	19700601	ES19680359280	19681017
FR1589369 A	19700508	FR19670125393	19671023
FR2009847 A6	19700213	FR19690013586	19690429

FR95545 E	19710122	FR19680179956	19681223	
GB1217911 A	19710106	GB19680004262	19680126	
GB1227568 A	19710407		00000000	
GB1245630 A	19710908	GB19680061361	19681224	
GB1273361 A	19720510	GB19690021892	19690429	
GB1273362 A	19720510	GB19710050485	19690429	
GB1273363 A	19720510	GB19710052178	19690429	
HU164300 P	19740128	HU1968PA00968	19680607	
NL6716156 A	19690530	NL19670016156	19671128	
NL6810049 A	19690421	NL19680010049	19680716	
NL6906569 A	19691104	NL19690006569	19690429	
NL7415856 A	19750327	NL19740015856	19741205	
NO131044 B	19741216	NO19680004091	19681016	
NO131044 C	19750325	NO19680004091	19681016	
OA3049 A	19701215	OA19690053596	19690502	
RO56600 P	19740429	RO19680057954	19681017	
SE349903 B	19721009	SE19670017803	19671227	
SE350878 B	19721106	SE19700003461	19700316	
SE367094 B	19740513	SE19680013858	19681015	
SE373001 B	19750120	SE19680006624	19680516	
SE373001 C	19750430	SE19680006624	19680516	
SE375194 B	19750407	SE19720000924	19681015	
SE375194 C	19750717	SE19720000924	19681015	
SU491243 D	19751105	SU19681276849	19681017	
US3628221 A	19711221		00000000	
ZA7001678 A	19710331	ZA19700001678	19700311	

Probable Assignee: LACREX BREVETTI SA

Assignee(s):(std)**:** LACREX BREVETTI SA ; PASBRIG ; PASBRIG M ; PASBRIG MAX

Assignee(s): 1LACREX BREVETTI SA ; LACREX BREVETTI CH SA ; LACREX BREVETTI SA CH ; MAX PASBRIG ; MAX PASBRIG TE ORSELINA ZWITSERLAND

Inventor(s):(std)**:** MAX PASBRIG ; PASBRIG M ; PASBRIG MAX

Inventor(s): PASBRIG M CH

International class (IPC 8–9): A44B11/16 A44B11/25 A44C5/20 B60M1/26 F16B21/14 F16G11/00 F16G11/04 F16G11/10 F16K24/04 H01R11/22 H01R13/20 H01R4/52 H01R9/22 H02G1/04 H02G7/05 (Advanced/Invention) ;
A44B11/00 A44B11/25 A44C5/18 B60M1/00 F16B21/00 F16G11/00 F16K24/00 H01R11/11 H01R13/02 H01R4/52 H01R9/22 H02G1/04 H02G7/00 (Core/Invention)

International class (IPC 1–7): A44B11/10 A44B11/25 A44C11/02 A62B35/00 B60R21/10 B64D25/06 F16G11/00 F16G11/10 F16G11/12 F16K45/00 F16K47/02 H01R11/22 H01R4/48 H01R4/52 H01R7/00 H01R7/06 H01R7/28 H02G1/00 H02G7/02 H02G7/05 H02G7/06

CPC: F16K24/04 H01R4/52 H01R13/20 B60M1/26 H01R9/226 H01R43/26 Y10T24/3969 Y10T24/3978 Y10T24/4079 Y10T403/1658 Y10T403/1674 Y10T403/39 Y10T403/5721 Y10T403/5793 Y10T403/599 Y10T403/602 F16G11/105 A44B11/16 A44B11/2519 A44C5/2052 F16G11/108 F16G11/106 F16G11/12 F16G11/103 F16G11/08 F16G11/143 H02G7/056

European class: A44B11/16 A44B11/25B2C2 A44C5/20H B60M1/26 F16G11/00 F16G11/10 F16K24/04 H01R13/20 H01R4/52 H01R43/26 H01R9/22S H02G7/05B3

US class: 226/147 226/167 24/126L 24/136B 24/136R 24/194 254/251 403/18 403/187 403/20 403/303 403/314 403/325 403/327 439/783

Classification Explorer

Cited documents: US3474389 A, US3424038 A, US3376545 A, US2834112 A, US2539333 A, US2529327 A, US2412097 A, US2374875 A, US2033227 A, US1921627 A, US1719182 A, FR834735

A, FR790186 A, FR1230690 A, DE1233452 B,

Forward Citations: WO9843507, WO8902994, WO16128782, WO16102907, WO11004152, WO09071806, WO09071806, WO07143767, WO07121775, WO04105187, WO03053127, WO03053127, US9695908, US9534660, US9131939, US8881349, US8857039, US8137095, US8112847, US6994385, US6832414, US6546600, US6443082, US6178604, US5617980, US5147145, US5056954, US4889320, US4443914, US4167054, US4091508, US3939594, US3927441, US2017054228, US2014249540, US2013160245, US2012311824, US2011204619, US2010084774, US2007276437, US2005088000, JP5853149, JP2013110016, GB2522537, GB2509807, GB2509807, GB2290105, GB2290105, GB2247926, GB2240581, GB2233032, GB2233032, FR2923993, FR2509810, FR2309763, FR2309763, EP0971607, EP0296537, EP0296537, CN104577402, CN102359477, AU610948, AU2013336485,

Abstract:
Source: GB1227568A 1,227,568. Buckles. M. PASBRIG. 22 May, 1968, No. 24444/68. Heading E2A. A buckle comprises a spring urged pivotable and translatable clamping means for a belt. The buckle 5 has an inclined slot 7 communicating with a slot 6 for the slidable passage of a belt section 4. Another belt section 3 is fixedly secured to one end of the buckle. A spring urged slide 8, within the buckle, pivotally supports clamping members 12, 13 which pivot to clamp the belt section 4 when tension is applied thereto. The belt section is released by gripping a handle 11 projecting laterally from each side of the buckle and moving the slide against the action of two helical springs 18. The helical springs are replaced by a leaf spring in one modification. In another modification, Figure 9 not shown, the end of the belt section 3, or a vehicle mounting point, is detachably secured to the buckle by a plate having a grooved end which is gripped by a second set of clamping members attached to the slide and is released against spring pressure by sliding a member projecting from the front of the buckle. In a further modification the clamping and releasing members are duplicated in order that both sections of the belt are adjustable.

0) US2004256865A – FLEXIBLE LOCKING AND SEALING DEVICE

4) Family number: 24108843 (US2004256865A) © PatBase

Title: FLEXIBLE LOCKING AND SEALING DEVICE

Priority: RU20010129785 20011106 RU20010135235 20011227 WO2002RU00478 20021101

Family:

Publication number	Publication date	Application number	Application date
DE10297413 T5	20041125	DE20021097413T	20021101
RU2001129785 A	20030820	RU20010129785	20011106
RU2184892 C1	20020710	RU20010135235	20011227
RU2227330 C2	20040420	RU20010129785	20011106
US2004256865 AA	20041223	US20040495048	20040506
US7278665 BB	20071009	US20040495048	20040506
WO03040497 A2	20030515	WO2002RU00478	20021101
WO03040497 A3	20031009	WO2002RU00478	20021101

Probable Assignee: EHNERGET I KO AOZT

Assignee(s):(std)**:** EHNERGET I KO AOZT ; ROGATNEV NIKOLAY TIMOFEEVICH

Assignee(s): ZAKRYTOE AKTSIONERNOE OBSHCHESTVO "EHNERGET I KO" ; ZAKRYTOE AKTSIONERNOE OBSHCHESTVO EHNERGET I KO

Inventor(s):(std)**:** LEBEDEV M M ; LIPATOV B M ; MAMINOV A N ; MATSNEV V V ; ROGATNEV N T ; ROGATNEV NIKOLAY TIMOFEEVICH ; SMIRNOVA O N ; SMIRNOVA ON ; ROGATNEV NT ; PAVLOV JUV ; MATSNEV VV ; MAMINOV AN ; LIPATOV BM ; LEBEDEV MM ; PAVLOV JU V

Designated states: CN DE GB JP KR US

International class(IPC 8–9)**:** B65D27/30 B65D55/06 E05B39/00 E05B39/02 E05B67/00 F16G11/04 G09F3/03 (Advanced/Invention); B65D33/34 (Advanced/Non–invention); B65D27/12 B65D55/02 E05B39/00 E05B67/00 F16G11/00 G09F3/03 (Core/Invention); B65D33/34 (Core/Non–invention)

International class(IPC 1–7)**:** B65D55/06 E05B39/02 F16G11/04 F16G11/14 G09F3/03

CPC: Y10T292/48 Y10T292/491 Y10T292/494 Y10T292/495 G09F3/0317 E05B39/00 E05B67/003 G09F3/0352 G09F3/0364

European class: E05B39/00 E05B67/00B G09F3/03A2 G09F3/03A6B G09F3/03A7

US class: 292/307.00R 292/307R 292/315 292/315P 292/317 292/319

Classification Explorer

Cited documents: US7021091 BB, US6719335 BB, US6345847 BA, US5820176 A, US5359870 A, US5092641 A, US4640538 A, US4141117 A, US3994521 A, US3770307 A, US15290 A, US1271912 A, RU2165551 C1, RU2149297 C1, RU2144155 C1, RU2136559 C1, RU2126106 C1, RU2125297 C1, RU2121090 C1, RU2109185 C1, RU2093395 C1, EP0861994 A2, DE443250 A,

Forward Citations: WO13116429, WO11066494, WO09154503, US9558682, US8065843, US7641062, US2013069375, US2011012377, US2008196326, US2008023616, RU173718, CN102213047,

Abstract:
Source: US2004256865A The invention is used for locking and sealing railway wagons and containers, warehouses, shops, stalls etc. Said invention makes it possible to increase the locking reliability by means of a small, easy–to–use device. The inventive device comprises a part of wire rope whose one end passes through a body and is fixed with the aid of two spring–loaded rollers during a locking operation. The external side surface of each roller has a spiral or dentate shape and is formed by successively disposed collars and annular grooves. Each roller together with the spring thereof and a pusher is arranged inside the body on a separate mounting seat which is embodied in the form a of a longitudinal slot whose width corresponds to the diameter of the roller. Said slots are disposed at an angle with respect to each other and the longitudinal axis of the end–to–end channel of the body. The slots are provided with end cylindrical stop surfaces which are oriented towards the input hole of the

body and offset with respect to each other. Several variants for the arrangement of the rollers inside the body and with respect to each other are also disclosed.

0) US2002035887A – BICYCLE CABLE CONNECTOR FOR SPLICING TWO CABLES...

5) Family number: 30112837 (US2002035887A) © PatBase

Title: BICYCLE CABLE CONNECTOR FOR SPLICING TWO CABLES IN SERIES

Priority: US19980107458P 19981106 US19990435088 19991105 US20010002077 20011123 US20010002911 20011123 US20030424238 20030425

Family:

Publication number	Publication date	Application number	Application date
US2002035887 AA	20020328	US20010002077	20011123
US2002038576 AA	20020404	US20010002911	20011123
US2003192393 AA	20031016	US20030424238	20030425
US6349614 BA	20020226	US19990435088	19991105
US6510760 BB	20030128	US20010002077	20011123
US6626060 BB	20030930	US20010002911	20011123
US6837126 BB	20050104	US20030424238	20030425

Probable Assignee: SHIMANO KK

Assignee(s):(std)**:** SHIMANO KK

Assignee(s): MATSUO NOBUYUKI ; SHIMANO INC

Inventor(s):(std)**:** MATSUO NOBUYUKI

Agent(s): JAMES A

International class(IPC 8–9)**:** F16C1/12 F16G11/08 F16G11/10 (Advanced/Invention)

International class(IPC 1–7)**:** F16C1/10 F16C1/14 F16C1/22

CPC: F16C1/14 F16C1/101 F16G11/08 F16G11/10 Y10T74/20402 Y10T74/20408 Y10T74/2045 Y10T74/20462 Y10T403/5741

European class: F16C1/10D F16G11/08 F16G11/10

US class: 403/306 439/378 74/500.5 74/501.5R 74/502.4 74/502.400S 74/502.6 74/502.600P

Classification Explorer

Cited documents: US6626060 BB, US6349614 BA, US6328138 BA, US6324938 BA, US6119544 A, US6085611 A, US6056020 A, US5855529 A, US5829314 A, US5809840 A, US5796066 A, US5765447 A, US5765446 A, US5630338 A, US5575180 A, US5431256 A, US5381706 A, US5366392 A, US5105682 A, US5039138 A, US4892004 A, US4889005 A, US4887929 A, US4076367 A, US3920340 A, US3871243 A, US3719377 A, US3020778 A, US2509272 A, US2373776 A, US2296993 A, US2222613 A, US2002035887 AA, US1453426 A, JPS6380315, JPS6240327, JPS6145614, JPS6137508, JPS5783713, JP83713, JP7006080 A2, JP63080315 A2, JP62040327 A2, JP61045614 A2, JP61037508 A2, JP57083713 A2, JP5032820 A2, JP2141713 A2, JP2001271824 A2, GB531202 A, GB466888 A, GB229116 A, GB2258028 A1, FR359717 A, EP0105176 A2, DE3429327 A1, DE29608010 U1, DE2960801,

Forward Citations: WO11123188, US9126071, US9004442, US8925687, US8794652, US8522983, US8469149, US8365856, US8127640, US7976304, US7722070, US7022019, US6905445, US6886844, US6837126, US6626060, US2016258474, US2012267507, US2011206452, US2011147281, US2009249914, US2009175676, US2007138068, US2007029753, US2006202059, US2005206121, US2005130808, US2005075175, US2004079185, US2003192393, GB2547186, FR2887600, EP1388491, EP1388491, DE10234813, AU2003203491,

Abstract:
Source: US2002035887A A bicycle cable connector for connecting a first cable to a second cable includes a first connector and a second connector. The first connector include a first cable retaining portion for retaining the first cable and a projection extending along a first connector axis, wherein the projection includes a radially outwardly extending locking member. The second connector includes a second cable retaining portion for retaining the second cable and a tubular portion defining a first connector opening for receiving the first connector therein and having a side wall extending along a second connector axis. The side wall includes a first passage for passing the locking member in the direction of the second connector axis away from the first connector opening, a second

passage extending in a circumferential direction, and a recess communicating with the second passage and extending in the direction of the first connector opening for receiving the locking member therein. The first and second passages and the recess may be formed entirely within the inner peripheral surface of the side wall or may be formed by openings that extend through the side wall.

0) US2016356292A – CABLE LOCK AND SEAL DEVICE

6) Family number: 60056352 (US2016356292A) © PatBase

Title: CABLE LOCK AND SEAL DEVICE

Priority: MY20140700257 20140207 WO2015MY00008 20150205

Family:

Publication number	Publication date	Application number	Application date
CL2016001992 A1	20170417	CL20160001992	20160808
CN106133391 A	20161116	CN201580017547	20150205
CO20160001162 A2	20170209	CO20160001162	20160825
CR20160390 A	20170119	CR20160000390	20150205
EP3102848 A1	20161214	EP20150745948	20150205
EP3102848 A4	20171004	EP20150745948	20150205
MX2016010298 A1	20170206	MX20160010298	20150205
PE14612016 A1	20170127	PE20160001439	20150205
US2016356292 AA	20161208	US20150117193	20150205
WO15119494 A1	20150813	WO2015MY00008	20150205

Probable Assignee: MEGA FORTRIS MALAYSIA SDN BHD

Assignee(s):(std)**:** MEGA FORTRIS MALAYSIA SDN BHD

Inventor(s):(std)**:** CHUA YUEN KAM ; YUEN KAM CHUA

Agent(s): ESTUDIO CLARKE MODET AND CO CHILE LIMITADA; CAROLINA MERCEDES DAZA MONTALVO; SCHNEIDER MICHAEL; CHEW KHERK YING 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

International class (IPC 8–9): F16B2/08 F16B2/12 F16G11/04 F16G11/10 F16G11/14 G09F3/03 (Advanced/Invention)

CPC: F16G11/106 F16B2/12 F16B2/08 G09F3/0352 F16G11/14 G09F3/0323

US class: 24/136R

Classification Explorer

Cited documents: WO0138756 A1, US8578566 BB, US8001660 BB, US6719335 BB, US6578886 BA, US6550830 BB, US6345847 BA, US5820176 A, US5647620 A, US5611583 A, US5538300 A, US5352003 A, US4640538 A, US4074916 A, US2011041292 AA, US2006196016 AA, EP1172781 A1, EP0630450 B1, CN102089549 A,

Abstract:
Source: US2016356292A A cable lock and seal device comprising a body and a cover with which complementarily forms a block enclosing there within a passage and a chamber. The body is integral with a base in which one end of a cable may be secured. The other free end of the cable may be inserted into the passage which is preferably curved and traverses the assembled body–and–cover block. The chamber is adapted with a ramp rising towards the passage, a slot for retaining a spring which second end is disposed to urge a locking wheel up the ramp against said passage. The urging of the locking wheel by the biasing means up the ramp is restrained when the locking wheel's axle engages a rib on the chamber wall to limit the wheel's further entry into the passage upon sufficiently engaging said cable and preventing its withdrawal by reversing its insertion.

0) US5538300A – CABLE LOCK AND SEAL DEVICE

7) Family number: 8393308 (US5538300A) © PatBase

Title: CABLE LOCK AND SEAL DEVICE

Priority: GB19920005565 19920313 GB19920014385 19920707 WO1993GB00515 19930311

Family:

Publication number	Publication date	Application number	Application date
AU199336456 A1	19931005	AU19930036456	19930311
DE69302901 D1	19960704	DE19936002901	19930311
EP0630450 A1	19941228	EP19930905569	19930311
EP0630450 B1	19960529	EP19930905569	19930311
GB9205565 A0	19920429	GB19920005565	19920313
GB9214385 A0	19920819	GB19920014385	19920707
US5538300 A	19960723	US19940302860	19941219
WO9318316 A1	19930916	WO1993GB00515	19930311

Probable Assignee: MEGA FORTRIS UK LTD

Assignee(s):(std)**:** BLAIR SECURITY PROD ; BLAIR SECURITY PRODUCTS LIMITE ; BLAIR SECURITY PRODUCTS LTD

Assignee(s): BLOXWICH ENGINEERING LTD ; BLOXWICH SECURITY PRODUCTS LTD ; MEGA FORTRIS LTD ; MEGA FORTRIS (UK) LTD ; BLAIR SECURITY PRODUCTS LTD WALSALL WEST MIDLANDS GB ; MEGA FORTRIS UK LTD ; BLAIR SECURITY PRODUCTS LIMITED

Inventor(s):(std)**:** BROWN CLIVE A ; BROWN CLIVE ALBERT

Inventor(s): BROWN CLIVE ALBERT WEST HEATH BIRMINGHAM B31 3NU G ; BROWN CLIVE ALBERT WEST HEATH BIRMINGHAM B31 3NU GB ; CLIVE ALBERT BROWN

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR LK LU MC MG ML MN MR MW NL NO NZ PL PT RO RU SD SE SN TD TG US

International class (IPC 8–9): F16G11/04 F16G11/10 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7): F16G11/04 G09F3/03

CPC: Y10T24/3976 G09F3/0352 Y10T292/48 Y10T292/502 F16G11/02 F16G11/106 F16G11/14

European class: F16G11/04 F16G11/10 G09F3/03A6B

US class: 24/136A 292/307.00R 292/307R 292/323

Classification Explorer

Cited documents: US5352003 A, US5222776 A, US4878269 A, US4747631 A, US4707891 A, US4640538 A, US3239255 A, US2606350 A, US2401418 A, US1628744 A, US1218752 A, FR2388114 A1,

Forward Citations: WO9838088, WO15119494, WO13116429, WO10089708, WO0138756, USD553575, USD525110, USD525109, USD521356, USD514425, US9803399, US9558682, US8578566, US8156771, US8065843, US8001660, US6457754, US6131969, US5820176, US5611583, US2016356292, US2013200637, US2011041292, US2011012377, US2010229350, US2009106947, US2009071211, US2008196326, US2007262593, US2005193783, US2004195556, ITPN20090011, GB2514279, GB2365915, GB2365915, GB2326620, FR2853381, EP3102848, EP0861994, EP0774598, EA2373, EA002373, CN106133391, CN104508323, CN104508323,

Abstract:
Source: US5538300A PCT No. PCT/GB93/00515 Sec. 371 Date Dec. 19, 1994 Sec. 102(e) Date Dec. 19, 1994 PCT Filed Mar. 11, 1993 PCT Pub. No. WO93/18316 PCT Pub. Date Sep. 16, 1993In a cable lock and seal device a roller is rotatable about a single axis normal to the axis of an inextensible member and with respect to a ramp which, in turn, is inclined with respect to the axis of the inextensible member. The roller is moveable up and

down the ramp between a retracted position in which the member can be drawn through a passage in which the device and a locking position in which the roller rolls up the ramp to clamp the member against movement in the opposite direction with the member trapped between the roller and the opposite face of the passage. A spring acts on the roller to urge it up the ramp at all times.

0) US4846075A – LOCKABLE LOAD ATTACHMENT DEVICE

8) Family number: 2194391 (US4846075A) © PatBase

Title: LOCKABLE LOAD ATTACHMENT DEVICE

Priority: CA19870551187 19871106 GB19860027320 19861114

Family:

Publication number	Publication date	Application number	Application date
AU198781159 A1	19880519	AU19870081159	19871112
AU613591 B2	19910808	AU19870081159	19871112
CA1284973 A1	19910618	CA19870551187	19871106
DE3781390 D1	19921001	DE19873781390	19871104
DE3781390 T2	19921210	DE19873781390T	19871104
EP0272782 A1	19880629	EP19870309752	19871104
EP0272782 B1	19920826	EP19870309752	19871104
GB8627320 A0	19861217	GB19860027320	19861114
JP1002668 A2	19890106	JP19870288266	19871114
JP2836036 B2	19981214	JP19870288266	19871114
JP64002668 A2	19890106	JP19870288266	19871114
US4846075 A	19890711	US19870116512	19871102

Probable Assignee: LATCHWAYS A CORP LTD

Assignee(s):(std)**:** LATCHWAYS LTD ; TUPPER ALAN W ; RATSUCHIUEIZU LTD

Assignee(s): TUPPER ALAN WILLIAM ; LATCHWAYS LTD CHIPPENHAM WILTSHIRE GB ; LATCHWAYS A CORP LTD ; LATCHWAYS LIMITED

Inventor(s):(std)**:** TUPPER ALAN W ; TUPPER ALAN WILLIAM ; ARAN UIRIAMU TATSUPAA

Inventor(s): ALAN WILLIAM TUPPER ; TUPPER ALAN WILLIAM CHIPPENHAM WILTSHIRE SN14 6JZ ; TUPPER ALAN WILLIAM CHIPPENHAM WILTSHIRE SN14 6JZ GB ; TUPPER ALAN WILLIAM CHIPPENHAM WILTSHIRE SN14...

Agent(s): CALLINANS; NA

Designated states: BE CH DE FR GB LI LU SE

International class (IPC 8–9): A62B1/16 A62B35/00 A62B35/04 E06C7/18 F16G11/10 (Advanced/Invention); A62B35/00 (Advanced/Non–invention); A62B1/00 A62B35/00 F16G11/00 (Core/Invention)

International class (IPC 1–7): A62B1/16 A62B35/00 A62B35/04 B61B12/12 E06C7/18 F16G11/10

CPC: F16G11/101 F16G11/105 A62B1/14 A62B35/04

European class: A62B1/14 A62B35/04 F16G11/10

US class: 104/204 104/209 104/211 182/5 188/65.1 188/65.2

Classification Explorer

Cited documents: US4669582 A, US4542884 A, US4521000 A, US4254941 A, US4034828 A, US3776368 A, US3146754 A, US2780318 A, US2561514 A, US2035446 A, JPS5242696 A2, JP52042696 A2, GB2096959 A1, GB209659 A, EP0163563 A1, DE1293602 B,

Forward Citations: WO9802210, WO9609089, WO9526784, WO9501815, WO9501815, WO10079344, WO10026199, WO09092576, WO05058422, WO03105960, WO0024471, US9750959, US9670986, US9636528, US9320924, US9186527, US9168402, US9132297, US8657068, US8522919, US8397351, US8348014, US8281895, US8225905, US7108099, US7080716, US7007772, US6530454, US6412420, US6263999, US6009977, US5941340, US5934408, US5924522, US5715755, US5638919, US5186120, US5029669, US2015352383, US2014020988, US2014020983, US2013056303, US2010326768, US2010314196, US2010126802, US2010012425, US2009200107, US2009188753, US2009056083, US2007119653, US2007107984, US2007080022, US2005269160, US2004129494, JP2014521034, GB2509047, GB2509047, GB2389529, GB2293193, GB2292720, GB2292720, FR2819727,

FR2757774, FR2751233, EP1030722, EP0859648, EP0752899, EP0309183, CN104943953, AU757167, AU729685, AU693602, AU2003277072,

Abstract:
Source: US4846075A A load attachment device attaching a person to a safety line to provide a fall−arrest facility, comprises a slipper member for engaging an elongate member for sliding movement therealong, and load sensitive locking member having an unlocked condition perimitting free sliding movement of the device and a locked condition in which a grip portion of the locking member engages and grips an elongate member slidably engaged, in use, with the slipper member, the locking member including biassing member to cause the locking member to be brought automatically into its locked condition when an applied loading, which is required to maintain the locking member in its unlocked condition on an inclined, or a vertical or near vertical elongate member, or portions of an elongate member, is removed.

0) US5934408A – FALL ARREST DEVICE

9) Family number: 8635526 (US5934408A) © PatBase

Title: Fall arrest device

Priority: GB19940019129 19940919 WO1995GB02212 19950919

Family:

Publication number	Publication date	Application number	Application date
AT174807 E	19990115	AT19950932060T	19950919
AU199535254 A1	19960409	AU19950035254	19950919
AU693602 B2	19980702	AU19950035254	19950919
CA2200211 AA	19970317	CA19952200211	19950919
DE69506893 D1	19990204	DE19956006893	19950919
DE69506893 T2	19990512	DE19956006893T	19950919
EP0782469 A1	19970709	EP19950932060	19950919
EP0782469 B1	19981223	EP19950932060	19950919
ES2126315 T3	19990316	ES19950932060T	19950919
GB2293193 A1	19960320	GB19940019129	19940919
GB9419129 A0	19941109	GB19940019129	19940919
JP10511011 T2	19981027	JP19960510673T	19950919
US5934408 A	19990810	US19970809807	19970318
WO9609089 A1	19960328	WO1995GB02212	19950919

Probable Assignee: LATCHWAYS LTD

Assignee(s):(std)**:** FLUX PETER ROBERT ; LATCHWAYS LTD

Assignee(s): LATCHWAYS LTD CALNE WILTSHIRE GB ; LATCHWAYS LIMITED

Inventor(s):(std)**:** FLUX PETER ; FLUX PETER ROBERT

Inventor(s): FLUX PETER ROBERT CALNE WILTSHIRE SN11 0JZ GB ; PETER ROBERT FLUX

Agent(s): GRIFFITH HACK; RIDOUT AND MAYBEE LLP

Designated states: AT AU BE CA CH DE DK ES FR GB GR IE IT JP LU MC NL PT SE US

International class (IPC 8–9): A62B1/14 A62B35/04 (Advanced/Invention); A62B1/00 A62B35/00 (Core/Invention)

International class (IPC 1–7): A62B1/14 A62B35/04 E04G21/32 F16G11/10

CPC: A62B1/14 A62B35/04

European class: A62B1/14 A62B35/04

US class: 182/192 182/5

Classification Explorer

Cited documents: WO9100121 A1, US589541 A, US5029669 A, US4265179 A, GB2044414 A1, EP0272782 A1, EP0163563 A1,

Forward Citations: WO10026199, WO03089067, WO03089067, USD614936, US9757598, US8480690, US8348016, US8333357, US8316989, US7963366, US7757812, US7597022, US7226038, US7108099, US7080716, US7007772, US6843346, US6681891, US6571912, US6530454, US6412420, US6334507, US2015275580, US2015129357, US2015114752, US2014008148, US2011152894, US2010116922, US2010116588, US2007261510, US2007187176, US2007119653, US2007107984, US2007080022, US2007000737, US2006124391, US2004129494, US2003196853, US2003029672, JP2012245217, ITMI20120483, GB2441140, GB2441140, FR2815876, EP3013436, EP3013436, EP2644231, EP2230419, EP2230419, EP1716889, EP1716889,

Abstract:
Source: US5934408A PCT No. PCT/GB95/02212 Sec. 371 Date Mar. 18, 1997 Sec. 102(e) Date Mar. 18, 1997 PCT Filed Sep. 19, 1995 PCT Pub. No. WO96/09089 PCT Pub. Date Mar. 28, 1996A fall arrest device for use on

an elongate safety line or track. The device contains a body part having retaining means to retain the safety line or track; locking cam means and biasing means for urging the locking cam means into locking engagement with the safety line or track in response to a sudden change in load experienced by the device; attaching means for attaching personnel safety means to the device; and cover means to receive loading applied to the device in a direction generally towards the safety line or track. The cover means are pivotally or rockably connected to the body part and are in a force transmitting relationship with the locking cam means thereby urging the locking cam means into locking engagement with the safety line or track.

0) WO0138756A1 – CABLE LOCK AND SEAL DEVICE DISPOSITIF D'ETANCH...

10) Family number: 20675570 (WO0138756A1) © PatBase

Title: CABLE LOCK AND SEAL DEVICE

Priority: GB19990027870 19991126 WO2000GB04462 20001124

Family:

Publication number	Publication date	Application number	Application date
AU200115342 A1	20010604	AU20010015342	20001124
AU200115342 A5	20010604	AU20010015342D	20001124
GB199927870 A0	20000126	GB19990027870	19991126
GB9927870 A0	20000126	GB19990027870	19991126
WO0138756 A1	20010531	WO2000GB04462	20001124

Probable Assignee: BLOXWICH TRANSPORT PROD LTD

Assignee(s):(std)**:** BLOXWICH TRANSPORT PROD LTD ; BLOXWICH TRANSPORTATION PRODUC ; BROWN CLIVE ALBERT ; BLOXWICH TRANSPORTATION PRODUCTS LIMITED ; BLOXWICH ENG

Assignee(s): BLOXWICH ENGINEERING LIMITED ; BLOXWICH ENGINEERING LTD ; BLOXWICH TRANSPORTATION PRODUCTS LTD

Inventor(s):(std)**:** BROWN CLIVE ALBERT

Inventor(s): CLIVE ALBERT BROWN

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

International class (IPC 8–9): F16G11/04 F16G11/10 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7): F16G11/04 G09F3/03

CPC: G09F3/0352 F16G11/02 F16G11/108 F16G11/14 G09F3/0358

European class: F16G11/04 F16G11/10 G09F3/03A6B G09F3/03A6C

Classification Explorer

Cited documents: US830656 A, US830565 A, US5538300 A, US5222776 A, US4747631 A, US4074916 A,

Forward Citations: WO17016687, WO04005753, RU173718, GB2453756, GB2453756, EP3115642, EP3115641, EP3115640, EP3102848,

Abstract:
A cable lock and seal device comprises a body (2) having a passage (9) therethrough and an elongate flexible inextensible member such as a cable (11) having one end (13) attached to the body, the opposite end being adapted to pass through the passage so that such cable engages a friction roller enclosed by the body, and rotatable about an axis normal to the axis of the passage. The roller (17) is movable upwardly along a surface (20) of a ramp which is inclined with respect to the axis of the passage (9) thereby to reduce the dimension of the passage available for accommodating the cable. A spring (19) is arranged to bias the roller (17) against the cable (11) when the latter is inserted into the passage (9), whereby, on attempted withdrawal of the cable from that passage, frictional engagement between the roller (17) and the cable (11) tends to draw the roller (17) upwardly along the ramp surface (20) to cause a jam fit with the cable (11) to resist further withdrawal. The spring (19) is arranged to bias the ramp surface (20) towards the axis of the passage (9), and that ramp surface (20) may be constituted by a surface of the spring (19).

0) US4854426A – HANDBRAKE COMPENSATOR FOR MOTOR VEHICLES

11) Family number: 18858374 (US4854426A) © PatBase

Title: HANDBRAKE COMPENSATOR FOR MOTOR VEHICLES

Priority: ES19870002034 19870710

Family:

Publication number	Publication date	Application number	Application date
DE3819177 A1	19890119	DE19883819177	19880606
ES2004746 AF	19890201	ES19870002034	19870710
FR2617784 A1	19890113	FR19880009119	19880701
FR2617784 B1	19930820	FR19880009119	19880701
GB2207207 A1	19890125	GB19880016450	19880711
GB2207207 B2	19910213	GB19880016450	19880711
GB8816450 A0	19880817	GB19880016450	19880711
IT1219339 A	19900503	IT19880067497	19880527
IT8867497 A0	19880527	IT19880067497	19880527
JP1030871 A2	19890201	JP19880171701	19880708
JP64030871 A2	19890201	JP19880171701	19880708
SE8801685 A	19890111	SE19880001685	19880504
SE8801685 A0	19880504	SE19880001685	19880504
SE8801685 L	19890111	SE19880001685	19880504
US4854426 A	19890808	US19880209857	19880622

Probable Assignee: PUJOL AND TARAGO

Assignee(s):(std)**:** PUHORU Y TARAGO SA ; PUJOL AND TARAGO ; PUJOL TARAGO SA ; PUJOL TARRAGO SA ; BUJOL AND TARRAGO SA ; PUJOL Y TARRAGO SA

Assignee(s): PUJOL Y TARRAGO S A ; BUJOL Y TARRAGO S A ; BUJOL Y TARRAGO SA ; PUJOL Y TARRAGO S A RUBI ES

Inventor(s):(std)**:** ANTONIO TORIRA SEGURA ; ANTONIO TRILLA SEGURA ; BIKUTORINO SORANO SARANTO ; SALLANT VICTORINO SOLANO ; SEGURA ANTONIO TRILLA ; SOLANO SALLANT V ; SOLANO SALLANT VICTORINO ; SOLANO SALLANT VICTORINO DR IN ; SOLANO VICTORINO ; SOLANO VICTORINO SALLANT ; TRILLA ANTONIO ; TRILLA ANTONIO SEGURA ; TRILLA SEGURA A ; TRILLA SEGURA ANTONIO ; TRILLA SEGURA ANTONIO DIPL ING ; A TRILLA SEGURA ; V SOLANO SALLANT ; VICTORINO SOLANO SALLANT

Inventor(s): VICTORINO SALLANT SOLANO ; ANTONIO SEGURA TRILLA ; TRILLA SEGURA ANTONIO DIPL ING BARCELONA ES ; SOLANO SALLANT VICTORINO DR ING ; SOLANO SALLANT VICTORINO DR ING SANT CUGAT DEL VAL

International class (IPC 8–9): B60T11/04 B60T11/06 F16G11/12 (Advanced/Invention) ; B60T11/00 F16G11/00 (Core/Invention)

International class (IPC 1–7): B60T11/04 B60T11/06 B60T17/18 B60T7/08 E04B1/62 F16D65/44 F16G11/12

CPC: Y10T74/20408 B60T11/06 B60T11/046 F16G11/12

European class: B60T11/04D B60T11/06 F16G11/12

US class: 188/196.00M 188/196M 74/501.50R 74/501.5R

Classification Explorer

Cited documents: US4235046 A, US3333660 A, US2249220 A, FR2443358 A1, FR2428280 A1, DE2923318 A1, DE2853111 A1, DE2750904 A1,

Forward Citations: WO9830433, US8631911, US8179776, US5386887, US5222413, US2011094838, FR2737320, FR2709846, EP1453709, EP0582934, DE102007037671,

Abstract:
Source: US4854426A A handbrake compensator for a motor vehicle includes a support having a tubular body

receiving a spring and two opposing flanges. The support is connected to a load distributor element which transmits load from a primary cable to a secondary cable connected to a wheel. The load distributor element has two opposing wings provided with elongated slots which receive a cap screw which connects the load distributor element to the support. One of the slots has toothed edges so that the screw can be moved axially of the support to adjust the position of the load distributor element relative to the spring to thereby adjust tension of the cables.

0) IL30886A1 – DEVICES FOR CONNECTING AND MOUNTINGFLEXIBLE CON...

12) Family number: 751335 (IL30886A1) © PatBase

Title: DEVICES FOR CONNECTING AND MOUNTINGFLEXIBLE CONNECTING ELEMENTS AND ELECTRICAL CONDUCTORS

Priority: DE19671266384 19671017

Family:

Publication number	Publication date	Application number	Application date
IL30886 A1	19720726	IL19680030886	19681016

Probable Assignee: PASBRIG M

Assignee(s):(std)**:** PASBRIG M

Assignee(s): MAX PASBRIG

Agent(s): EITAN PEARL LATZER AND COHEN ZEDEK

International class (IPC 8–9): F16G11/04 (Advanced/Invention); F16G11/00 (Core/Invention)

International class (IPC 1–7): F16G11/04 H01R7/06

Classification Explorer

Abstract:
Source: IL30886A1 WHAT I CLAIM IS:– 1. A device for detachably connecting and mounting flexible connecting elements and electric conductors, in which a spring–loaded clamping member guided in a chamber of a housing clamps the said connecting element or conductor between itself and the wall of the chamber, wherein the chamber is formed by the intersection of two bores forming an acute angle and a spring,retaining the tiltable clamping element,is guided in one and the connecting element or electrical conductor in the other bore. 2. A device as claimed in claim 1, wherein the spring biassing the clamping element is a conically wound helical spring into one end,of which the clamping element, equipped with a shank with a wider portion, is hooked. • 3. A device as claimed in claim 1, comprising a displaceable actuating handle for releasing the self–locking action or for inserting a connecting element, whereby the clamping member may be pushed back against the action of the spring. 4. A device as claimed in claim 1, wherein, in order to form a safety against accidental release, the actuating member is affected by spring force or by magnetic force, acting transversely of the helical spring acting on the clamping member and thereby retaining the actuating handle. ' 5. A device as claimed un claim 1, wherein a tensioning ' device with means for locating the connecting element coming from the chamber containing the clamping member, is detachably mounted on the housing. – . 33 6. A device as claimed in claim 1 wherein the housing has an open or closable slot, extending from the outside to the chamber containing the clamping member and having a width larger than the diameter of the connecting element, and extending substantially in the direction of this connecting element. 7. A device as claimed in claim 1, forming a tension lock for a safety belt comprising in a substantially rectangular chamber a plurality of clamping members which retain the safety belt in a self–locking manner. • ' 8. A device as claimed in claim 1 wherein the neck of the clamping member is articulately mounted on a slide sliding in the bore receiving the spring and carrying an actuating handle. 9• A device as claimed in claim 1 wherein, for con– necting two connecting elements, two bores, offset through 180 degrees lead into the chamber, ¦containing a. helical spring wound as a double cone, each end of Which carries a clamping element and wherein the shell of the housing has at least one longitudinal slot in which an actuating handle is slidingly mounted. • TO. A device as claimed in claim 3 wherein the shank of the clamping element is embraced by the looped end of a wire passing through a slot to the actuating handle. 11. A device as claimed in claim 1 wherein two bores are provide.d at the end of the bore receiving the spring into which a hook engages with its ends and wherein the hook ends projecting into the bore.serve as abutment for the spring., ' 12. A device as claimed in claim 9 wherein the housing comprises two diametrically opposite slots extending to the chamber containing the spring, and the bore has a guide member with pins, extending outwardly through the slots and carrying actuating elements at their outer ends. 13 A device as claimed in claim 8 wherein the end of the shank of the clamping member has a mounting pin extending across the shank and articulately movable in a groove of the slide, 14. A device as claimed in claim 4 wherein the actuating. handle is pivotable and axially movable in a recess of the shell and the wall of the recess has guide–like ratchets in the direction of the release of the actuating handle, 15 A device as claimed in claim 5 wherein the tensioning mechanism comprises a lever arm with a forked end and pivots in the forked end received in opposite bores of the housing, or com– prising a rotatable pin normal to the longitudinal axis of the housing, one end of which has an eyelet into which engages one prong of the fork lever end and whose other end is embraced by the second, forked, prong of the said forked end, • 16. A device as claimed in claim 15 wherein the lever has a laterally open slot into which the connecting element can be ' placed and in which a clamping device is located, consisting of a leaf spring and a clamping member, 1? A device as claimed in claim 5 and '15 wherein the lever comprises a clamping device consisting of a sleeve with helical spring, clamping element and actuating handle. –., •... ¦ 18. A device as claimed in claim 5 wherein the tensioning device for fixing the cable to be tightened has an eccentric clamping device or a lug receiving several.turns of the conductive element. ¦ 19 A device as claimed in claim 6 wherein a chamber for receiving the clamping element in the open position is

arranged..inside the housing obliquely to the bore. 20. A device as claimed in claim 6 characterized in that the pressure surface of the clamping member is adapted to the con– necting element or is concave preventing the connecting element from escaping laterally towards the slot in the locked state. 35 • 21" A device as claimed in claim 6 wherein the slot is labyrinth–shaped preventing an inserted connected element from escaping.: . 22. A device as claimed in claim 6 wherein the housing is a sleeve with U–shaped cross–section, the open side of which can be closed by a cover. • . , . 23. A device as claimed in claim 6 and 22 wherein the cover, is slicLingly mounted in a wall of the sleeve and a locking means is provided for retaining the cover in the locked position. 24. A device as claimed in claim 6 and 22 wherein the slot passes obliquely through the sleeve and the remaining part of the inner bore is closed. . 25. A device as claimed in claim 6 comprising a: dis– placeable slip–over bush for closing the lateral slot. 26. A device as claimed in claim•6 wherein for mounting a connecting element stressed under tension in both directions, the device is a dual or multiple clamping device comprising at both ends of a continuous chamber springs with associated clamping members acting in opposite directions.. 27. A device as claimed in claim 6 comprising a mounting for being mounted on"a wall or on another fixed point. 28. A device as claimed in claim 7 wherein an inlet slot and an outlet slot lead into the chamber of the tension lock at an acute angle. . . ¦ .. 29 .. A device 3s claimed in claim 7 comprising an actuating. member in the form of a slide.with lateral gripping members, extending over the whole width of the lock, and wherein the clamping members are movably mounted on the slide, enabling them to tilt in a plane normal to the surface of the safety belt. 36 /) 30 . A device as claimed in claim 7 wherein the clamping members are flat profiles comprising within the profile a thicker head portion, a ribbed support surface facing the belt, a thinner shank and a bearing ball at the end of the clamping member. 3'l. A device as claimed in claim 7 wherein the tensioning lock is a twin lock with two sets of clamping members,springs, inlet and outlet slots, so that every part of the belt may be shortened or locked or one set of the clamping members is associated with a lug mounted on one part of the belt and the other with the other part of the belt. ' 32. A device as claimed in claim 7 and 30 wherein the centre clamping member of a set is drop–shaped and the outer members are flat profiles. 33. A device as claimed in claim 7 and 30 wherein angled metal strips are hooked into the shanks of the clamping members and are connected with an actuating slide movable on the upper surface of the tension lock. • 34. A device for detachably connecting several electrical conductors as claimed in claim.1, comprising a number of spaced apart sleeve shaped bodies, each with a continuous inner bore and two oblique bores,, terminating near one end of the inner bores, one spring in each inner bore, clamping members mounted on the two ends of the springs and pressed against the end openings, and a plastic strip in which the sleeve–like bodies are embedded.. 35 A device as claimed in claim 1 wherein the clamping members and the chambers receiving the ends of electrical con– duetors are mounted directly in the housing of an electrical appliance. 37 36. A device for detachably mounting several electrical conductors according to claim 1 wherein several plate–shaped conducting bodies with bores, chambers, springs and clamping elements are electrically insulated by plastic plates and com– bined by a common plastic frame to form a block wherein the plate–like conducting bodies connect certain inner bores at the ¦ connecting points conductively within the block. 37. A device for detachably mounting several electrical conductors according to claim 1 wherein the inner bores containing the springs extend continuously from one side wall of a'block of electrically conducting material to the other side wall. 38. A device as claimed in claim 1 and 36 wherein the conducting block is a cylinder in which the oblique bores pass through the shell 39. A device as claimed in claim 36 wherein the plate– shaped bodies have slots parallel to the inner bores and inter– sec ting the same,–.'in which lies an actuating pin for the springs of clamping members passing through all inner bores. . 40.. A device as claimed in claim 1 comprising an actuating device in the•form of a pressure source for producing a flow of pressure medium_ through the bore containing the spring depressing the clamping member against the action of the associated spring. 41. A device as claimed in claim 40 wherein the chamber receiving.the clamping member and formed by the inner and oblique bores communicates with a. pressure medium inlet and a pressure medium outlet and comprises a venturi restriction in front'of the chamber. . ¦ 42. A device as claimed in claim 39 wherein, for connecting pre–fabricated cable tree's or a plurality of wires, the chambers are so connected by channels as to enable the simultaneous operation of a larger number of clamping members. 38 43 A device as claimed in claim 39 wherein the wire ends are retained in pen–shaped plugs introduced into the chambers and locked by the clamping members 44. A device as claimed in claim 1 wherein an electrically conducting strip is fitted into the chamber wall longitudinally of the. chamber, against which the conductor end is pressed and which is connected to an electrical terminal. 4.5– A device as claimed in claim 44 comprising a terminal strip with two adjacent rows of chambers wherein the facing chambers of the two rows form acute angles and the conducting strips are substantially of V–shape and connect mutually facing chambers with each other. .. 46. A• device as claimed in claim 44 wherein the bore extending obliquely to the axis of the chamber receiving the clamping member is an outwardly closed chamber receiving the conductor end. . 47. A device as claimed in claim 44 wherein a tongue is stamped out of the conducting strip at the inlet into the second chamber, and the conductor end abuts on this tongue. 48. A device as claimed in claim 44 wherein the con– ducting strip is located in the wall of the said further chamber 49 A device as claimed in claim 44 wherein the clamping member has a bore extending transversely to the conductor end and into which an actuating member can be inserted to release the con– duetor end. 50. A device as claimed in claim 49 wherein the actuating element is a. rod extending through the clamping member and guided in slots extending in the axial direction of the chamber receiving the clamping:member. 51. A device as claimed in claim 45 wherein all cImping members of each row are threaded on a. rod in spaced relationship and the•plastic rod has thicker points•for spacing the clamping bodies and is rotatably mounted therein. 52. A device as claimed in claim 51 wherein slides are slidingly mounted in recesses of the terminal strip and act on the two rods carrying the clamping members and extending in spaced relationship longitudinally in the terminal strip so that actuation in one direction operates the clamping members anyone side of the strip and actuation in the other direction the opposite clamping members. . 53• A device as claimed in claim 44 wherein the conducting strip is fitted into a groove of the chamber wall. 54. A device as claimed in claim 44 wherein the conducting strip has recess extending in the direction of the conductor and adapted to receive the same. \ COHEN ZEDEK and SPISBACH P. 0. Box 1169, Tcl–Aviv Attorneys for Applicant

0) WO11066494A2 – CABLE SEAL PRESSE–ETOUPE DE CABLE

13) Family number: 49009735 (WO11066494A2) © PatBase

Title: CABLE SEAL

Priority: US20090265173P 20091130

Family:

Publication number	Publication date	Application number	Application date
WO11066494 A2	20110603	WO2010US58157	20101129
WO11066494 A3	20110721	WO2010US58157	20101129

Probable Assignee: ILLINOIS TOOL WORKS

Assignee(s):(std)**:** DOWNING MARK L ; DRESSER ZACHARY M ; ILLINOIS TOOL WORKS

Assignee(s): ILLINOIS TOOL WORKS INC

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Agent(s): HAUPTMAN BENJAMIN J

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 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 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 PE PG PH PL PT RO RS RU 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

International class (IPC 8–9): B65D55/02 F16G11/00 G09F3/03 (Advanced/Invention)

CPC: G09F3/03 F16G11/106

European class: F16G11/04 F16G11/10 G09F3/03

Classification Explorer

Cited documents: WO0154101 A1, WO0154100 A1, US6155617 A, US61265173, US5647620 A, US2004256865 AA, EP1172781 A1,

Forward Citations: MD4524,

Abstract:
A cable seal includes first and second metal toothed wheels that are moved away from one another to allow insertion of a cable, and are pulled toward each other when cable extraction is attempted. If the cable seal is breached, one of the toothed wheels blocks the cable aperture to inhibit cable reinsertion.

0) US2008250989A – WORKSTATION

14) Family number: 42050254 (US2008250989A) © PatBase

Title: WORKSTATION

Priority: US20070886738P 20070126 US20070944604P 20070618 US20080010518 20080125 WO2008US52073 20080125 WO2008US67226 20080617 US20080665225 20080617

Family:

Publication number	Publication date	Application number	Application date
EP2109734 A2	20091021	EP20080728298	20080125
EP2162667 A1	20100317	EP20080771270	20080617
US2008250989 AA	20081016	US20080010518	20080125
US2011042911 AA	20110224	US20080665225	20080617
WO08092092 A2	20080731	WO2008US52073	20080125
WO08092092 A3	20081211	WO2008US52073	20080125
WO08092092 C2	20081023	WO2008US52073	20080125
WO08157546 A1	20081224	WO2008US67226	20080617

Probable Assignee: RUBBERMAID INC

Assignee(s):(std)**:** BUSTLE BENJAMIN SHANE ; CHOCHINOV JEFFREY ALLAN ; KOZLOWSKI JR WILLIAM JACOB ; MCRORIE III ROBERT GRANT ; RUBBERMAID INC

Inventor(s):(std)**:** MCRORIE III ROBERT GRANT ; KOZLOWSKI WILLIAM JACOB ; KOZLOWSKI JR WILLIAM JACOB ; CHOCHINOV JEFFREY ALLAN ; BUSTLE BENJAMIN SHANE ; CHOCHINOV JEFFREY ALLEN

Agent(s): LAWRENCE JOHN; FOLEY AND LARDNER LLP, SUITE 500; FOLEY AND LARDNER LLP SUITE 500; FOLEY AND LARDNER LLP,SUITE 500; RAWLINS ANDREW E ET AL

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

International class (IPC 8–9)**:** A47B9/00 B60P1/44 F16G13/16 F16M11/24 F16M11/42 (Advanced/Invention); F16G13/16 (Advanced/Non–invention); A47B9/00 F16G13/00 F16M11/00 F16M11/20 (Core/Invention); F16G13/00 (Core/Non–invention)

CPC: F16G13/16 A47B21/02 A47B21/06 F16M13/00 F16M11/046 F16M11/24 F16M11/42 F16M2200/047

European class: A47B21/02 A47B21/06 F16G13/16 F16M11/04 F16M11/04T2 F16M11/24 F16M11/42 F16M13/00 R16M200/04C

US class: 108/147 280/47.35 280/47.350P

Classification Explorer

Cited documents: WO0126132 A1, US7047720 BB, US6712008 BA, US6493217 BA, US6286794 BA, US6038986 A, US5868079 A, US5715759 A, US5682825 A, US5289782 A, US5181620 A, US4625935 A, US4615279 A, US4506480 A, US4351245 A, US4009915 A, US3820478 A, US3608462 A, US3575368 A, US2932403 A, US2168209 A, US2006227938 AA, US2004262867 AA, US2004250635 AA, US2004075736 AA, GB2233163 A1, ES2255410 AA,

DE202005019489 U1

DE19918298 A1, DE19801489 A1, CH627274,

Forward Citations: WO15075652, USD743189, USD700706, USD650142, US9808079, US9775431, US9743754, US9591919, US9560910, US9510671, US9463069, US9232855, US9180898, US9133974, US9046213, US9039016, US8474835, US8381987, US8286977, US8245652, US2017020279, US2016367329, US2014312754, US2014238279, US2014117635, US2014110913, US2014077050, US2013126682, US2012248263, US2011232535, US2011025007, US2010145160, JP2015519775,

EP2787269, DE102011115420, DE102011115420,

Abstract:
Source: US2008250989A The work station disclosed herein may comprise a lift mechanism comprising a fixed column and a movable part that moves within a vertical range of motion along the fixed column and a work surface attached to the movable part. The work station may have a lift force adjuster that adjusts an amount of lift force necessary to move the movable part within the vertical range of motion, a lift force indicator for indicating the amount of lift force set by the lift force adjuster, and/or a plurality of first protrusions mounted on the fixed column and a locking mechanism with a plurality of second protrusions rotatably attached to the movable part for mating with a portion of the first protrusions.

15) Family number: 32785913 (OA2945A) © PatBase

Title: SYSTEME DE RACCORDEMENT ET DE FIXATION D'ELEMENTS DE JONCTION FLEXIBLES ET DE CONDUCTEURS ELECTRIQUES. SYSTEM WIRING AND FIXING ELEMENTS JUNCTION FLEXIBLE AND ELECTRICAL CONDUCTORS. (Machine translation)

Priority: OA19680053440 19681202

Family:

Publication number	Publication date	Application number	Application date
OA2945 A	19701215	OA19680053440	19681202

Probable Assignee: PASBRIG MAX

Assignee(s):(std)**:** PASBRIG MAX

Assignee(s): MAX PASBRIG

International class (IPC 8–9): F16G11/10 H01R4/52 (Advanced/Invention); F16G11/00 H01R4/52 (Core/Invention)

International class (IPC 1–7): F16G11/10 H01R4/52

CPC: F16G11/106 F16G11/108 H01R4/52 F16G11/12

European class: F16G11/10 H01R4/52

Classification Explorer

Abstract:
Source: OA2945A [Source: Claim 1] ***** WARNING: OCR DATA – DESCRIPTION AND CLAIMS MAY OVERLAP *** *** Please email the Publication Number to Patbase@rws.com of any affected text for review ***** RE SUMS Systeme de raccordement et de fixation amovibles d'elements de jonction flexibles et de conducteurs electriques, oii une piece de serrage a ressort, guidee dans une chambre d'un boitier, verrouille, entre elle meme et la paroi de la chambre, 1'element 5 de jonction ou le eonducteur electrique, et presentant, isolement ou en combinaison, les caracteres inventifs suivants: 1. la chambre est formee par la rencontre de deux alesages se rejoingnant a angle aigu, grace a quoi le ressort qui maintient oscillante la piece de serrage est guide dans un des alesages, 10 et 1 'element de jonction, ou le conducteur electrique, dans l'autre alesage. / 2, le ressort qui sollicite la piece de serrage est un ressort a boudin enroule en cone, et a une extremite duquel est accorche la piece de serrage, qui presente une queue a elargissement. 15 5. Pour le deverrouillage ou l'introduction d'un element de jonction, on prevoit un bouton de commande mobile, au moyen duquel la piece de serrage peut etre rappelee en arriere malgre le ressort a bou– din annexe. 4. Pour s'assurer contre une liberation imprevue, 1'auto–verrouilla– 20 ge du bouton de commande se fait sous l'action d'un ressort et/ ou d'un aimant, dirige transversalement a la force du ressort a boudin annexe a la piece de serrage, et le bouton de commande est maintenu par une fermeture a farce ou de forme. / 5 5. Un dispositif tendeur est fixe amovible, avec des moyens de fixation de 1'element de jonction sortant de la chambre qui renferme 25 la piece de serrage. 6. le boitier presente une fente ouverte en permanence, ou pouvant etre masquee, et qui s'etend de 11exterieur jusqu'a la chambre renfermant la piece de serrage., 7. le systeme constitue un tendeur pour ceinture de securite, tandis que, dans une chambre de large section transversale rec– tangulaire, plusieurs pieces de serrage sont rangees les unes a cote des autres, et bloquent la ceinture de securite en auto– verrouillage. – 8. le col de la piece de serrage est articule mobile sur un coulisseau qui glisse dans l'alesage ou se trouve le ressort, et est fixe au bouton de commande. 9. Pour le raccordement de deux elements de jonction, deux alesages d'ecartement angulaire de 180 degrees conduisent dans la chambre ou est place un ressort a boudin a spires en double cone, et dont les extremites portent chacune une piece de serrage; au moins une fente longitudinale est menagee dans la gaine du boitier, et un bouton de commande peut s'y deplacer. 10. Dans le systeme correspondant a l'alinea 3» la queue de la piece de serrage est saisie par l'extremite, coudee en noeud coulant, d'un fil guide par une fente vers le bouton de commande. / 11. Dans le systeme conforme a l'alinea 1, il y a deux alesages opposes, a l'extremite de l'alesagui recoit le ressort; un crochet y est ancre par son extremite, et l'extremite du crochet S en saillie a l'interieur de l'alesage, sert de siege de "butee pour le ressort. / 11. Pans le systeme conforme a 11 alinea 9, le boitier presente deux fentes diametralement opposees et s'etendant jusqu'a la chambre qui recoit le ressort a compression, et l'alesage contient une piece de guidage a ergots faisant saillie exterieurement par la fente, et aux extremites exterieures desquels sont montes les elements de commande. z 13. ""ans le systeme conforme a l'alinea 8, a l'extremite de la queue de la niece de serrage, on a prevu une broche–support trans– versale a cette queue, et qui est mobile, articulee dans une gorge du coulisseau. / 14. bans le systeme conforme a l'alinea 4, le bouton de commande est mobile axialement et basculable dans une entaille de la gaine du systeme, ou la paroi de l'entaille situee dans la direction de la commande de liberation du bouton de commande,.presente des crans profiles encoulisse. / 13. Dans un systeme conforme a 1'alinea 5» le dispositif tendeur comprend un bras de levier se terminant, a une de ses extremites, par une fourchette et, dans sa partie en fourchette, il y a des broches qui sont recues dans lew alesages opposes du boit40ti ou bien dans une broche perpendiculaire a l'axe longitudinal

du boitier present, a une de ses extremites, un oeil dans lequel peut–etre enfoncee une des branches de la fourchette du levier ci–dessus, et dont l'autre extremite est entouree par la seconde branche de la fourchette, profilee a cet effet, 16. Dans le systeme conforme a l'alinea 15» le levier presente une fente ouverte lateralement, dans laquelle peut etre introduit 1'element de jonction, et dans laquelle un systeme de serrage, consistant en un ressort a lame et une piece de serrage, est prevu pour l'element de jonction. 17. Dans le systeme conforme aux alineas 5 et 15, le levier est equipe d'un systeme de serrage comportant un manchon avec un ressort a boudin, une piece de serrage et un bouton de commande. / 18. Dans un systeme conforme a l'alinea 5, le dispositif tendeur pour la fixation du cable, possede un serrage a excentrique ou un appendice a plusieurs enroulements. 19. Dans un systeme conforme a l'alinea 6, une chambre recevant la oiece de serrage dans sa position d'ouverture est prevue a partir de l'extremite de l'alesage interieur retreci, a l'in– terieur du boitier, obliquement par rapport a l'alesage./•' 20. Dans un systeme conforme a l'alinea 6, la surface de pression de la piece de serrage epouse 1'element de jonction, ou a un profil concave, en sorte que l'element de jonction, en etat de verrouillage, ne peut s'echapper lateralement dans la direction de la fente. z 21. D percent ns un systeme conforme a l'alinea 6, la fente est dessinee en labyrinthe, pour interdire a 1'element de jonction en place tout glissement vers l'exterieur. 22. Dans un systeme conforme a l'alinea 6, le boitier consiste en un manchon de section transversale en U, dont le cote ouvert peut etre masque par un couvercle. // 23. Dans un systeme conforme aux alineas 6 et 23» le couvercle glisse dans une paroi du manchon, et un verrou le maintient en position fermee. 24. Dans un systeme conforme aux alineas 6 et 22, la fente tra– 5 verse obliquement le manchon, et le reste de 1 ss alesage est ferme. 25. Dans un systeme conforme a l'alinea 6, il y a un manchon ae recouvrement mobile pour recouvrir la fente laterale. / 26. Dans un systeme conforme a l'alinea 6, pour la fixation d'un element de jonction tendu dans les deux directions, le dispositif 10 est a serrage double ou multiple,ou a chacune des deux extremites d'une chambre traversante, des ressorts sont montes, avec la piece de serrage associee, en direction d'action opposee. / 27. Dans un systeme conforme a 1'alinea 6, il y a un appendice d'arret pour la fixation a un mat ou a quelque autre point 15 fixe. / 28. Dans un systeme conforme a l'alinea 7, une fente d'introduc– tion et une fente de sortie debouchent a angle obtus dans la chambre du tendeur. 29. Dans un systeme conforme a l'alinea 7, un organe de commande 20 se presente comme un coulisseau faisant saillie sur toute la longueur du tendeur, avec des pieces de prise laterales, et les pieces de serrage sont montees mobiles sur le coulisseau, de sorte qu'il y a possibilite de basculage de ces pieces dans un plan perpendiculaire a la surface de la ceinture. 25 30. Dans un systeme conforme a l'alinea 7, les pieces de serrage r sont dessinees en profiles plats, ou, en profil, une tete elargie se raccorde a une surface de contact cannelee tournee vers la ceinture, et qui, au–dela d'une queue plus mince, se termine par une bille de positionnement a l'extremite de la piece de serrage.>– 31. Bans un systeme conforme a l'alinea 7, le tendeur est constitue en fermoir double, avec deux jeux de pieces de serrage,ressorts, fentes d'introduction et de sortie, de sorte que chacune des pieces de la ceinture permet un raccour– cissement et un serrage auto–verrouillant, a moins qu'un jeu de pieces de serrage soit agence a une hamjpe fixee a une piece de la ceinture, et l'autre, a l'autre piece de celle–ci. / 31. Dans un systeme conforme aux alineas 7 et 30, dans chaque jeu de pieces de serrage, la piece du milieu est piriforme, et les pieces, exterieures on un profil plat. 33. Dans un. systeme conforme aux alineas 7 et 30, des bandes de tole mince, coudees, sont accrochees aux queues des pieces de serrage, et sont reliees a un coulisseau de commande mobile sur le cote superieur du tendeur. 34. Systeme de raccordement amovible de plusieurs conducteurs electriques, conforme au premier alinea, caracterise par un certain de nombre de pieces en forme de manchon, placees a certains intervalles les unes des autres, presentant chacune un alesage interieur de part en part, et deux alesages obliques debouchant au voisinage de l'une des ouvertures frontales des alesages interieurs, ainsi qu'un ressort dans chacun de ceux–ci; – par des pieces de serrage fixees chacune aux deux extremites frontales de–' ressorts, qui les pressent contre les ouvertures frontales; – enfin par un domino en matiere synthetique, ou 5 sont loges les corps ou pieces en forme de manchon. 35. Dans un systeme selon le premier alinea, les chambres ren– fermant les pieces de serrage et les extremites des conducteurs electriques que l'on y enfonce, sont montees directement dans le boitier d'un appareil electrique. / 10 36. Dans un systeme de raccordement amovible de plusieurs con– ducteurs electriques, conforme aux premier alinea, plusieurs corps conducteurs en forme de plaque, qui presentent des alesages, des chambres, des ressorts et des pieces de serrage, sont separes electriquement les uns des autres par des plaques en matiere syn– 15 thetique, et saisie dlun seul tenant par un cadre commun en matiere synthetique; les corps conducteurs plats relient des alesages interieurs determines aux pieces de serrage individuelles, conduisant dans le bloc les unes avec les autres. S 37. Dans un systeme de raccordement amovible de plusieurs conduc– 20 teurs electriques, conforme au premier alinea, le s alesages inte– rieurs contenant les ressorts vont d'une paroi laterale d'un bloc en un materiau conducteur, jusqu'a la paroi laterale oppcsee. / 38. Dans un systeme conforme aux alineas 1 et 36, le bloc con– ducteur e and t de forme cylindrique, et les alesages obliques sortent 25 de la surfacede sa gaine • 39. Systeme conforme a l'alinea 36, ou, dans les corps en forme de plaque, des fentes courent parallelement aux alesages inte– rieurs, qu'elles coupent; une tige de commande des ressorts et des pieces de serrere traversant ces corps de part en part a travers 1 'ensemble des alesages interieurs, y coulisse. 40. Dans un systeme selon le premier alinea, un dispositif de commande est constitue par;une source d'un agent pressurise, par le moyen duquel un courant de pression est cree dans l'alesage ou sont les ressorts, et fait reculer la piece de serrage malgre le ressort de celle–ci. ‘ 41. Dans un systeme conforme a 1'alinea 40, la chambre, commune a l'alesage interieur et a l'alesage oblique, laquelle contient la piece de serrage, communique d'un cote avec une ouverture d'amenee servant \ l'admission de l'agent de compression, et de l'autre cote, vec un event servant a 1'evacuation du meme agent; un retreo. ssement formant buse de venturi est place dans la direction du courant, en avant de la chambre., 42. Dans un system ' conforme a l'alinea 39 pour le raccordement de faisceaux de cables ou autres extremites de fils multiples, les chambres sont reliees par des canaux de facon a rendre pos– sible la commande simultanee d'un grand nombre de pieces de commande • /" 43. Dans un systeme conforme a l'alinea 39, les extremites des fils sont saisies dans des fiches en gouttiere ou en cuiller, qui sont introduites dans les chambres, et maintenues en auto–verrouil– lage par les pieces de serrage. / 44. Systeme de contact electrique conforme au premier alinea, ou, d ns la: ongueur de la chambre et dans la paroi de celle–ci, il y a une "bande conductrice electrique sur laquelle est raccordement electrique a coupler. 45ss ysteme conforme a l'alinea 44» ou, dans une

de serrage en domino, il y a deux rangees voisines de chambres dans le coprs commun, et les chambres respectivement opposees elon un angle aigu ouvert dans la direction d1introduction, tandis que les bandes conductrices ont une forme generale en V et reliant le s/une s avec les autres les chambres qui. se font;6, Dans un systeme conforme a l'alinea 44, l'alesage oblique par rapport a l'axe de la chambre qui recoit la piece de serrage, est une chambre fermee vers l'exterieur, pour recevoir 1'extremite introduite du conducteur. 47. Dans un systeme conforme a l'alinea 44, une levre estampee dans la bande conductrice, a l'entree de la chambre suivante, recoit l'extremite du conducteur. 48. Dans ce meme systeme, la bande conductrice est tiree dans la paroi de la chambre suivante.y 49. Dans ce meme systeme, la piece de serrage presente un alesage transversal a 1'extremite introduite du conducteur, et un element de commande peut y etre introduit pour deverrouiller l'extremite du conducteur. 50. "Dans un systeme,–elon l'alinea. 49» l'element de commande est une qui s'etend dans 1'alesage de la piece de serrage et est guidee dans les fentes dirigees selon l'axe de la chambre conte–nant la piece de serrage. z 5'1. "Dans un systeme conforme a l'alinea 45» tous les corps de serrage de chaque rangee, avec leurs alesages, sont enfiles, avec un certain intervalle, chacun sur une tige; la tige en matiere synthetique presente des renflements pour le maintien des intervalles des pieces de serrage, et elle est maintenue rotative dans les nieces de serrage. z 52. Dans un systeme conforme a l'alinea 51, il y a un coulisseau glissant dans chacune des entailles du corps de serrage en domino, qui agit sur les deux tiges portant les pieces de serrage, s'eten– dant,avec un certain intervalle entre elles, dans la direction longitudinale du domino de raccordement, de sorte qu'en manoeuvrant dans une premiere direction, les pieces de serrage qui s'y rappor–tent, sur le premier cote du domino, sont mises en jeu; dans l'autre direction, ce sont les pieces de serrage opposees. 55. Dans un systeme conforme a l'alinea 44, la bande conductrice est logee dans une rainure de la paroi de sa chambre, 54. Dans yn systeme conforme a l'alinea 44» la bande conductrice presente une creusure dirigee dans la longueur de l'extremite du conducteur, qu'elle recoit. BUGNION – UBAF S. A. B. P. 4038 NLONGKAK– YAOUNDE/CAMEROUN [Source: Claim 1] ***** WARNING: OCR DATA – DESCRIPTION AND CLAIMS MAY OVERLAP *** *** Please email the Publication Number to Patbase@rws.com of affected Any text for review ***** RE SUMS removable connection and fastening Systeme flexible junction Elements and electric conductors, OII a clamping part has spring, guided in a chamber of a housing, locks, even between her and the wall of the bedroom, 1 'element of junction 5 or eonducteur electric, and presenting, isolation or in combination, the following inventive characters: 1. the chamber is formed by the meeting of two bores rejoingnant a sharp angle, thanks which the spring that holds the swing tightening guide is room in one of the bores, 10 and 1 'element junction, or the electric conductor in the other bore. / 2, the spring biasing the clamping pieces is a spring coil is wound into cone, and at one end of which is accorche the clamping pieces, which presents a tail widening. 15 5. For the unlocking or the introduction of an element of junction, it provides for a mobile command button, by which the clamping pieces can be called backward despite the spring has button Din Annex. 4. To insure against unforeseen release, 1'auto verrouilla– 20–ge control knob is under the action of a spring and / or a magnet, runs transversely to the spring force has boudin Annex to the clamping pieces, and the button is held by a closure farce or form. / 5 5. A tensioning device is detachably fixed, with 1'element fixing means outgoing junction of the chamber 25 which contains the clamping part. 6. the case presents a permanently open slot, or can be masked, and that extends to 11exterieur until the chamber enclosing the clamping pieces. 7. The system is a tensioner seat belts, while in a wide cross–section rectangular room, more clamping parts are rows beside each other, and block the self locking in safety belt. – 8. the collar of the clamping pieces is articulated mobile on a slide that slides into the bore or is spring, and is fixed to the control knob. 9. For the connection of two Elements junction, two bores angular spacing of 180 degrees result in the room or is instead a spring coil has a double cone turns, each of which carry the ends a clamping pieces; at least one longitudinal slot is provided in the sheath of the case, and a control button can move it. 10. In the system corresponding to paragraph 3 'tail of the clamping pieces is entered by the extremity, bent in the noose of a guide wire through a slot to the button. / 11. In the system conforming to paragraph 1, there are two bores opposed, at the tip of the alesagui receives the spring; a hook is anchored there by its extremity, and the extremity of the S hook protruding on the inside of the bore, serves as headquarters of "Thrust for the spring. / 11. Pans the system conforms to 11 paragraph 9, the case presents two diametrically opposed slots and extending up to the room which receives a compression spring, and the bore contains a guide part has pins projecting externally through the slot, and External ends of which are mounted the elements of order. 13. z " 'years the system conforms to paragraph 8, at the tip of the tail of the clamping niece, a support pin was expected transverse to the tail, and is movable, articulated in a groove of the slide. / 14. bans the system conforms to paragraph 4, the control knob is axially movable and tiltable in a notch of the sheath of the system, or the wall of the notch situated in the direction of the release of control button order.presente encoulisse profiles of notches. / 13. In a system according to 1'alinea 5 »the tensioning device comprises a lever arm terminating, at one of its ends, by a fork and, in its part fork, there are pins which are received in lew BORE opposed the boit40ti or in a spindle perpendicular to the longitudinal axis of the housing present, has one of its ends, a look–in which can be pushed one of the branches of the range of the above lever, and whose other end is surrounded by the second leg of the fork, contoured thereto, 16. in the system conforms to paragraph 15 "lever presents a laterally open slot into which can be introduced 1'element junction, and which a clamping system consisting of a leaf spring and a clamping pieces is planned for the joining element. 17. In the system complies with paragraphs 5 and 15, the lever is fitted with a clamping system having a sleeve with a spring roll, a clamping pieces and a command button. / 18In a system conforming to paragraph 5, the tensioning device for fixing the cable, possesses a clamping eccentric or appendix has more windings. 19. In a system conforming to paragraph 6, a chamber receiving the clamping oiece in its open position is planned from the extremity of the bore inside shrunk, has the positive terieur the housing obliquely relative to the bore. / • '20. in a system conforming to paragraph 6, the pressure surface of the clamping pieces wife 1'element junction, or has a concave profile, so that the element junction in the locked state, can not escape laterally in the direction of the slot. z 21. A pierce ns a system conforming to paragraph 6, the slot is comic labyrinth, to prohibit 1'element a junction up slipping outwards. 22. In a system conforming to paragraph 6, the case is a sleeve of U cross–section, the open side may be mask by a cover. // 23. In a system complies with paragraphs 6 and 23 "cover slips into a sleeve wall, and a latch holding it in closed position. 24. In a system complies with paragraphs 6 and 22, the work– 5 slot obliquely pays the sleeve,

and the remaining 1 ss bore is closed. 25. In a system conforming to paragraph 6, there is a recovery ae mobile sleeve for covering the lateral slot. / 26. In a system conforming to paragraph 6, for fixing a connecting element stretched in both directions, the device 10 is a double or multiple clamping, or each of the two ends of a through room, springs are mounted, with the associated clamping pieces in the direction of opposite action. / 27. In a system conforms to 1'alinea 6, there is a stop appendix for fixing a mat or some other fixed point 15. / 28. In a system conforms to paragraph 7, an introduction slit and an exit slit open at an obtuse angle in the chamber of the tensioner. 29. In a system conforms to paragraph 7, a controller 20 is presented as a slide projecting over the length of the tensioner, with parts of lateral grip, and clamping parts are mobile montees on the slide, so that there is possibility of these parts rocking in a plane perpendicular to the surface of the belt. 25 30. In a system conforms to paragraph 7, the r clamping parts are dessinees flat profiles or in profile, an enlarged head is connected to a contact surface cannelee tour to the belt, and that, over and beyond a thinner tail ends with a positioning ball at the tip of the clamping pieces and gt; –. 31. Bans a consistent system to paragraph 7, the tensioner is double clasp with two clamping parts of games, springs, insertion slots and output, so that each of the pieces belt allows a shortening and a self–locking clamp, unless a set of clamp parts or agency a fixed hamjpe has a room of the belt, and the other to the other pieces of it. / 31. In a system complies with paragraphs 7 and 30, in each set of clamping pieces, the middle room is pear–shaped, and the parts, External is a flat profile. 33. In a. system complies with paragraphs 7 and 30, strips of thin sheet metal, cubits, hang on the tails of the clamping parts, and are connected to a mobile control slide on the upper side of the stretcher. 34. removable terminal Systeme several electrical conductors, according to the first paragraph, characterized by a certain number of sleeve–like parts placed at intervals from one another, each presenting an interior bore through and through, and two oblique bores opening adjacent one of the end openings of the inner bores, and a spring in each thereof; – By clamping parts fixed to each two ends de– 'springs, which press against the front openings; – Finally, a domino in synthetic material, or 5 boxes are the body or sleeve shaped parts. 35. In a system according to the first paragraph, the encounter bedrooms closing clamping parts and the ends of electrical conductors which are inserted therein, are mounted directly in the housing of an electrical device. / 10 36. In a removable connecting system of several con– electrical conductors, comply with the first paragraph, more conductive plate–shaped body, which have bores, rooms, springs and clamping parts are electrically separated the each other by plates in matters syn– 15 thetic and seizure dlun one piece by a common framework synthetic material; flat conductive bodies connecting bores Interior determined individual clamping parts, resulting in the block with each other. S 37.In a removable connecting system of several electrical conductors 20 ers, according to the first paragraph, the s BORE inte– laughing containing the springs range from a side wall of a block of conductive material, up to the side wall oppcsee. / 38. In a system complies with paragraphs 1 and 36, the conductor block e t and cylindrical, and obliques BORE 25 out of its sheath surfacede 39. • System conforms to paragraph 36, or, the plate–shaped body, slits run parallel to the bores inte– laughing, they intersect; a control rod springs and parts of serrere through the body from side to side through one set of internal bores, slide it. 40. In a system according to the first paragraph, is a control device is by; a source of a pressurizing agent, by means of which a pressure is created in the current boring or are the springs and alleviates the room clamping despite the spring thereof. '41. In a system conforms to 1'alinea 40, the room, the municipality bore interior and the oblique bore, which contains the clamping pieces, communicates on one side with an opening for people brought \ l admission of compression agent, and on the other side, ith an event for 1'evacuation has the same agent; a retreo. ng the venturi nozzle is placed in the current direction, in front of the chamber. 42. In a system 'in conformity to paragraph 39 for connecting cables or other extremities son multiple beams, the rooms are connected by channel way to make possible the simultaneous control of a large number of control rooms • / "43. in a system conforms to paragraph 39, the ends of the son are entered in sheets or in gutter spoon, which are introduced in the rooms, and maintained self–locking by the clamping pieces / electrical contact 44. System according to the first paragraph, or, for the ns. ength of the room and into the wall thereof, there is an "electrical conductive strip on which electrical connection has coupling. 45 ss ystem conform to paragraph 44 ", or in a clamping domino, there are two neighboring rows of rooms in the common coprs, and the rooms OPPOSING ccording respectively an acute angle open in the direction d1introduction while conductive strips have a general V–shape and connecting the s / s with a other rooms that. are; 6 In a system conforms to paragraph 44, the oblique bore relative to the axis of the chamber that receives the clamping room is an enclosed room to the outside, to receive 1'extremite introduced the driver. 47. In a system conforms to paragraph 44, a lip estampee in the conductive tape at the entrance to the next room, receives the extremity of the driver. 48. In this same system, the conductive strip is tiree in the wall of the room suivante.y 49. In this same system, the clamping coin depicts a cross bore has introduced 1'extremite driver, and a control element can will be introduced to unlock the extremity of the driver. 50. "In a system, –elon the paragraph. 49" control element is one that extends in 1'alesage the clamping pieces and is guided into the slots being managed according to the axis of the tale room.. – ing clamping pieces z 5'1 "in a system conforms to paragraph 45" all clamp bodies of each row, with their bores, are strung with a certain interval, each on a rod; the stem synthetic material present bulges for the maintenance intervals of the clamping parts, and is kept rotating in the clamping nephews. z 52. In a system conforms to paragraph 51, there is a slide sliding in each of the slots of the clamp body domino, which acts on the two rods supporting the clamping parts, will extend ever, with a certain interval between them in the longitudinal direction of domino connection, so that maneuvering in a first direction, the clamping parts therein tent rapporteurs, on the first side of the domino, are brought into play; in the other direction, it is the opposed clamping parts. 55. In a system conforms to paragraph 44, the conductive strip is housed in a groove in the wall of his room 54. yn system conforms to paragraph 44 "the conductive strip presents a recess directed in length the extremity of the driver, she receives. BUGNION – UBAF S. A. B. P. 4038 NLONGKAK– YAOUNDE / CAMEROON

0) US4657110A – INERTIA ROPE GRAB

16) Family number: 1975482 (US4657110A) © PatBase

Title: INERTIA ROPE GRAB

Priority: CA19850480060 19850425 US19840679624 19841210

Family:

Publication number	Publication date	Application number	Application date
CA1241937 A1	19880913	CA19850480060	19850425
DE3543464 A1	19860612	DE19853543464	19851209
DE3543464 C2	19900201	DE19853543464	19851209
FR2574511 A1	19860613	FR19850014280	19850926
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GB2168102 B2	19870923	GB19850011228	19850502
GB8511228 A0	19850612	GB19850011228	19850502
US4657110 A	19870414	US19840679624	19841210

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International class (IPC 8–9): A62B1/06 A62B35/04 (Advanced/Invention); A62B35/00 (Core/Invention)

International class (IPC 1–7): A62B1/06 A62B1/14 A62B35/00 A62B37/00 F16G11/04 F16G11/10

CPC: A62B1/14

European class: A62B1/14 A62B35/04

US class: 182/192 182/5 188/65.2

Classification Explorer

Cited documents: US4542884 A, US4521000 A, US4077094 A, US4071926 A, US4034828 A, US3876036 A, US3177543 A, US2606350 A, US1924438 A, US1409430 A, FR2547006 A1, FR2457361 A1, FR2417988 A1, DE2812073 A1,

Forward Citations: WO9802210, USD764258, USD746125, USD739212, USD722487, USD710679, USD710678, US9707419, US9636528, US9498660, US9328765, US9322428, US9192792, US9168402, US9132297, US8752254, US8657068, US8464832, US8333357, US8281895, US8245360, US8225905, US7647677, US6161647, US6019195, US6009977, US5924522, US5664640, US5638919, US5360082, US5146655, US2015352383, US2015114752, US2014196989, US2014020988, US2014020983, US2010230572, US2010126802, US2010058561, US2010012425, US2009200107, US2007062014, US2006054386, JP2015531617, GB2514155, FR2757774, FR2751233, FR2667791, FR2638094, EP0861678, EP0859648,

Abstract:
Source: US4657110A A safety device is provided for removably fastening to a safety line a rope grab which contains both inertia and positive locking features. A roller is provided in angled guide tracks to provide an inertia locking effect while a pivot arm can bear against the roller to provide positive locking as well.

0) US6155617A – TAMPER RESISTANT CABLE SEAL

17) Family number: 14926415 (US6155617A) © PatBase

Title: TAMPER RESISTANT CABLE SEAL

Priority: US19970053794P 19970725 US19970057727P 19970828 US19980120223 19980721 US19970067757P 19971210

Family:

Publication number	Publication date	Application number	Application date
US6155617 A	20001205	US19980120223	19980721

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International class (IPC 8–9): F16G11/04 F16G11/10 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7): F16G11/00

CPC: G09F3/0352 Y10T292/48 Y10T292/496 F16G11/02 F16G11/108 F16G11/14

European class: F16G11/04 F16G11/10 G09F3/03A6B

US class: 292/307R 292/318

Classification Explorer

Cited documents: US5820176 A, US5647620 A, US5352003 A, US5147145 A, US4681356 A, US4141117 A, US3994521 A,

Forward Citations: WO11066494, USD553575, US9558682, US9220310, US9194452, US9026578, US8931606, US7708653, US7641062, US7478847, US7472933, US7461726, US7367898, US7243963, US7172225, US7073828, US6948746, US6946961, US6946180, US6693552, US6550830, US6540273, US6457754, US6345847, US2017178546, US2013200637, US2013069375, US2011012377, US2010313745, US2009071211, US2008268978, US2008023616, US2007273161, US2007262593, US2007069528, US2007068755, US2006191403, US2006163886, US2006131895, US2006049646, US2005040949, US2005006910, US2002160173, RU2533110, MD4230, MD4230, MD267, MD267, KR101035069, EP1644603, EA015367, EA015242,

Abstract:
Source: US6155617A Several embodiments of a wire cable seal are shown. They use a cylindrical body having a passage intersected by two or three slots. Each slot receives a disk rolling in the slot. The slot tapers to pinch the cable in the passage with the disk. Each disk is separately spring loaded to protrude and pinch the cable. The multiple disks are located at different heights and different angles.

0) WO9830433A1 – IMPROVED BICYCLE BRAKING SYSTEM SYSTEME DE FREI...

18) Family number: 11193027 (WO9830433A1) © PatBase

Title: IMPROVED BICYCLE BRAKING SYSTEM

Priority: NZ19970314043 19970109 WO1998NZ00001 19980109

Family:

Publication number	Publication date	Application number	Application date
AU199853510 A1	19980803	AU19980053510	19980109
WO9830433 A1	19980716	WO1998NZ00001	19980109

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Inventor(s):(std)**:** PHILLIPS JONATHAN

Inventor(s): JONATHAN PHILLIPS

Designated states: AL AM AT AU AZ BA BB BE BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL SZ TJ TM TR TT UA UG US UZ VN YU ZW

International class (IPC 8–9)**:** B62L5/00 (Advanced/Invention); B62L5/00 (Core/Invention)

International class (IPC 1–7)**:** B60T11/08 B62L3/00 B62L5/00 B62L5/10 B62L5/18 B62L5/20 F16G11/12

CPC: B62L5/00

European class: B62L5/00

Classification Explorer

Cited documents: US5524733 A, US5337861 A, US4854426 A, US4235046 A, US4199046 A, GB2028736 A1, FR2270139 A1, AU5127096 A1,

Forward Citations: US7630690, DE102012017690,

Abstract:
An improved foot–actuated bicycle braking system is described. A first invention lies in a chain–side spider assembly adapted so that there is no lockup when a rider re–starts forward pedalling after braking via back pedalling. To this end, there is provided a degree of relative movement between the spider (or sprocket hub) (26) and the crank arm (25). The engagement mechanism comprises a limited movement dog clutch (51, 33) allowing limited rotational movement between spider and crank arm. The crank arm is biased by means of a spring mechanism which biases the crank arm against the hub or spider. The spring acts as a return spring and absorbs the shock when the cyclist begins forward pedalling. A second invention lies in a unidirectional roller bearing clutch mounted integrally with the axle end of the crank. The resulting component may be mounted upon a pre–existing bottom bracket axle and be connected to braking actuation means which operates front and/or rear brakes. A third invention lies in adjustable retention provided to the front and/or rear brakes by using a novel bias clamp. The bias clamp is constructed in the form of an integrated locking device having a labyrinth located therein in such a manner that, when a brake cable is threaded through the labyrinth, the brake cable biases against itself and the bias clamp thereby locks the brake cable in relation to itself. The bias clamp also provides a means of adjusting the front and rear braking forces to suit a user. The adjustment is effected by means of the specific location of the braking actuation means connection to the bias clamp. The present improved bicycle system may find application in virtually any chain–driven device, particularly off–road bicycles where hand–braking may be inadequate or uncomfortable.

0) US2003062460A – SUSPENDING EQUIPMENT

19) Family number: 15997019 (US2003062460A) © PatBase

Title: SUSPENDING EQUIPMENT

Priority: CA20022398883 20020820 GB20010020523 20010823 GB20010026179 20011101

Family:

Publication number	Publication date	Application number	Application date
AU2002300611 AA	20030612	AU20020300611	20020819
AU2002300611 BB	20070125	AU20020300611	20020819
BE1015078 AF	20040907	BE20020000492	20020822
BRPI0203354 A	20030624	BR2002PI03354	20020820
CA2398883 AA	20030223	CA20022398883	20020820
DE10239272 A1	20030306	DE20021039272	20020822
ES2234363 AA	20050616	ES20020001973	20020823
ES2234363 BA	20060401	ES20020001973	20020823
FR2828925 A1	20030228	FR20020010520	20020823
FR2828925 B1	20050429	FR20020010520	20020823
GB200120523 A0	20011017	GB20010020523	20010823
GB200126179 A0	20020102	GB20010026179	20011101
GB200130428 A0	20020206	GB20010030428	20011220
GB2378979 A1	20030226	GB20010030428	20011220
GB2378979 B2	20030730	GB20010030428	20011220
ITMI20021834 A1	20030224	IT2002MI01834	20020820
LU90947 A1	20031217	LU20020090947	20020821
NL1021321 A1	20030225	NL20021021321D	20020822
NL1021321 C2	20030520	NL20021021321	20020822
NZ520952 A	20030131	NZ20020520952	20020822
PT102832 A	20030228	PT20020102832	20020821
US2003062460 AA	20030403	US20020227103	20020823
US7063299 BB	20060620	US20020227103	20020823
ZA200206738 A	20030411	ZA20020006738	20020822

Probable Assignee: GRIPPLE LTD

Assignee(s):(std)**:** BOALER DEREK ; FACEY HUGH DAVID ; GRIPPLE LTD ; GRIPPLE LTD OLD WEST GUN W ; GRIPPLE LTD INC ; GRIPPLE OLD WEST GUN WORKS LTD ; GRIPPLE LIMITED INC ; GRIPPLE LTD THE OLD WEST GUN W ; MAKIN JOHN

Assignee(s): GRIPPLE LIMITED THE OLD WEST GUN WORKS ; GRIPPLE LTD SHEFFIELD ; GRIPPLE INC LTD ; GRIPPLE LIMITED

Inventor(s):(std)**:** DEREK VOALER ; HUGH DAVID FACEY ; VOALER DEREK ; MAKIN JOHN ; JOHN MAKIN ; FACEY HUGH DAVID ; DEREK BOALER ; DAVID FACEY HUGH ; BOALER DEREK

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; ROBIC; TREXLER BUSHNELL GIANGIORGI BLACKSTONE AND MARR LTD

International class (IPC 8–9): B66C1/12 E04B9/18 F16G11/04 F16G11/10 F16G11/14 F16L3/14 H02G3/30 (Advanced/Invention); F16B2/14 F21V21/008 F21V21/16 (Advanced/Non–invention); B66C1/12 E04B9/18 F16G11/00 F16L3/14 H02G3/30 (Core/Invention); F16B2/02 F21V21/008 F21V21/14 (Core/Non–invention); B66F F16G F16M (Subclass/Invention)

International class (IPC 1–7): A47H1/10 B66C1/12 B66F F16B2/18 F16B39/10 F16G F16G11/00 F16G11/02 F16G11/04 F16G11/10 F16G11/14 F16M F16M13/00 F21V21/00 F21V21/16

CPC: F16G11/106 F16G11/14 F16B2/14 F21V21/008 F21V21/16 F16G11/10 H02G3/381

European class: F16G11/10 F16G11/14 R16B2/14 R21V21/008 R21V21/16

US class: 248/317 248/32 248/320 248/328

Classification Explorer

Cited documents: US6058574 A, US6053457 A, US6003210 A, US5738466 A, US5582447 A, US5513923 A, US4709922 A, US4556184 A, US3077809 A, US2005334 A, US1271383 A, JP9151996 A2, JP303612, JP2000303612 A2, JP11201237 A2, GB2298436 A1, EP0926393 A1, DE7908513 U,

Forward Citations: WO12095075, WO12095075, WO11004152, WO07031730, USD777150, USD772847, USD734140, USD639151, US9599191, US8112847, US7314202, US2015132050, US2012160151, US2010279540, US2010108845, US2010078540, US2009224138, US2008264884, US2006186300,

Abstract:
Source: US2003062460A Means for suspending equipment (32) from an overhead structural member (21) comprises a suspension strand (11), e.g. of wire or wire rope, provided at one end with a screwthreaded portion (12), together with a locking device (13) having twin bores (14A, 14B) each preferably associated with wedging means (15A, 15B) preventing withdrawal of the free end (16) of the strand (11) in the opposite direction to insertion. The screwthreaded portion (12) may be screwed into the overhead structural member (21), or into the equipment (32), the free end (16) of the strand (11) passed through one bore (14A) of the locking device, through an eye (31) on the equipment (32) or round the equipment, or through an eye (38) on the overhead structural member (21) or round the overhead structural member, then back through the other bore (14B) of the locking device (13) to be secured therein by the wedging means (15B). Other methods are also described and claimed, as well as equipment suspension kits.

0) GB1510593A – MONO–CABLEWAYS

20) Family number: 1193067 (GB1510593A) © PatBase

Title: MONO–CABLEWAYS

Priority: CH19750001194 19750131

Family:

Publication number	Publication date	Application number	Application date
AT348015 B	19790125	AT19760000597	19760128
AT59776 A	19780615	AT19760000597	19760128
CA1043284 A1	19781128	CA19760244616	19760130
CH596018 A	19780228	CH19750001194	19750131
FR2299200 A1	19760827	FR19760002661	19760130
FR2299200 B3	19781020	FR19760002661	19760130
GB1510593 A	19780510	GB19760003737	19760130
IT1053483 A	19810831	IT19760047884	19760130

Probable Assignee: STREIFF MATHIAS AG

Assignee(s):(std)**:** STREIFF AG MATHIAS ; STREIFF M AG ; STREIFF MATHIAS AG

Assignee(s): STREIFF MATHIAS ; MATHIAS STREIFF AG ; STREIFF AG M

Inventor(s):(std)**:** STREIFF MATHIAS

Inventor(s): ERFINDER HAT AUF NENNUNG VERZICHTET ; MATHIAS STREIFF

International class(IPC 8–9)**:** B61B11/00 B61B12/12 (Advanced/Invention); B61B12/00 (Core/Invention)

International class(IPC 1–7)**:** B61B11/00 B61B12/02 B61B12/12 B61B7/04 F16G11/00 F16G11/06

CPC: B61B12/12

European class: B61B12/12

Classification Explorer

Abstract:
Source: GB1510593A 1510593 Cable clamps MATHIAS STREIFF AG 30 Jan 1976 [31 Jan 1975] 3737/76 Heading D1T [Also in Division B7] A cable clamp assembly has a U–shaped clamp 1 in which is a saddle–shaped clamping element 4, the cable 9 being gripped therebetween. The clamp 1 may have ribs 18 that fit into the helical grooves between the individual wire strands. Screws 20 compress the cable 9 between the clamp 1 and the clamping element 4. This compression may be via springs to compensate for variations in the diameter of the cable under load.

0) ES1070442U – DISPOSITIVO DE CONEXION PARA CABLES DE TRACCION...

21) Family number: 43648273 (ES1070442U) © PatBase

Title: DISPOSITIVO DE CONEXION PARA CABLES DE TRACCION CABLE CONNECTION DEVICE DRIVE (Machine translation)

Priority: ES20090030067U 20090505

Family:

Publication number	Publication date	Application number	Application date
ES1070442 UA	20090827	ES20090030067U	20090505
ES1070442 Y1	20091118	ES20090030067U	20090505

Probable Assignee: APOLO FIJACIONES Y HERRAMIENTA

Assignee(s):(std)**:** APOLO FIJACIONES Y HERRAMIENTA

Assignee(s): APOLO FIJACIONES Y HERRAMIENTAS S L

Inventor(s):(std)**:** CERAVALLS PUJOL RAMON ; LOPEZ PUCHE NURIA

International class (IPC 8–9): F16G11/14 (Advanced/Invention); F16G11/00 (Core/Invention)

Classification Explorer

Abstract:
Source: ES1070442U 1. Dispositivo de conexion de cables de traccion, que comprende una carcasa (1), dos canales de paso (2, 3) sustancialmente paralelos para sendos tramos de cable (4, 5), comprendiendo cada canal (2, 3) un tramo (6) de seccion variable, y sendas piezas (7a, 7b) para bloquear los tramos de cable (4, 5) en dichos canales (2, 3) por desplazamiento de dichas piezas (7a, 7b) en direccion de seccion decreciente a posiciones de bloqueo del cable por compresion y medios elasticos para empujar dichas piezas (7a, 7b) en direccion a los cables, caracterizado por el hecho de que dichos medios elasticos para empujar dichas piezas (8a, 8b) son unos resortes dispuestos de modo que ejercen una fuerza sobre dichas piezas (7a, 7b) sustancialmente perpendicular a dichos canales (2, 3), y por el hecho de que dichas piezas (7a, 7b) tienen una seccion circular. 2.Dispositivo segun la reivindicacion 1, en el que dichos resortes (8a, 8b) son resortes de torsion. 3. Dispositivo segun la reivindicacion 2, en el que dichos resortes de torsion (8a, 8b) son dos espirales de un mismo alambre (9) que rodean a la carcasa (1). 4. Dispositivo segun la reivindicacion 3, en el que dicho alambre (9) comprende en sus dos extremos sendos tramos (10a, 10b) sustancialmente rectos que sobresalen de dichas espirales, dispuestos de modo que ejercen una fuerza sobre dichas piezas (7a, 7b). 5. Dispositivo segun la reivindicacion 1, en el que dichos medios elasticos (8a, 8b) son unos resortes de compresion que actuan sobre sendos brazos articulados, de modo que dichos brazos ejercen una fuerza sobre dichas piezas (7a, 7b). 6. Dispositivo segun cualquiera de las reivindicaciones anteriores, en el que dichas piezas (7a, 7b) son unos rodillos. 7. Dispositivo segun la reivindicacion 6, en el que dichos rodillos (7a, 7b) comprenden dos secciones cilindricas de diferentes diametros, de modo que dichos medios elasticos (8a, 8b) ejercen fuerza sobre la seccion de diametro menor y los rodillos (7a, 7b) ejercen fuerza sobre los tramos de cable (4, 5) a traves de la seccion de diametro mayor. 8. Dispositivo segun cualquiera de las reivindicaciones anteriores, en el que por lo menos uno de dichos canales (2, 3) comprende un encaje (11) entre el tramo (6) de seccion variable y el extremo del canal correspondiente a la parte de menor seccion de dicho tramo, destinado a la introduccion de una pieza alargada para el empuje de dicha pieza (7a) de modo que se pueda sacar el tramo de cable (4) en la direccion donde se produce el bloqueo del tramo de cable (4) en ausencia de dicha pieza alargada. 9.Dispositivo segun cualquiera de las reivindicaciones anteriores, que comprende una funda de plastico (12) que envuelve dicha carcasa (1) de modo ajustado. 10. Dispositivo segun cualquiera de las reivindicaciones anteriores, en el que dichos tramos de cable (4, 5) son dos tramos de un mismo cable.

Machine translation: 1. Device traction cable connection, comprising a housing (1), two flow channels (2, 3) substantially parallel to two separate lengths of cable (4, 5), each comprising channel (2, 3) a section (6) of variable section, and tracks parts (7a, 7b) to block lengths of cable (4, 5) in these channels (2, 3) displacement of the parts (7a, 7b) in the direction of decreasing section positions locking the cable by compression and elastic means for pushing said parts (7a, 7b) in the direction of the wires, characterized by the fact that said elastic means for pushing said parts (8a, 8b) are arranged so springs that exert a force on said parts (7a, 7b) substantially perpendicular to said channels (2, 3), and by the fact that said parts (7a, 7b) have a circular cross–section. 2.Dispositivo according to claim 1, wherein said springs (8a, 8b) are torsion springs. 3. Device according to claim 2, wherein said torsion springs (8a, 8b) are two coils of a same wire (9) surrounding the casing (1). 4. Device according to claim 3, wherein said wire (9) comprises at its two ends two separate portions (10a, 10b) projecting substantially straight from said spirals, arranged to exert a force on said parts (7a, 7b). 5. Device according to claim 1, wherein said elastic means (8a, 8b) are compression springs which act on respective articulated arms so that said arms exert a force on said parts (7a, 7b). 6. Device according to any of the preceding claims, wherein said parts (7a, 7b) are rollers. 7. Device according to claim 6, wherein said rollers (7a, 7b) comprise two cylindrical sections of different diameters, so that said elastic means (8a, 8b) exert force on the smaller diameter section and the rollers (7a, 7b) exert force on the cable runs (4, 5) through the larger diameter

section. 8. Device according to any of the preceding claims, wherein at least one of said channels (2, 3) comprises a socket (11) between the section (6) of variable section and the end of the channel corresponding to the portion of lower section of that section, for the introduction of an elongated piece for pushing said part (7a) so that they can make the cable run (4) in the address where the crash occurs the cable harness (4) in absence of said elongated member. 9.Dispositivo according to any of the preceding claims, comprising a plastic sleeve (12) that surrounds said housing (1) of the set mode. 10. Device according to any of the preceding claims, wherein said lengths of cable (4, 5) are two sections of the same cable.

0) US4862821A – MECHANISM FOR TENSIONING A MOVING CHAIN

22) Family number: 3153611 (US4862821A) © PatBase

Title: MECHANISM FOR TENSIONING A MOVING CHAIN

Priority: CA19870536953 19870512

Family:

Publication number	Publication date	Application number	Application date
BRPI8802285 A	19881213	BR1988PI02285	19880511
CA1286923 A1	19910730	CA19870536953	19870512
GB2204667 A1	19881116	GB19880011090	19880511
GB2204667 B2	19900307	GB19880011090	19880511
GB8811090 A0	19880615	GB19880011090	19880511
NO168573 B	19911202	NO19880002082	19880511
NO168573 C	19920311	NO19880002082	19880511
NO882082 A	19881114	NO19880002082	19880511
NO882082 A0	19880511	NO19880002082	19880511
US4862821 A	19890905	US19880192763	19880510

Probable Assignee: AEPI ACQUISITION INC

Assignee(s):(std): HEPBURN JOHN T LTD

Assignee(s): JOHN T HEPBURN LTD ; JOHN T HEPBURN LIMITED ; HEPBURN LIMITED JOHN T ; AEPI ACQUISITION INC ; AMCLYDE ENGINEERED PRODUCTS INC ; AMCLYDE ENGINEERING PRODUCTS CO INC ; BALLANTYNE RONALD ; HEPBURN JOHN T LIMITED

Inventor(s):(std): BALLANTYNE RONALD

Inventor(s): RONALD BALLANTYNE

Agent(s): WARAKSA MIREK A

International class (IPC 8–9): B63B21/22 B63B21/24 B66D1/72 (Advanced/Invention); B63B21/00 B66D1/00 (Core/Invention)

International class (IPC 1–7): B63B21/04 B63B21/08 B63B21/24 B66D1/395 B66D5/00 B66D5/32 F16G11/00

CPC: B63B21/04 B63B21/18 B63B2021/003 B66D1/72

European class: B63B21/22 B66D1/72

US class: 114/200 114/293 188/65.1 254/372

Classification Explorer

Cited documents: US4476801 A, US3547066 A, US3540396 A, GB978930 A, GB978929 A, GB938268 A, GB863283 A, GB1211891 A, GB1201739 A,

Forward Citations: WO9840306, WO05035352, US9567039, US9381977, US9126659, US9003994, US8915205, US8601919, US7866080, US7540254, US7523920, US7392757, US7104214, US7104214, US5984586, US5934216, US5845893, US2015191218, US2014346420, US2014339485, US2014026796, US2012160146, US2010313460, US2008190344, US2007144043, US2006283368, US2005072347, EP0399335, DK178896, CN102050202,

Abstract:
Source: US4862821A In an anchoring system for a floating vessel which includes an anchor line comprising chain cable, a chain locker and a windlass having a chain wheel that conveys the chain cable during paying out from the chain locker, a mechanism is positioned between the chain locker and chain wheel to back–tension the chain during paying out. The mechanism has an axis along which the chain is passed with every second links oriented in a given plane. Paired brake shoes are positioned to either side of the plane and define braking surfaces of sufficient extent along the axis of chain movement that a given chain link and an immediately succeeding link of similar orientation can be simultaneously engaged during their movement to provide a continuous retarding effect. One pair of braking shoes is pivotally mounted on an appropriate support structure and urged with hydraulic cylinders towards the other pair thereby causing the brake shoes to engage the opposing faces chain link. The pressure of hydraulic fluid applied to the cylinders is adjusted to back–tension the chain sufficiently that sudden

shocks to the windlass otherwise occasioned by tilting and jumping of chain links during conveyance over the chain wheel are avoided. Non−standard links and irregularities in the chain link surfaces such as weld lines are accommodated by contraction of the hydraulic cylinders and deflection of the pivoting brake shoes.

0) US6019195A – FALL PREVENTION DEVICE FOR VERTICAL CABLE

23) Family number: 12027158 (US6019195A) © PatBase

Title: Fall prevention device for vertical cable

Priority: CA19992276858 19990630 FR19980008548 19980703

Family:

Publication number	Publication date	Application number	Application date
CA2276858 AA	20000103	CA19992276858	19990630
CA2276858 C	20061003	CA19992276858	19990630
FR2780656 A1	20000107	FR19980008548	19980703
FR2780656 B1	20010803	FR19980008548	19980703
US6019195 A	20000201	US19990339900	19990625

Probable Assignee: DALLOZ FALL PROTECTION

Assignee(s):(std)**:** DALLOZ FALL PROT ; DALLOZ FALL PROTECTION

Assignee(s): DALLOZ FALL PROTECTION BP ; PELOFI PIERRE GEORGES ; CHASE MANHATTAN INT

Inventor(s):(std)**:** PELOFI PIERRE GEORGES

Agent(s): ROBIC

International class (IPC 8–9)**:** A62B1/14 A62B35/00 F16G11/04 (Advanced/Invention); A62B1/00 A62B35/00 F16G11/00 (Core/Invention)

International class (IPC 1–7)**:** A62B1/14 A62B1/20 A62B35/00 F16G11/04

CPC: A62B1/14

European class: A62B1/14

US class: 182/192 182/193 188/65.2 188/652

Classification Explorer

Cited documents: US5638919 A, US5323873 A, US5265696 A, US5156240 A, US4657110 A, FR2638094 A1, FR2417988 A1,

Forward Citations: WO05044383, WO02064215, US9757598, US9636528, US9168402, US9132297, US8794379, US8657068, US8348016, US8333357, US8281895, US8225905, US7080716, US6823966, US6633120, US6346771, US2015352383, US2015114752, US2014020988, US2014020983, US2013256061, US2010230572, US2010126802, US2010012425, US2009200107, US2009188753, US2009008188, US2007107984, US2006102421, US2004129494, FR2820641, ES2366529, EP2463160, EP1359980,

Abstract:
Source: US6019195A A fall prevention device for a vertical cable includes a body with a gutter for guiding the cable. The body supports a pin on which is articulated a lever one end of which ends in a cam which can clamp the cable against the bottom of the gutter and the other end of which is fastened to a ring. The cam is spring–loaded against the cable. A knurled wheel cooperating at all times with the cable rotates on a pin above the articulation axis of the lever. The ring has lateral teeth and is mounted to pivot on the lever so that, when the ring is pushed, the teeth can be caused to engage with the knurled wheel.

0) GB2365915A – CABLE LOCK AND SEAL DEVICE

24) Family number: 14614996 (GB2365915A) © PatBase

Title: CABLE LOCK AND SEAL DEVICE

Priority: GB20000020131 20000817

Family:

Publication number	Publication date	Application number	Application date
GB200020131 A0	20001004	GB20000020131	20000817
GB200119683 A0	20011003	GB20010019683	20010813
GB2365915 A1	20020227	GB20010019683	20010813
GB2365915 B2	20040609	GB20010019683	20010813

Probable Assignee: BLOXWICH TRANSP ATION PRODUCTS

Assignee(s):(std)**:** BLOXWICH ENG ; BLOXWICH TRANSP ATION PRODUCTS

Assignee(s): BLOXWICH TRANSPORTATION PRODUCTS LIMITED ; BLOXWICH TRANSPORTATION PRODUCTS LTD ; BLOXWICH ENGINEERING LTD

Inventor(s):(std)**:** BROWN CLIVE ALBERT

Inventor(s): CLIVE ALBERT BROWN

International class (IPC 8–9)**:** F16G11/04 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7)**:** B65D33/34 F16G11/04 F16G11/14

CPC: F16G11/02 F16G11/108 F16G11/14 G09F3/0352

European class: F16G11/04 G09F3/03A6B

Classification Explorer

Cited documents: WO9318316 A1, US5222776 A, EP0861994 A2,

Forward Citations: WO06137722, FR2881560, EP1899234,

Abstract:
Source: GB2365915A A cable lock and seal device has a body 1 enclosing friction member 8 held by a spring 14 and having a through passage 21–22, and a flexible inextensible member 2 having one end 20 attached to the body, the opposite end 25 being adapted to pass through the passage and engage with the friction member 8 to prevent movement or withdrawal of the flexible member in the opposite direction. The body 1 comprises a cast or moulded casing 3 which is closed at one end and is open at the other end, and an end cover 7 adapted permanently to close the open end of the casing 3. One end of the flexible inextensible member 20 is attached to the casing 3 by being cast or moulded into the casing and is permanently connected thereto so that it projects from the closed end.

0) GB1086058A – IMPROVEMENTS RELATING TO RELEASABLE COUPLINGS

25) Family number: 22887742 (GB1086058A) © PatBase

Title: IMPROVEMENTS RELATING TO RELEASABLE COUPLINGS

Priority: FR19640983965 19640803 GB19630030837 19630802

Family:

Publication number	Publication date	Application number	Application date
DE1253970 B	19671109	DE1964F043631	19640731
ES302736 A1	19650316	ES19640302736	19640801
FR1409505 A	19650827	FR19640983965	19640803
GB1086058 A	19671004	GB19630030837	19630802

Probable Assignee: FAIREY ENG

Assignee(s):(std)**:** FAIREY ENG ; FRAIREY ENGINEERING LTD

Assignee(s): FAIREY ENGINEERING LIMITED ; FAIREY ENGINEERING LTD ; FRAIREY ENGINEERING LIMITED

Inventor(s):(std)**:** THOMAS GLYN ELROY ; THOMAS GLYN ELOY

International class (IPC 8–9)**:** F16G11/00 F16G11/10 G21C1/30 (Advanced/Invention); F16G11/00 G21C1/00 (Core/Invention)

International class (IPC 1–7)**:** F16G11/00 F16G11/10 F16H19/06 F16H7/02 F16H7/22 G21C1/30

CPC: Y02E30/40 G21C1/303

European class: F16G11/00 F16G11/10 G21C1/30B S21C1/30B Y02E30/40

Classification Explorer

Cited documents: US950975 A, FR1054584 A, CH237461 A,

Forward Citations: DE1297429,

Abstract:
Source: GB1086058A 1,086,058. Cable grips; screw and nut gearing. FAIRY ENGINEERING Ltd. July 31, 1964 [Aug. 2, 1963], No. 30837/63. Headings F2Q and F2X. Sample carriers 12, 15 oscillating in an exchangeable nuclear reactor core void are attached to double cable loops 13 releasably coupled to a single driving oscillating cable loop 18 by a coupling 19 comprising, a block 60 in the cable loops 13 having spring–opened jaws 63 and a block 61 in the cable driving loop 18 adapted to be held by the jaws 63, which have overlapping tails 67 depressed by the block 61 when it is inserted between the jaws 63 so that the jaws pivot to embrace and hold block 61. The block 61 has edge channels 65 axially held and gripped by jaws 63. The jaws 63 are sprung by leaf springs 68 and pivoted at 66. When the jaws have been closed by the entry of block 61, a bolt 70 is shot by springs 77 into aligned jaw–tail holes 71 locking the jaws. To release the jaws a key 80 pushes the bolt 70 out of holes 71 until its reduced centre portion 83 lies in holes 71 allowing the jaws 63 to spring open. Whilst jaws 63 are open the key, which also starts the main drive motor, may not be removed from block 60. A ball catch helps to retain the key 80 in the block 60. Blocks 60, 61 are pivotally attached to the eyed–ends of cables 13, 18. The cable loops 13, 18 have tensioners 14a, 20a, one of which 14a is sprung. The driving cable loop 18 is driven from a rotatably oscillated drum 21 fast on a rotatable but axially restrained recirculating–ball nut 34 engaged by a reciprocating non–rotatable lead screw 32 integral with an hydraulic ram 28. The nut 34 has two parts 34a, 34b preloaded by contra–rotation to take up backlash, and runs in a fixed housing race 35. The lead screw 32 has longitudinal grooves 38 engaging with a re–circulating ball keying sleeve 40, Fig. 5. The ram is operated from a pump–fed hydraulic accumulator 50 through an electric servo valve 29 receiving signals from a remote control panel. Valves 52 relieve the pump when the accumulator shut–off valve 51 is closed. The cable drum 21 is electromagnetically braked at 54 and has an angular–position feedback potentiometer 57. An auxiliary hand and/or electric motor driving cable loop 23 (Fig. 3) is provided having a coupling block 61 for selective coupling to the block 60 in cables 13. Cable 23 is wrapped around a drum 90 driven by a motor 92 or hand wheel 91 with a revolution counter 93. Limit switches 96, 97 triggered by block 61 on loop 23 stop the electric motor 92 so that the carriers 12, 15 may be hand driven to a loading position. Switches 98 triggered by the coupling 60, 61 signal the limits of carrier travel to the control panel. The double carrier cable loops 13 are carried by pulleys 14 and the vertical portion carrying carriers 12, 15 is hung from an arm so that it is adjustable angularly and radially.

0) CA1314387A – CABLE LOCK SEAL PLOMB–CADENAS

26) Family number: 8959727 (CA1314387A) © PatBase

Title: CABLE LOCK SEAL

Priority: CA19880585495 19881209

Family:

Publication number	Publication date	Application number	Application date
CA1314387 A1	19930316	CA19880585495	19881209

Probable Assignee: TRITTON LTEE LES ENTREPRISES

Assignee(s):(std)**:** TRITTON LTEE LES ENTREPRISES ; TRITTON VICTOR R

Assignee(s): TRITTON VICTOR ROBERT ; CANADA MAYER INC ; TRITTON ENTERPRISES LTD ; TRITTON GARY EDWARD

Inventor(s):(std)**:** TRITTON GARY E ; TRITTON VICTOR R

Inventor(s): TRITTON VICTOR ROBERT ; TRITTON GARY EDWARD

Agent(s): MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP

International class (IPC 8–9): F16G11/04 F16G11/10 F16G11/14 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7): F16G11/14

CPC: G09F3/0352 F16G11/106 F16G11/14

European class: F16G11/04 F16G11/10 G09F3/03A6B

Classification Explorer

Forward Citations: US6557217,

Abstract:
Source: CA1314387A This invention provides a sealing device comprising: an outer hollow housing comprising top, bottom, front and rear walls and having opposed open sides; the outer housing is adapted to at least partially enclose an inner housing which comprises front, rear and opposed side walls with an open top and bottom. The front, rear and side walls of the inner housing are adapted to project at least partially beyond the front and rear walls of the outer housing in an assembled condition to form a pair of opposed, spacedapart, cable receiving channels extending from the top to the bottom of the inner housing. A length of high strength cable means having opposed free ends which free ends have at least a portion thereof of a deformable nature are also provided. Cable engaging and locking means adapted to fit within the inner housing and comprising an obliquely extending cam receiving surface are provided in the sealing device, with the cam receiving surface having a recessed area and an opposed surface having a pair of spaced apart projections thereon, forming a cable receiving land portion between the spaced–apart projections. The cable engaging and locking means have a top portion of a width greater than a bottom portion thereof. Rotatable cable engaging cam means are adapted to ride on the cam receiving surface of the cable engaging and locking means and in use to engage the recessed area of the cam receiving surface. Stop means extend from the cable engaging and locking means, the stop means preventing downward vertical movement of the cam means beyond a predetermined point in the inner housing.

0) US2004231268A – SUSPENDING EQUIPMENT

27) Family number: 15997024 (US2004231268A) © PatBase

Title: SUSPENDING EQUIPMENT

Priority: EP20020755156 20020813 GB20010020522 20010823 WO2002GB03725 20020813 GB20010026181 20011101 WO2002GB03726 20020813

Family:

Publication number	Publication date	Application number	Application date
AT287050 E	20050115	AT20020755156T	20020813
AU2002321453 AA	20030310	AU20020321453	20020813
AU2002321453 BB	20061214	AU20020321453	20020813
BRPI0211677 A	20040713	BR2002PI11677	20020813
CA2456289 AA	20040202	CA20022456289	20020813
DE60202620 D1	20050217	DE20026002620	20020813
DE60202620 T2	20051229	DE20026002620T	20020813
DK1419324 T3	20050425	DK20020755156T	20020813
EP1419324 A1	20040519	EP20020755156	20020813
EP1419324 B1	20050112	EP20020755156	20020813
ES2235071 T3	20050701	ES20020755156T	20020813
GB200120522 A0	20011017	GB20010020522	20010823
GB200126181 A0	20020102	GB20010026181	20011101
GB200130430 A0	20020206	GB20010030430	20011220
GB2378980 A1	20030226	GB20010030430	20011220
GB2378980 B2	20030730	GB20010030430	20011220
JP2005503521 T2	20050203	JP20030523862T	20020813
MXPA04001257 A1	20040527	MX2004PA01257	20020813
PT1419324 T	20050531	PT20020755156T	20020813
US2004231268 AA	20041125	US20040487125	20040219
WO03019040 A1	20030306	WO2002GB03726	20020813
ZA200400742 A	20041130	ZA20040000742	20040129
ZA200400742 A	20050223	ZA20040000742	20040129

Probable Assignee: GRIPPLE LTD

Assignee(s):(std)**:** BOALER DEREK ; FACEY HUGH DAVID ; GRIPPLE LTD

Assignee(s): GRIPPLE LTD SHEFFIELD ; GRIPPLE LIMITED

Inventor(s):(std)**:** BOALER DEREK ; DEREK BOALER ; FACEY DAVID ; FACEY HUGH DAVID ; HUGH DAVID FACEY

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; ROBIC

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

International class (IPC 8–9): F16B1/00 F16B1/02 F16G11/04 F16G11/10 F16G11/14 (Advanced/Invention); F16B1/00 F16G11/00 (Core/Invention); F16G (Subclass/Invention)

International class (IPC 1–7): E04B2/00 F16B1/00 F16B1/02 F16G F16G11/00 F16G11/04 F16G11/10 F16G11/14

CPC: F16G11/14 F16G11/106

European class: F16G11/10 F16G11/14

US class: 52/506.01 52/506.06

Classification Explorer

Cited documents: WO0001958 A1, US6554253 BA, US5743062 A, US549069 A, US5482341 A, US5183233 A, US5085392 A, US4570891 A, GB1369238 A, GB1290487 A, EP0926393 A1, DE29809453 U1,

Forward Citations: WO13086130, WO11004152, WO08089891, WO07031730, WO04085255, US9188193, US8112847, JP2009502233, GB2450965, GB2450965, FR2911652, EP1462368, AU2004222810,

Abstract:
Source: US2004231268A Means for suspending equipment (21) from an overhead structural member (16) comprises a suspension strand (10), e.g. a length of wire rope, with a nipple (11) at one end, a toggle plate (12) with an aperture (13) through which the strand can pass but not the nipple, together with a locking device (18) having twin bores (17A, 17B) associated with wedging means (19A, 19B), the toggle plate (12) and nipple (11) being pushed through a hole (15 or 34) in the overhead structural member (16) or the equipment (21), for the toggle plate to overlie or underlie the hole, while the free end (14) of the strand (10) is passed through one bore (17A) of the locking device (18), through an eye (20) on the equipment (21) or round the equipment or through an eye (35) on the overhead structural member (16) or round the overhead structural member, and finally through the other bore (17B) of the locking device (18).

0) CA1314386A – CABLE LOCK AND SEAL DEVICE DISPOSITIF DE BLOCA...

28) Family number: 8959723 (CA1314386A) © PatBase

Title:	CABLE LOCK AND SEAL DEVICE
Priority:	CA19860526213 19861223

Family:

Publication number	Publication date	Application number	Application date
CA1314386 A1	19930316	CA19860526213	19861223

Probable Assignee:	TRITTON LTEE TRITTON ENTERPRIS
Assignee(s):(std)**:**	TRITTON LTEE TRITTON ENTERPRIS ; TRITTON VICTOR R
Assignee(s):	TRITTON VICTOR ROBERT ; CANADA MAYER INC ; TRITTON ENTERPRISES LTD ; TRITTON GARY EDWARD
Inventor(s):(std)**:**	TRITTON GARY E ; TRITTON VICTOR R
Inventor(s):	TRITTON VICTOR ROBERT ; TRITTON GARY EDWARD
Agent(s):	MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP
International class (IPC 8–9):	F16G11/04 F16G11/10 F16G11/14 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)
International class (IPC 1–7):	F16G11/14
CPC:	G09F3/0352 F16G11/106 F16G11/14
European class:	F16G11/04 F16G11/10 G09F3/03A6B

Classification Explorer

Abstract:
Source: CA1314386A This invention provides a sealing device comprising: an outer hollow housing at least partially enclosing an inner housing. The inner housing projects at least partially beyond the front and rear walls of the outer housing in an assembled condition to form a pair of opposed, spaced–apart, cable receiving channels extending from the top to the bottom of the inner housing for receiving opposed free ends of a length of high strength cable, the free ends having at least a portion thereof of a deformable nature. Cable engaging and locking means are provided within the inner housing comprising an obliquely extending cam receiving surface and an opposed surface having a pair of spaced apart projections thereon, forming a cable receiving land portion between the spaced–apart projections. The cable engaging and locking means have a top portion of a width greater than a bottom portion thereof. Rotatable cable engaging cam means are adapted to ride on the cam receiving surface of the cable engaging and locking means opposite the cable receiving land portion; and stop means extend from the cable engaging and locking means. The stop means prevent vertical movement of the cam means beyond a predetermined point in the inner housing. The seal of this invention employs fewer components while providing a high degree of security.

0) US4274574A – LINEAR MOTION CABLE DRIVE

29) Family number: 1957847 (US4274574A) © PatBase

Title: Linear motion cable drive

Priority: CA19810368554 19810115 GB19810001258 19810115 US19800112666 19800116

Family:

Publication number	Publication date	Application number	Application date
CA1153357 A1	19830906	CA19810368554	19810115
DE3101278 A1	19820107	DE19813101278	19810116
DE3101278 C2	19900412	DE19813101278	19810116
GB2067151 A1	19810722	GB19810001258	19810115
GB2067151 B2	19830727	GB19810001258	19810115
GB2123933 A1	19840208	GB19830003523	19830209
GB2123933 B2	19840801	GB19830003523	19830209
GB8303523 A0	19830316	GB19830003523	19830209
US4274574 A	19810623	US19800112666	19800116

Probable Assignee: ILLINOIS TOOL WORKS

Assignee(s):(std)**:** ILLINOIS TOOL WORKS

Assignee(s): ILLINOIS TOOL WORKS INC ; ILLINOIS TOOL WORKS INC CHICAGO ILL US ; BISHOP BERNARD F

Inventor(s):(std)**:** BISHOP BERNARD F ; BISHOP BERNARD FRANK

Inventor(s): BISHOP BERNARD FRANK CHICAGO ILL ; BISHOP BERNARD FRANK CHICAGO ILL US ; FRANK BISHOP BERNARD ; BERNARD FRANK BISHOP

Agent(s): MEREDITH AND FINLAYSON

International class (IPC 8–9): B65H51/14 B66F19/00 G02B6/44 G02B6/48 (Advanced/Invention); B65H51/00 G02B6/44 G02B6/46 (Core/Invention)

International class (IPC 1–7): B65H17/24 B65H51/08 B65H51/14 B66F19/00 F16G11/02

CPC: B65H51/14 G02B6/4422 G02B6/486

European class: B65H51/14 G02B6/44C6A2 G02B6/48A1

US class: 226/170

Classification Explorer

Cited documents: US3586227 A, US3265269 A, US2792930 A, US2789687 A, US2679924 A, FR1119158 A, DE1262716 B,

Forward Citations: WO9739372, WO9632661, WO05083312, WO0235966, WO0235966, US7424964, US6032449, US6032448, US4869412, US4703880, US4699305, US2006180626, RU2606242, GB2314694, GB2314694, EP0820603, EP0236026, EP0236026, EP0215636, EP0215636, AU697254, AU586278, AU586277,

Abstract:
Source: US4274574A A linear motion cable drive including a plurality of drive assemblies each including a drive cable helically wrapped around the driven cable with means to rotate the drive assemblies about the axis of the driven cable to negate the rotational effects of the helical wrapping. Apparatus is provided to permit discontinuities in the form of larger or smaller cable portions to be fed by the drive unit without causing rotation or twisting. The same helical wrapping can be used in an overlapped, reverse wrap configuration to form a cable locking device.

0) US2280106A – CABLE TENSION CONTROLLER

30) Family number: 21107941 (US2280106A) © PatBase

Title: CABLE TENSION CONTROLLER

Priority: US19400371546 19401224

Family:

Publication number	Publication date	Application number	Application date
US2280106 A	19420421	US19400371546	19401224

Probable Assignee: STURGESS INC

Assignee(s):(std)**:** STURGESS INC

Inventor(s):(std)**:** JOHN STURGESS

Inventor(s): STURGESS JOHN

International class (IPC 8–9): B64C13/30 (Advanced/Invention); B64C13/00 (Core/Invention)

International class (IPC 1–7): F16G11/00

CPC: B64C13/30 Y10T74/20408

European class: B64C13/30

US class: 244/99.2 74/501.50R 74/501.5R

Classification Explorer

Forward Citations: US5868037, US4540141, US3016760, US2921480, US2489163, DE2845789, DE2845788,

Abstract:
Source: US2280106A 1. A tension controller for control cables bomprising twa adjacent members, means mounting said members' for relative movement, means adapted for securing the ends of ar pair of cables bo one of said members, spring means interposed between, said members for balancing the pull 'ot said cables, a. plurality of interleaved plates forming a normally. relealsed friction clutching means for locking said members against relative movement, and means actuated by`un– 4– . l 2,280,106 ' ’ cqual pull on said cables throwing said friction clutching means into engagement.

0) US3248487A – SHIPBOARD CARGO TRANSFERRING APPARATUS HAVING A...

31) Family number: 29631911 (US3248487A) © PatBase

Title: SHIPBOARD CARGO TRANSFERRING APPARATUS HAVING AN ELECTRICAL CABLE SUPPORTING MEANS

Priority: US19630294329 19630711 US19640418992 19641217 US19640421412 19641228

Family:

Publication number	Publication date	Application number	Application date
GB1014627 A	19651231	GB19640023603	19640608
GB1057807 A	19670208	GB19650038826	19640608
NO117218 B	19690714	NO19640153674	19640617
NO117406 B	19690804	NO19660162041	19660310
US3190456 A	19650622	US19630294329	19630711
US3204780 A	19650907	US19640418992	19641217
US3248487 A	19660426	US19640421412	19641228

Probable Assignee: HARNISCHFEGER CORP

Assignee(s):(std)**:** HARNISCHFEGER CORP

Inventor(s):(std)**:** DECHANTSTREITER M ; HOLT D ; HOLT DOUGLAS E ; KORE A ; KORE ALEXANDER V ; MAX DECHANTSREITER

Inventor(s): DECHANTSREITER MAX

International class (IPC 8–9)**:** B63B27/12 B66C13/12 B66C17/00 B66C23/66 B66C7/00 F16G13/16 (Advanced/Invention); B63B27/00 B66C13/00 B66C17/00 B66C23/00 B66C7/00 F16G13/00 (Core/Invention)

International class (IPC 1–7)**:** B63B27/10 B63B27/12 B66C19/00

CPC: B66C7/00 B66C13/12 B66C17/00 B66C23/66 B66C2700/01 B66C2700/012 B66C2700/035 F16G13/16 B63B27/12 Y10T137/6921

European class: B63B27/12 B66C13/12 B66C17/00 B66C23/66 B66C7/00 F16G13/16 L66C700/01 L66C700/01B L66C700/03D2F

US class: 137/355.17 138/110 191/12C 212/291 212/307 212/318 212/325 414/142.6

Classification Explorer

Cited documents: US645015 A, US315113 A, US3102642 A, US3083838 A, US3077992 A, US3061112 A, US3051321 A, US3034659 A, US3033152 A, US3031035 A, US2975807 A, US2971475 A, US2966237 A, US2700345 A, US2499442 A, US2424899 A, GB698616 A, FR997682 A, DE874209 A, DE818251 A, DE309871 A, DE1083028 B, DE1082644 B,

Forward Citations: USRE30815, US9139403, US9061738, US6467117, US5277386, US4600817, US4267788, US3871494, US3804111, US3423545, US3390657, US3332434, US3249236, US2013032562, JP2004332930, FR2854674, FR2660298, EP1475344, CN104326362,

Abstract:
Source: GB1014627A 1,014,627. Ship's gantry cranes. HARNISCHFEGER CORPORATION. June 8, 1964 [July 11, 1963], No. 23603/64. Heading B8B. A ship's gantry crane 1, Fig. 1, is driven along longitudinal rails on the deck and has a trolley 6 which moves transversely on a gantry 2 and is rotatable through 180 degrees so that cargo can be handled on both sides of the ship. Both the gantry and the trolley are driven by pinions which engage inverted racks. An upper part of the trolley 6 is rotated by a pinion 64, Fig. 3, which engages with a ring gear 76 on a lower wheel–bearing chassis of the trolley. Four wedge–locks 82a–82d prevent inadvertent rotation of the trolley. Each comprises a wedge 104, Fig. 11, which is urged into a space 105 between the two parts of the trolley 20, 22, by an eccentric 98. The latter is rotated by a torsion tube 92 and a handle 116 located in the operator's cab. A load L, Fig. 12, is engaged by a spreader 45 and raised up to a frame 41 which has members 47a–7d which prevent the load from swinging. Spring– loaded shock absorbers 49 in each corner of the frame arrest the load gently. The operator's cab 39 directly overlooks the road. Winches 77A, 77F, Fig. 13, and cables 79A, 79F, 83A, 83F raise the load. To ensure that the load remains level cables 83A and 83F are deadended on a yoke 63 after passing round pulleys 57, 53, 59, 61. The yoke is moved to port or starboard by a screw 91 driven by a motor 95 controlled by a sensing device 97. Power cables are fed from a junction box 103, Fig. 16, on the gantry, to a box 105 on the trolley through a carrier assembly 107 which is kept tensioned as the trolley traverses by a cable 133 and pulleys 109, 127, 129, 130, 131. The ends of the cable 133 are attached to the trolley at 135

and to the gantry at 137. The trolley has an induced current brake which is automatically energized when the slope of the gantry is greater than 6 degrees.

0) US3689974A – CABLE CLAMP AND APPARATUSES FOR ATTACHING AND F...

32) Family number: 1021370 (US3689974A) © PatBase

Title: CABLE CLAMP AND APPARATUSES FOR ATTACHING AND FOR DETACHING THE CLAMP

Priority: US19700086088 19701102

Family:

Publication number	Publication date	Application number	Application date
US3689974 A	19720912	US19700086088	19701102

Probable Assignee: PRELUDE CORP

Assignee(s):(std)**:** PRELUDE CORP

Inventor(s):(std)**:** GIFFORD HOWARD W ; WHIPPLE WILLIAM D

Inventor(s): WILLIAM D WHIPPLE ; HOWARD W GIFFORD

International class (IPC 8–9)**:** B63B21/08 F16G11/00 (Advanced/Invention); B63B21/00 F16G11/00 (Core/Invention)

International class (IPC 1–7)**:** A01K75/00 B23P19/04

CPC: B63B21/08 F16G11/00 Y10T29/53526 F16G11/101

European class: B63B21/08 F16G11/00

US class: 29/200D 29/819

Classification Explorer

Cited documents: US3368267 A, US3098289 A,

Forward Citations: US4126850,

Abstract:
Source: US3689974A A releasable and lockably closing cable clamp has two clamp elements movable relative to each other between a release position and a cable–clamping closed position, and has a latch member movable between an unlatch position where the clamp elements are free for said relative movement and a latch position where it locks the clamp elements in the closed position.

0) WO12123603A1 – RETENTION ELEMENT FOR TENSIONED CABLES ELEMENT...

33) Family number: 51932070 (WO12123603A1) © PatBase

Title: RETENTION ELEMENT FOR TENSIONED CABLES

Priority: ES20110000294 20110315 WO2012ES00055 20120309

Family:

Publication number	Publication date	Application number	Application date
EP2687732 A1	20140122	EP20120757813	20120309
EP2687732 A4	20150708	EP20120757813	20120309
ES2388278 AA	20121011	ES20110000294	20110315
ES2388278 BA	20130617	ES20110000294	20110315
WO12123603 A1	20120920	WO2012ES00055	20120309

Probable Assignee: PRACER PERFILADORES S L L

Assignee(s):(std)**:** ESPARZA FONTANILLO ESTEBAN ; PRACER PERFILADORES S L L

Assignee(s): PRACER PERFILADORES SLL

Inventor(s):(std)**:** ESPARZA FONTANILLO ESTEBAN

Inventor(s): ESTEBAN ESPARZA FONTANILLO

Agent(s): INTES DIDIER GERARD ANDRE; BUCETA LUIS; VEIGA SERRANO MIKEL

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 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 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

International class (IPC 8–9): F16B2/16 F16G11/04 F16G11/10 G05D15/00 (Advanced/Invention); F16G11/04 F16G11/10 G05D15/00 (Advanced/Non–invention)

CPC: F16G11/108 F16B2/16

European class: F16G11/10F4

Classification Explorer

Cited documents: WO9736123 A1, US4216568 A, US2374875 A, US2003115723 AA, GB2446501 A1, GB2415012 A1, GB2378999 A1, GB2240581 A1, ES1049506 UA, EP1967759 A1,

Abstract:
Retention element for tensioned cables, which is formed by a body (2) provided with one or two longitudinal conduits (3), and in relation to each conduit there is an immobilization mechanism formed by a movable piece (4) that is pushed by a spring (5), the body (2) defining, at the ends, fronts (9) that are totally perpendicular to the conduits (3), such that, upon retention of a tensioned cable (8) in abutment against a securing structure, said body (2) establishes a stable stop position against the tension of the cable (8).

0) US4093042A – LOCKING GRIPPER

34) Family number: 1511624 (US4093042A) © PatBase

Title: LOCKING GRIPPER

Priority: FR19750032025 19751020

Family:

Publication number	Publication date	Application number	Application date
CA1028478 A1	19780328	CA19760263809	19761020
DE2647400 A1	19770421	DE19762647400	19761020
FR2346588 A1	19771028	FR19750032025	19751020
FR2346588 B1	19800516	FR19750032025	19751020
GB1561343 A	19800220	GB19760043590	19761020
JP52052795 A2	19770427	JP19760126023	19761020
JP54021156 B4	19790727	JP19760126023	19761020
JP984867 C3	19800129	JP19760126023	19761020
US4093042 A	19780606	US19760733361	19761018

Probable Assignee: PRADON J

Assignee(s):(std)**:** PRADON J ; PRADON JACQUES

Assignee(s): JIYATSUKU PURADON

Inventor(s):(std)**:** PRADON JACQUES ; JIYATSUKU PURADON

International class (IPC 8–9)**:** B65B27/10 B66C1/48 B66D3/00 F16D63/00 F16G11/04 (Advanced/Invention); B65B27/00 B66C1/42 B66D3/00 F16G11/00 (Core/Invention)

International class (IPC 1–7)**:** B65B13/34 B65B27/10 B66C1/44 B66C1/48 B66F3/36 E21B19/06 E21B19/07 F16B1/02 F16D63/00 F16G11/04

CPC: F16G11/048 B66C1/48 B66D3/006

European class: B66C1/48 B66D3/00D F16G11/04

US class: 188/189 188/67

Classification Explorer

Cited documents: US3762512 A, US3215231 A, US2970445 A, US1165583 A,

Forward Citations: WO8806118, WO08153411, WO07015642, WO07015642, WO04111485, WO04111485, WO04067854, US8826841, US8641325, US8408509, US8066246, US7540254, US7419145, US7182212, US7131517, US7131517, US6631792, US6471439, US6412606, US6279764, US6264395, US4878452, US4544112, US4423697, US4381096, US4360171, US4347423, US2015315934, US2013074756, US2012177443, US2010308197, US2010154176, US2010018809, US2008190344, US2006266590, US2005145449, US2005109724, US2003223659, US2003066717, RU2469902, GB2338008, GB2338008, GB2220018, GB2220018, GB2158030, GB2153316, EP0418507, EP0280114, EP0243993, EP0057622, EP0057622, DE3615985, DE3319042, DE3122130, CN106246659, CN106246657, CN106246656, CN106194922, CN106194919, CN106122191, CN102451958, CN101711317, AU757426, AU705140,

Abstract:
Source: US4093042A A gripper for locking against an elongated body such as a cable is subjected to relative displacement along the length of the body and is capable of locking at any place therealong, the gripper comprising a rigid member, at least two jaws provided with surfaces for locking against the body and a system for locking the jaws transversely on the body by wedge effect. Each jaw is associated with two substantially parallel bearing surfaces inclined relative to the elongated body, one surface being on the associated jaw, the other on the rigid member. A rolling member is interposed between the bearing surfaces for transmission of the locking force of the associated jaw to the rigid body and at least one shoe is associated with each pair of bearing surfaces. The shoe is provided with a surface for application against one of the bearing surfaces and an elastic assembly connects each shoe to the second bearing surface to maintain the rolling member between the second bearing surface and a rolling surface provided on the shoe.

35) Family number: 22612399 (US3033529A) © PatBase

Title: AUTOMATIC GUY TENSIONING DEVICE FOR ERECTION OF MASTS

Priority: US19610094886 19610310

Family:

Publication number	Publication date	Application number	Application date
US3033529 A	19620508	US19610094886	19610310

Probable Assignee: CRAIG SYSTEMS INC

Assignee(s):(std)**:** CRAIG SYSTEMS INC

Inventor(s):(std)**:** PIERRAT MICHEL A

International class (IPC 8–9)**:** E04H12/18 F16G11/12 (Advanced/Invention); E04H12/00 F16G11/00 (Core/Invention)

International class (IPC 1–7)**:** A62B1/00 E04H12/20

CPC: F16G11/12 E04H12/182 Y10T74/18832

European class: E04H12/18B F16G11/12

US class: 242/388.6 242/613.1 52/111 52/148 74/89.2

Classification Explorer

Forward Citations: WO8601495, US9556689, US9500049, US9476267, US9091128, US8905699, US8696288, US8469648, US8419335, US8408334, US8393844, US8371790, US8192129, US8192128, US8128332, US7811040, US7231741, US4866893, US4776140, US4529063, US4420917, US4011694, US3521836, US2010296899, US2010230166, US2010034619, US2010032213, US2008304936, US2002139064, EP0396339, AU605971, AU2007201147,

Abstract:
Source: US3033529A (Claim 1) 1. A device adapted for automatically tensioning guy lines secured in circumferentially–spaced relation about the foot of a vertically–erectable mast and running to the top of the mast and thence to the foot thereof, comprising, in combination; a plurality of rotatably–mounted reels for paying out guy lines, a rotatably–mounted drum for paying out a sensing cable adapted to be secured to the head of the mast, said reels and said drum being driv–ingly interconnected, means for applying a braking torque through said interconnection to said reels and said drum upon rotation thereof to tension said guy lines and said sensing cable, and braking means engageable to lock said reels and drum against rotation, said braking means constructed and arranged for cooperation with said sensing cable for disengagement thereby when the tension in said cable exceeds a predetermined value, and for self–induced engagement upon a reduction of the tension in said cable below said predetermined value.

0) EP0086522A1 – STRETCHING DEVICE. SPANNVORRICHTUNG. DISPOSIT...

36) Family number: 2023113 (EP0086522A1) © PatBase

Title: Stretching device.

Priority: NL19820000555 19820213 NL19828200555 19820213

Family:

Publication number	Publication date	Application number	Application date
AU198311119 A1	19830818	AU19830011119	19830204
EP0086522 A1	19830824	EP19830200162	19830128
JP58193950 A2	19831111	JP19830021370	19830210
NL8200555 A	19830901	NL19820000555	19820213
NL8200555 A1	19830901	NL19820000555	19820213
ZA8300870 A	19831130	ZA19830000870	19830209

Probable Assignee: ROTTERDAMSCHE DROOGDOK MIJ

Assignee(s):(std): DO ROTSUTERUDAMUSHIE DOROTSUHI ; ROTTERDAMSCHE DROOGDOK MIJ

Assignee(s): DO ROTSUTERUDAMUSHIE DOROTSUHIDOKU EMUAIJIEI BV ; DE ROTTERDAMSCHE DROOGDOK MAATSCHAPPIJ B V ; DE ROTTERDAMSCHE DROOGDOK MIJ B V ; DE ROTTERDAMSCHE DROOGDOK MIJ B V TE SCHIEDAM ; DE ROTTERDAMSCHE DROOGDOK MIJ BV

Inventor(s):(std): KLAASSEN LAMBERTUS GERARDUS M ; MARIA KLAASSEN LAMBERTUS GERAR ; KLAASSEN LAMBERTUS GERARDUS MA ; RANBERUTSUSU GERARUDEUSU MARIA

Inventor(s): KLAASSEN IR LAMBERTUS GERARDUS MARIA ; IR LAMBERTUS GERARDUS MARIA KLAASSEN ; KLAASSEN LAMBERTUS GERARDUS MARIA ; RANBERUTSUSU GERARUDEUSU MARIA KURATSUSEN

Agent(s): COLLISON AND CO

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

International class (IPC 8–9): F16G11/12 F16H7/08 F16H7/12 (Advanced/Invention); F16H7/08 (Advanced/Non–invention); F16G11/00 F16H7/12 (Core/Invention); F16H7/08 (Core/Non–invention)

International class (IPC 1–7): F16G11/12 F16H7/12

CPC: F16H7/1263 F16H2007/0806 F16H7/12

European class: F16H7/12N2 R16H7/08A2

Classification Explorer

Cited documents: US4283182 A, US3479894 A, US2014397 A, US1374643 A,

Forward Citations: KR101137359, EP0472505,

Abstract:
Source: EP0086522A1 Device for tensioning an elongate member in particular a cable or chain guided along a bracing wheel (1) journalled in a support (3), the support (3) being loaded by a spring (1) associated with the tensioning device, whereby the spring (6) is locked between the support (3) and a first stop (12) fastened to a shaft (9) surrounded by the spring (11), whose end remote from the first stop (12) is passed through a hole (4) in the subport (3) said shaft (9) being provided with a second stop (10) which limits a displacement of the support (3) with respect to the shaft (9) under the action of the spring (11) force, whilst into the end of the shaft (9) remote from the first stop (12) is screwed a bolt (20), which extends in the shaft (9) into the part of the shaft (9) surrounded by the spring (11) and the end of the bolt protruding from the shaft is provided with means (22) whose dimension exceeds the diameter of the hole (4) in the support (3).

0) US4536921A – CABLE CLAMP

37) Family number: 3213136 (US4536921A) © PatBase

Title: CABLE CLAMP

Priority: DE19813143217 19811030 DE19823217885 19820512

Family:

Publication number	Publication date	Application number	Application date
DE3143217 A1	19830519	DE19813143217	19811030
DE3143217 C2	19831103	DE19813143217	19811030
DE3217885 A1	19831124	DE19823217885	19820512
FR2515763 A1	19830506	FR19820018121	19821028
FR2515763 B1	19850712	FR19820018121	19821028
US4536921 A	19850827	US19820436912	19821027

Probable Assignee: GEROH MECHANISCHE SYSTEME

Assignee(s):(std)**:** GEROH GMBH MECHANISCHE SYSTEME ; GEROH MECHANISCHE SYSTEME

Assignee(s): GEROH GMBH ; GEROH GMBH MECHANISCHE SYSTEME 8551 WAISCHENFELD DE

Inventor(s):(std)**:** CONRAD HERBERT ; CONRAD HERBERT DIPL ING ; BRENDEL RICHARD ; BRENDEL RICHARD DIPL ING

Inventor(s): BRENDEL RICHARD DIPL ING FH 8573 POTTENSTEIN DE ; CONRAD HERBERT DIPL ING 8580 BAYREUTH DE ; RICHARD BRENDEL ET HERBERT CONRAD

International class (IPC 8–9): B66B7/08 F16G11/04 (Advanced/Invention); B66B7/06 F16G11/00 (Core/Invention)

International class (IPC 1–7): B66B7/08 F16B2/20 F16G11/00 F16G11/04

CPC: F16G11/046 B66B7/08 Y10T24/3956 Y10T24/3971 Y10T24/44966

European class: B66B7/08 F16G11/04

US class: 24/132.0WL 24/132WL 24/136.00K 24/136K 24/568 269/233 269/239

Classification Explorer

Cited documents: US998014 A, US949411 A, US4250734 A, US3905711 A, US322026 A, US319748 A, US2970357 A, US2608731 A, US2561514 A, US2540888 A, US2372754 A, FR1329451 A, DE3129973 A1, CA519610 A,

Forward Citations: WO03022723, WO02085772, WO0153185, WO0153185, US9719577, US8505173, US7971422, US7743597, US7302739, US7293438, US6994487, US6898827, US6796003, US6662408, US6345419, US6237751, US5243739, US2016200550, US2010281659, US2010257836, US2010050590, US2006042329, US2005155194, NL8502745, KR100736305, JP4892154, JP2003520170, GB2304791, FR2582079, EP1381555,

Abstract:
Source: US4536921A Cable clamp with jaws and a wedge. The invention deals with a cable clamp having clamping jaws, a clamping wedge and locking means. The clamp can work as a cable joint and, according to the invention, has the following individual parts: (a) a base with a fastening device for supporting the clamp on the upper end thereof and including a clamping surface for securing the cable, (b) an angular clamping jaw hingedly attached on the upper end of the base, (c) a clamping wedge guided by a cross–piece slidable between the base and the clamping jaw and having an adjustable or fixedly positioned carrier bolt thereon and, (d) a breechblock–mechanism which partially embraces the clamping jaw, and which is pivotally attached at the lower end of the clamping jaw having first, curved surfaces for engaging a carrier bolt mounted on the wedge for carrying and pressing the clamping wedge into a clamping position; second surfaces engageable with a bolt on the base for moving the clamping jaw and base toward each other at the lower end, a closing system for holding the base and jaw in a cable tensioning position, and a locking system for securing a cable in a clamping position.

0) US4892005A – END CAP FOR AN OUTER CABLE

38) Family number: 29527761 (US4892005A) © PatBase

Title: END CAP FOR AN OUTER CABLE

Priority: JP19870067325U 19870502

Family:

Publication number	Publication date	Application number	Application date
DE3814874 A1	19881117	DE19883814874	19880502
DE3814874 C2	19930701	DE19883814874	19880502
FR2614659 A1	19881104	FR19880005874	19880502
FR2614659 B1	19920228	FR19880005874	19880502
IT1217460 A	19900322	IT19880020414	19880502
IT8820414 A0	19880502	IT19880020414	19880502
JP63173512 U1	19881110	JP19870067325U	19870502
US4892005 A	19900109	US19880187927	19880429

Probable Assignee: SHIMANO INDUSTRIAL CO LTD

Assignee(s):(std)**:** SHIMANO INDUSTRIAL CO ; SHIMANO INDUSTRIAL CO LTD

Assignee(s): SHIMANO INDUSTRIAL CO LTD SAKAI OSAKA JP ; SHIMANO INDUSTRIAL COMPANY LIMITED

Inventor(s):(std)**:** MASASHI NAGANO ; NAGANO MASASHI

Inventor(s): NAGANO MASASHI IZUMI OSAKA JP

International class(IPC 8–9)**:** B62L3/00 B62M25/02 F16C1/10 F16C1/26 F16J15/56 (Advanced/Invention); B62L3/00 B62M25/00 F16C1/00 F16C1/10 F16J15/00 (Core/Invention)

International class(IPC 1–7)**:** B62L3/00 B62M25/02 F16C1/10 F16C1/26 F16G F16N7/16

CPC: Y10T74/2045 Y10T74/20462 Y10T403/315 F16C1/107 B62L3/00 B62M25/02 F16J15/56 F16C2326/20 F16C2326/28

European class: B62L3/00 B62M25/02 F16C1/10S F16J15/56

US class: 184/15.1 403/51 74/502.4 74/502.6

Classification Explorer

Cited documents: US4800773 A, US4621937 A, US4534239 A, US4321840 A, US4304149 A, US4143883 A, US4093241 A, US4066147 A, US3957138 A, US3276584 A, US2732861 A, US2517705 A, JP63054576 U1, JP63054576 U, JP62037508 A2, JP60053206 B4, JP60053206 B2, JP60035785 U1, JP60035785 U, JP59037422 U1, JP59037422 U, JP58138813 U1, JP58138813 U, JP55137713 U1, JP55137713 U, JP55023211 B4, JP55023211 B2, GB978314 A, FR964748 A, DE8510490 U, DE1056892 B, CH369322 A,

Forward Citations: WO12060265, WO04072497, WO0017040, WO0009895, US9638239, US8083031, US6957720, US6484605, US6314830, US6014910, US5988011, US5875687, US5862711, US5809840, US5806375, US5799544, US5785152, US5636709, US5478091, US2011132689, US2004168857, FR2851021, FR2838795, FR2759127, EP1903226, EP0816695, EP0816695, EP0816694, EP0816694, EP0713019, DE3916798, DE19802442, DE102006034069, DE102006034069,

Abstract:
Source: US4892005A An end cap is provided for an outer cable guiding a control wire at a bicycle. The end cap has a chamber formed between the bottom wall of a cap body and a holder for holding the outer cable to be fitted into the cap body. A sealing member is disposed in the chamber, thereby preventing mud attached to the other surface of the control wire from entering into the outer cable.

39) Family number: 13241262 (EP1089014A1) © PatBase

Title: Rope operated switch assembly and its installing method

Priority: GB19990023019 19990930 GB20000006617 20000320

Family:

Publication number	Publication date	Application number	Application date
DE60015688 D1	20041216	DE20006015688	20000928
DE60015688 T2	20051201	DE20006015688T	20000928
EP1089014 A1	20010404	EP20000308503	20000928
EP1089014 B1	20041110	EP20000308503	20000928
GB200006617 A0	20000510	GB20000006617	20000320
GB9923019 A0	19991201	GB19990023019	19990930

Probable Assignee: EJA LTD

Assignee(s):(std)**:** EJA ENGINEERING LIMITED ; EJA LTD

Assignee(s): EJA LTD HINDLEY GREEN ; EJA LIMITED

Inventor(s):(std)**:** HOLT DAVID ; KERR DAVID ; MOHTASHAM MEHDI

Designated states: DE FR GB IT NL

International class(IPC 1–7)**:** F16G11/12 F16P3/12 H01H3/02

CPC: F16G11/12 F16P3/12 H01H3/0226

European class: F16G11/12 F16P3/12 H01H3/02D2

Classification Explorer

Cited documents: GB1047211 A, FR1525342 A, CH324480 A, BE555340 A,

Forward Citations: WO12143916, FR2942015, EP2338324, EP2218941,

Abstract:
Source: EP1089014A1 A rope tensioner (4) which may be used to tension a rope operated switch assembly and a method of installing the assembly are described. The switch assembly comprises a rope extending to at least one switch, the switch being actuable to switch between first and second conditions on a change in tension of the rope. A tensioner (4) is provided along the rope for setting the tension of the rope. The tensioner comprises a body, a rotatable member (24) which engages the rope, means for rotating the member relative to the body to adjust tension in the rope by winding the rope around the member, and locking means to lock the member in position relative to the body. The locking means may be a ratchet (26) and pawl (16). The rope operated switch assembly is much simpler to install than previous assemblies, as the tensioner may be simply threaded or otherwise installed onto the rope without the rope having to be cut.

0) WO8707691A1 – CABLE TRACTION APPARATUS

40) Family number: 2872130 (WO8707691A1) © PatBase

Title: CABLE TRACTION APPARATUS

Priority: DE19863619263 19860607 DE19863642449 19861212 WO1987EP00300 19870606 DE19873708936 19870319

Family:

Publication number	Publication date	Application number	Application date
AU198776933 A1	19880111	AU19870076933	19870606
DE3619263 A1	19871210	DE19863619263	19860607
DE3708936 A1	19880929	DE19873708936	19870319
EP0252313 A1	19880113	EP19870108246	19870606
WO8707691 A1	19871217	WO1987EP00300	19870606

Probable Assignee: KREISS B

Assignee(s):(std)**:** KREISS B ; KREISS BURKHARD ; KREISS BURKHARD PROF DIPL ING

Assignee(s): KREISS BURKHARD PROF

Inventor(s):(std)**:** KREISS BURKHARD ; KREISS BURKHARD PROF ; KREISS BURKHARD PROF DIPL ING

Inventor(s): BURKHARD KREISS ; DER ERFINDER WIRD NACHTRAEGLICH BENANNT

Designated states: AT AU BE CH DE DK ES FR GB GR IT JP LU NL SE US

International class (IPC 8–9)**:** B66D3/00 B66D5/16 F16G11/12 (Advanced/Invention); B66D3/00 B66D5/00 F16G11/00 (Core/Invention)

International class (IPC 1–7)**:** B62M9/08 B63B21/08 B63H9/08 B66D3/02 B66D5/16 B66F19/00 F16G11/12

CPC: B66D3/003 B66D5/16 F16G11/12

European class: B66D3/00B B66D5/16 F16G11/12

Classification Explorer

Cited documents: US4530135 A, EP0104155 A1, DE2914888 A1,

Forward Citations: DE102004022184,

Abstract:
Source: WO8707691A1 Un appareil de traction de cable pour tirer et maintenir et, dans la mesure du possible, pour liberer un cable (5) ou une bande de traction similaire (200) sous charge, dans lequel la manipulation est amelioree et l'actionnement d'une seule main notamment possible, grace au fait qu'au moins un rouleau (7) pouvant etre entraine agit avec sa surface peripherique (500) sur la bande de traction (200) dans le sens de traction et de retenue. La bande de traction (200) est maintenue, au moins lorsqu'elle est utilisee pour la traction et la retenue, contre le rouleau (7) pouvant etre entraine, a l'aide d'un element de guidage (300) dans l'appareil. Une unite d'entrainement (400) agit sur le rouleau (7) pouvant etre entraine au moins dans le sens de traction et de retenue. Un premier element de blocage (600) fixe a demeure sur le logement (21) recevant l'appareil de traction de cable (100), remplit une fonction de serrage pour de preference une seule main de l'operateur. Un second element de blocage (700) permet un actionnement repete intermittent de l'unite d'entrainement (400) pendant la traction par une seule main de l'operateur, les premier et second elements de blocage (600 et 700) etant associes l'un a l'autre de telle sorte qu'ils peuvent toujours etre conjointement saisis ou actionnes par une seule main de l'operateur.

0) WO8807427A1 – SAWING TOOL

41) Family number: 8126991 (WO8807427A1) © PatBase

Title: SAWING TOOL

Priority: DE19873709607 19870324 DE19873719855 19870613 DE19883851708 19880323 DE19883863874 19880323 DE19883805405 19880222 EP19880902415 19880323 WO1988DE00182 19880323

Family:

Publication number	Publication date	Application number	Application date
AT112199 E	19941015	AT19880118250T	19880323
AT65442 E	19910815	AT19880902415T	19880323
DE3805405 A1	19881020	DE19883805405	19880222
DE3851708 D1	19941103	DE19883851708	19880323
DE3863874 D1	19910829	DE19883863874	19880323
EP0307428 A1	19890322	EP19880902415	19880323
EP0307428 B1	19910724	EP19880902415	19880323
EP0414280 A2	19910227	EP19900118250	19880323
EP0414280 A3	19911204	EP19900118250	19880323
EP0414280 B1	19940928	EP19900118250	19880323
WO8807427 A1	19881006	WO1988DE00182	19880323

Probable Assignee: FALKENSTEIN J MASCH VERZAHNUNG

Assignee(s):(std)**:** FALKENSTEIN J MASCH VERZAHNUNG ; MVZ JOHANNES FALKENSTEIN MASCH ; MVZ MASCHBAU VERZAHNUNG ; MVZ MASCHINENBAU U VERZAHNUN

Assignee(s): MVZ MASCHINENBAU UND VERZAHNUNGSTECHNIK JOHANNES F ; MVZ MASCHINENBAU UND VERZAHNUNGSTECHNIK JOHANNES FALKENSTEIN ; MVZ MASCHINENBAU UND VERZAHNUNGSTECHNIK JOHANNES FALKENSTEIN 88427 BAD SCHUSSENRIED DE ; MVZ MASCHINENBAU UND VERZAHNUNGSTECHNIK JOHANNES FALKENSTEIN 7953 BAD SCHUSSENRIED DE ; MVZ MASCHINENBAU U VERZAHNUNGSTECHNIK JOHANNES FALKENSTEIN ; MVZ JOHANNES FALKENSTEIN MASCHINENBAU UND VERZAHNU ; MVZ JOHANNES FALKENSTEIN MASCHINENBAU UND VERZAHNUNGSTECHNIK 7953 BAD SCHUSSENRIED DE

Inventor(s):(std)**:** FALKENSTEIN JOHANNES

Inventor(s): VERZICHT DES ERFINDERS AUF NENNUNG ; FALKENSTEIN JOHANNES W 7953 BAD SCHUSSENRIED DE ; FALKENSTEIN JOHANNES D 7953 BAD SCHUSSENRIED DE

Designated states: AT BE CH DE DK FR GB IT JP LI LU NL NO SE SU US

International class (IPC 8–9)**:** B23D61/18 F16G11/08 (Advanced/Invention)

International class (IPC 1–7)**:** B23D61/18 B28D1/08 B28D1/12 F16G11/08

CPC: B23D61/185 F16G11/08

European class: B23D61/18B F16G11/08

Classification Explorer

Cited documents: GB759505 A, GB191115752 A, GB15752, GB15752, FR2249754 A1, DE2014437 A1, DE1949194 A1,

Forward Citations: WO9807902, WO9633836, WO16120758, WO15015411, WO14013450, WO0204160, US9314253, US8845639, US6915794, US6536869, ITVI20120174, ITVI20100316, ITVI20100286, EP0516071, EP0516071, EP0489357, EP0450506, BE1009305,

Abstract:
A sawing cable for working stone–like materials is designed as an endless circular cable for use on a band saw machine. To ensure that both cable ends (2, 3) are held by a secure lock (4), a lock sleeve (10) is first turned onto a long first screw thread (7) and then back and onto a second screw thread (9). The cutting elements (15, 22) and the lock sleeve (10) have an assentially identical external diameter corresponding to that of a plastic coating which

fills the interstitial spaces or that of a wire spiral (21). The cutting elements (15, 22) are either mounted as sleeves on the cable (6) or arranged as coated elements (22) on the wire spiral (21).

0) RU2199042C – CABLE LENGTH CLAMPING DEVICE

42) Family number: 28466875 (RU2199042C) © PatBase

Title: CABLE LENGTH CLAMPING DEVICE

Priority: RU20020107289 20020325

Family:

Publication number	Publication date	Application number	Application date
RU2199042 C1	20030220	RU20020107289	20020325

Probable Assignee: EHNERGET I KO AOZT

Assignee(s):(std)**:** EHNERGET I KO AOZT

Assignee(s): ZAKRYTOE AKTSIONERNOE OBSHCHESTVO "EHNERGET I KO" ; ZAKRYTOE AKTSIONERNOE OBSHCHESTVO EHNERGET I KO

Inventor(s):(std)**:** LEBEDEV M M ; LEBEDEV MM ; MAMINOV A N ; MAMINOV AN ; ROGATNEV N T ; ROGATNEV NT

International class (IPC 8–9): F16G11/04 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7): F16G11/04 G09F3/03

Classification Explorer

Abstract:
Source: RU2199042C FIELD: different branches of industry. SUBSTANCE: invention relates to clamping devices to be used where necessity arises to wedge–clamping of length of cable in objects requiring use of flexible coupling in form of cable lengths for friction clamping in thimbles and other devices. According to invention, part to cable length at locking is clamped in through channel of body by means of two spring–loaded rollers. Diameter of each roller is greater than that of cable length. Outer side surface of each roller is made serrated, formed by alternating ring projections and valleys. Each roller is placed inside body in separate seat made in form of longitudinal slot whose width corresponds to diameter of roller. Slots are arranged at angle relative to each other and to longitudinal axis of body through channel and they are provided with thrust end face cylindrical surfaces pointed to inlet hole of body and displaced relative to each other. Several versions of arrangement of rollers inside body and relative to each other and relative to cable length locked in body by rollers are considered. EFFECT: improved reliability of locking. 26 cl, 3 dwg

0) US5839768A – CABLE LOOP FORMING AND HOISTING DEVICE

43) Family number: 11264548 (US5839768A) © PatBase

Title: CABLE LOOP FORMING AND HOISTING DEVICE

Priority: US19970833574 19970407

Family:

Publication number	Publication date	Application number	Application date
US5839768 A	19981124	US19970833574	19970407

Probable Assignee: WACKERLY GARY E

Assignee(s):(std)**:** WACKERLY GARY E

Inventor(s):(std)**:** WACKERLY GARY E

International class (IPC 8–9)**:** B66C1/12 F16G11/14 (Advanced/Invention); B66C1/12 F16G11/00 (Core/Invention)

International class (IPC 1–7)**:** B66C1/12 F16G11/14

CPC: F16G11/14 B66C1/12 Y10T24/3916 Y10T24/3996 F16G11/046

European class: B66C1/12 F16G11/14

US class: 24/115M 24/129R 294/74 294/82.11

Classification Explorer

Cited documents: US5339498 A, US4930193 A, US4575905 A, US3321816 A, US3083993 A, US2819923 A, US2592696 A,

Forward Citations: US9446883, US9265498, US8714308, US8636780, US8388655, US7806909, US7722644, US7641694, US7594923, US7566339, US7172595, US7150757, US6938306, US2011144699, US2011011677, US2010318126, US2010305585, US2006276896, US2006190041, US2005288711, US2005288710, US2005288709, US2004254593, US2003223808, FR2972182, EP2495210,

Abstract:
Source: US5839768A The present invention relates to a cable loop forming and hoisting device and, more particularly, to a cable knot block device adapted to forming a sized hoisting sling or loop in fixed relation which is capable of lifting or restraining various types and sizes of loads of varying weight. The device may be readily attached to the load and easily disconnected from the cable while positively retaining the cable in looped load–bearing locked–in relation.

0) RU104961U – LOCKING AND SEALING DEVICE TYPE ROPE (MACHINE...

44) Family number: 49787881 (RU104961U) © PatBase

Title: Locking and sealing DEVICE TYPE Rope (Machine translation)

Priority: RU20090141921U 20091116

Family:

Publication number	Publication date	Application number	Application date
RU104961 U1	20110527	RU20090141921U	20091116

International class (IPC 8–9): E05B39/02 F16G11/04 G09F3/03 (Advanced/Invention)

Classification Explorer

Abstract:
Source: RU104961U 1. locking and sealing device cable type, characterized by the fact that it has a rope and the flattened body with Groove for fixing the wire rope, through–conduit for moving it and at least one angled to channel through a Groove mechanism with detent of grooved element and clip on the outer surface of which along the generatrix met deepening in the form of a series of long parallel grooves; a Groove for the fixation mechanism represents a simplification of the right and left cilindroobraznuju cavity oriented vertically so that the bottom of the Groove–convex forming cavities, and the top of the Groove is a flat pad, rounded at the edges and rolling in flat vertically elongated ends, one of which is on the outside of the end–to–end channel has a bend inwards to give a direction of movement of the roller; springing element is executed in the form of curved in the vertical direction flat elastic plate lentoobraznoj form; the casing is made in the form of parallelepiped and consists of three parts: the inner shell–Foundation in the form of filled plastic rectangular structures with cavities under the named grooves and end–to–end channel plugs rectangular sheet metal with three discharged zaedino edges, placed at right angles to each other, that echo the facade, the upper and lower part of the body–the base and placed on them, the third–the outer part of the hull executed in the form of plastic moulded casing! 2. Locking and sealing device cable type p. 1, characterized by the fact that the plate grooved band w

0) SU889970T – BRACE

45) Family number: 6438522 (SU889970T) © PatBase

Title: BRACE

Priority: SU19802912567 19800422

Family:

Publication number	Publication date	Application number	Application date
SU889970 A1	19811215	SU19802912567	19800422
SU889970 T	19811215	SU19802912567	19800422

Probable Assignee: LAGUTIN STANISLAV V

Assignee(s):(std)**:** LAGUTIN STANISLAV V ; MOROGOVA POLINA L

Assignee(s): MOROGOVA POLINA L SU ; LAGUTIN STANISLAV V SU

Inventor(s):(std)**:** LAGUTIN STANISLAV V ; MOROGOVA POLINA L

Inventor(s): MOROGOVA POLINA L SU ; LAGUTIN STANISLAV V SU

International class (IPC 8–9): F16G11/12 (Advanced/Invention); F16G11/00 (Core/Invention)

International class (IPC 1–7): F16G11/12

Classification Explorer

Abstract:
Source: SU889970T I Invention relates to the general mechanical engineering, in particular, to mooring devices for cargo vehicles. known bale tie comprising a lanyard hook (tensioning device), which shaft is secured to the housing of the clamping device. In the clip attached rope, with one end of the rope (unregulated) fixedly secured using vkladyscha inserted into shaped cavity formed in a wedge, and the second (adjustable) rounds the end roller and wedge attached to the body of the clamping device. The wedge is connected by a pivot to the handle, intended for urging the wedge of the shell when adjusting the effective length of the rope. Adjusting the length of the rope tie–rod V–clamping device is manufactured in Large Live bands. From lanyard (tensioner) is produced tension tie–rods for fastening cargo vehicle. However device is either not work, since the principle of the bale tie is based only on self–jamming rope, ie, for alternating loads arising during the transportation of goods by various modes of transport, can weaken the tie–rods, which would entail the movement of cargo on vehicle. object of the invention – to increase the reliability. The goal is achieved in that the bale tie, comprising a housing with a conical hole, two hooks associated with the body one by rope and vkladyscha cone and the other – by a threaded rod, while on the conjugated surfaces of the hull and the conical liner formed profiled grooves a channel is provided with a branch for coupling to a nozzle with a threaded flange, a hollow shank with the flange and a threaded hole in the bottom for the threaded rod, a spring mounted between the flange and the conical insert, wherein the housing part with the larger diameter of conical holes adapted a threaded cylindrical surface mating with the threaded flange and a tapered bushing – with an axial opening for the hollow shank, wherein the thread rod secured against falling out in the glass, and the last – in the conical insert. Fig. 1 shows being offered bale tie, general view; Fig. 2 – section A–A in Fig. One; Fig. 3 – section B–B in Fig. 1. bale tie comprises a housing 1 with a central conical hole, the input of which is provided with a threaded cylindrical portion 2, go ing to further smooth tapered bore 3. According to the cone over the entire length of the housing 1 Longitudinal profile of the groove 4. tapered bore In 3 housing 1 is installed a conical vkladysch 5, wherein also the housing mating surfaces of the clamp 1 formed profiled groove 6 under the operational branch of the rope 7. Profile grooves 4 and 6 are self–locking angle. In konusnom vkladysche 5 central opening 8, bale tie comprises a sleeve as the sleeve 9 with threaded flange 10, shank 11, set in the opening 8 conical liner 5, threaded cylindrical portion 2 of the body 1 mates with threaded flange 10. Between flange 10 and the conical vkladyschem spacer 5 is, for example Belleville springs 12 installed in slot 13 of the flange 10 and the conical liner 5. threaded rod 14 is screwed into the threaded hole in the bottom of a glass 9 and secured against falling out of 5 pin and lock nut 16. 9 fixed glass in conical insert 5 snap ring 17. on glass 9 is a hole under the rotary jig 18 – ratchet 19. The other end of the threaded rod 14 is coupled to the hook 20 in the bushing 21 of the finger 22. threaded rod 14 is freely vrasheni hook 21 in the sleeve 20, the bracket 23 for the start anchoring the yacht transported load 24. body 1 is bonded via a rope 7 with roller 25, a yoke 26, which is connected to a hook 27 by means of quick release pin 22. The toe 27 is coupled to node 28 schvartovochnym vehicle. For mooring load on the vehicle must be secured 27 per mooring hook assembly 28 of the vehicle, unscrew all the way out of the sleeve 9 threaded rod 14 by a knob 19, the orifice 29 of nut 30. To ensure length of the bale tie, the necessary hook for attaching the bracket 23 20 for the transported load 24, it is necessary unscrewing of the clip body 19, the sleeve 9 vorotkom mounted in bore 18 to move the conical insert 5 in the direction of greater diameter of the housing 1 by means of thrust ring 17, thereby releasing the clamping in the profile of the grooves 4 and 6 of the working branch of the rope 7. When the resilient spacer member 13 is in a free state. Distorting rope 7, the necessary length of the mooring tie rods. Tightening the knob 19 via the sleeve 9 in the housing 1, a tapered insert 5 is moved toward the smaller diameter of the clamp body 1 and cable 7 is clamped. Self–locking angle at which the profile of the groove 6 formed d in conical insert 5,

provides the reliability of the rope clamp 7, because the force of the reverse effect, tending to push the cone–adhesive liner 5 relative to the clamp body 1, a lesser amount of frictional force and the horizontal component of the frictional force on the inclined surface of the conical liner 5. Here elastic spacers (eg Belleville springs) 13 compressed and create constantly acting Q clamping force. Hook 20 is secured to the attachment 23 of the transported cargo. 24. Tightening the threaded rod 14 in a glass 9 with the capstan 19, producing tons tension tie rods, then the counter 14 m threaded rod locknut 16. 5 Reliability of the tie–rods with alternating loads that occur during transportation of goods on the vehicle provided positive clamp rope 7 cone contribution. dyschem 5 and constantly acting force of the elastic element of the spacer 13. Proposed clamp increases the reliability of the compound. claims 5 bale tie, comprising a housing with a conical hole, two hooks associated with the body one by rope and cone liner, and the other – by a threaded rod, while on the conjugated surfaces of the hull and the conical liner made profiles grooves For branches Rope, characterized in that in order to improve reliability, it is provided in the form of a cup sleeve with a threaded flange, the hollow shank side and the flange 5 threaded hole in the bottom for the threaded rod, a spring mounted between the flange and the conical vkladyschem, wherein the housing with the larger diameter cone part is formed with threaded apertures of the cylindrical surface mating with threaded flange and tapered vkladysch – with an axial hole for the hollow shank and threaded rod secured against falling out in the glass, and the last – in the conical insert. 5Istochniki information, received into account in the examination 1. USSR Author's Certificate number 323591, cl. F 16 G 11/12, 1970 (prototype). 22 26 A A T 13 BV 2 f percent G.2 11 fO 2 W 18 / I 11 f

0) FR2345551A – DISPOSITIF POUR LE REGLAGE DE LA TENSION DE COR...

46) Family number: 3702014 (FR2345551A) © PatBase

Title: DISPOSITIF POUR LE REGLAGE DE LA TENSION DE CORDES, CABLES, FILS ET SEMBLABLES DEVICE TO TENSION CABLES BETWEEN SUPPORTS – HAS BODY WITH PAWL TEETH LOCKING ROTARY TENSIONING PIN WITH HOLE PASSING CABLE

Priority: FR19760008165 19760322

Family:

Publication number	Publication date	Application number	Application date
FR2345551 A1	19771021	FR19760008165	19760322

Probable Assignee: BAILETTI ENZO

Assignee(s):(std)**:** BAILETTI ENZO

International class (IPC 8–9): D06F53/00 F16G11/12 (Advanced/Invention); D06F53/00 F16G11/00 (Core/Invention)

International class (IPC 1–7): D06F53/00

CPC: D06F53/00 F16G11/12

European class: D06F53/00 F16G11/12

Classification Explorer

Cited documents: FR974891, FR1202453, FR1024154, CH286206 A3, CH286206, CH268255 A3, CH268255,

Forward Citations: FR2470902,

Abstract:
Source: FR2345551A (Claim 1) la partie de la bande pourvue de dents et sur laquelle la dite roue prend appui. En se rapportant maintenant aux figures annexees, le dispositif selon cette invention comporte une bande annulaire 10, dans l'axe de laquelle est dispose le tourillon il de facon a pouvoir tourner. The body (10) is a strip formed into an elongated loop. A hole (13, 14) is in each rounded end and another through each of the two sides. A hexagon headed pin (11) passes through both side holes and has a disc (17) with pawl teeth and fitted over a squared pin section. A spring (19) over the pin bears on the disc and forces it to engage teeth (15', 15'") regularly spaced about one hole in the body. A cable, cord, etc. passes through the end holes (13, 14) and a hole (12) in the pin. As the pin is turned the pawl teeth ride over teeth on the body and the cord winds round the pin.

0) GB191301880A – IMPROVEMENTS IN OR RELATING TO SEALING OR FASTE...

47) Family number: 37024685 (GB191301880A) © PatBase

Title: IMPROVEMENTS IN OR RELATING TO SEALING OR FASTENING DEVICES.

Family:

Publication number	Publication date	Application number	Application date
GB191301880 A	19131002		00000000

Probable Assignee: TRIOU ANDRE

Assignee(s):(std)**:** TRIOU ANDRE

Assignee(s): ANDRE TRIOU

Inventor(s):(std)**:** TRIOU ANDRE

Inventor(s): ANDRE TRIOU

International class (IPC 8–9)**:** B65D63/14 B65D77/18 F16G11/10 G09F3/03 (Advanced/Invention); B65D63/10 B65D77/10 F16G11/00 G09F3/03 (Core/Invention)

CPC: F16G11/02 F16G11/108 F16G11/14 G09F3/0352 B65D63/14 B65D77/185

European class: B65D63/14 B65D77/18B F16G11/10 G09F3/03A6B

Classification Explorer

Forward Citations: US5820176, US5359870, US5170537, US4878270, US4828210, US2567374, US2017178546, FR2388114, FR2388114, FR2370844, FR2370844, EP0861994, EP0667826, EP0667826, EP0049717,

Abstract:
Source: GB191301880A 1880. Triou, A. June 29, 1912, [Convention date]. Seal fastenings; yrips, sliding–wedge and roller type. – A self–locking device b for sealing bags of postal matter, or the doors of railway wagons, is provided with a hole b<1> to receive the end of a wire – strengthened cord or cable a, and with a longitudinal conduit b<2> in which the cord may slide. The cord is automatically locked in position by a spring–pressed ball d or wedge located in a passage c, the end of which is permanently closed by a plug b<0>. The whole arrangement forms a running noose which can only be unfastened by cutting the cord.

0) US3897161A – ROPE LOCK DEVICE

48) Family number: 19093309 (US3897161A) © PatBase

Title: ROPE LOCK DEVICE

Priority: US19740433777 19740116

Family:

Publication number	Publication date	Application number	Application date
AU197475514 A1	19760520	AU19740075514	19741119
CA1029926 A1	19780425	CA19740212424	19741028
DE2500926 A1	19750724	DE19752500926	19750111
DE2500926 B2	19771229	DE19752500926	19750111
DE2500926 C3	19780824	DE19752500926	19750111
DE7500617 U	19750507	DE19750000617U	19750111
JP1153422 C3	19830630	JP19740149093	19741227
JP50102494 A2	19750813	JP19740149093	19741227
JP57042552 B4	19820909	JP19740149093	19741227
US3897161 A	19750729	US19740433777	19740116

Probable Assignee: ILLINOIS TOOL WORKS

Assignee(s):(std)**:** ILLINOIS TOOL WORKS ; ILLINOIS TOOL WORKS INC

Assignee(s): ILLINOIS TOOL WORKS INC CHICAGO ILL V ST A ; REINWALL ERNEST W

Inventor(s):(std)**:** ERNEST WILLIAM REINWALL JR ; REINWALL ERNEST W ; REINWALL ERNEST W JR ; REINWALL ERNEST WILLIAM JR ; REINWALL JR ERNEST WILLIAM ; REINWALL JUN ERNEST WILLIAM

Inventor(s): REINWALL JUN ; REINWALL JUN ERNEST WILLIAM MCHENRY ILL V ST A ; WILLIAM REINWALL JUN ERNEST ; WILLIAM REINWALL JUN

International class (IPC 8–9): A41F19/00 B25B25/00 B65D33/28 B65D33/30 B65D63/14 F16G11/04 F16G11/10 F16G11/14 (Advanced/Invention); A41F19/00 B25B25/00 B65D33/16 B65D63/10 F16G11/00 (Core/Invention)

International class (IPC 1–7): A41F19/00 B25B25/00 B65D33/30 B65D63/14 B65D63/16 F16G11/04 F16G11/10 F16G11/14

CPC: Y10T24/3404 Y10T24/39 Y10T24/3944 Y10T24/3951 Y10T403/4345 F16G11/103 F16G11/14

European class: F16G11/04 F16G11/10

US class: 24/115R 24/134KB 24/134P 24/309 403/211

Classification Explorer

Cited documents: US432756 A, US432539 A, US3437981 A, US1257040 A,

Forward Citations: WO9317258, USD695976, US9131750, US8500379, US7574779, US7526932, US7237307, US7152439, US6460488, US6454109, US6292984, US5644821, US5517729, US5454140, US5435044, US5421069, US5345656, US5283930, US5208950, US4895402, US4881302, US4765034, US4680835, US4461059, US4162561, US4049357, US3965544, US2015267447, US2012279022, US2012159745, US2010054890, US2007232153, US2007022575, US2005166369, US2005091801, JP62154763, JP52142089, JP52016989, EP0636812, EP0620381,

Abstract:
Source: US3897161A The embodiment of the invention disclosed herein is directed to a rope lock assembly having a body member wherein there is provided a plurality of movable arm means which have gripping end portions to engage a rope passing therethrough. The gripping end portions urge the rope against the interior side walls of the body for restraining the rope from movement in either direction therethrough. A release tab or lever extends from the body and is manually operated to remove the gripping means from engagement with the rope to allow the rope to be pulled in either direction through the body. Release of the manually operated release means will allow resilient biasing means within the rope lock assembly to urge the gripping members back into engagement with the rope to prevent movement of the rope in either direction.

0) US2529617A – CABLE PULLING AND TIGHTENING DEVICE

49) Family number: 22318121 (US2529617A)

© PatBase

Title: CABLE PULLING AND TIGHTENING DEVICE

Priority: US19480017427 19480327

Family:

Publication number	Publication date	Application number	Application date
US2529617 A	19501114	US19480017427	19480327

Probable Assignee: KUNKEL CHARLES A

Assignee(s):(std)**:** KUNKEL CHARLES A

Inventor(s):(std)**:** KUNKEL CHARLES A

International class (IPC 8–9)**:** F16G11/12 (Advanced/Invention); F16G11/00 (Core/Invention)

CPC: F16G11/12 Y10T29/53896 Y10T74/20426 Y10T74/20468 Y10T74/2066

European class: F16G11/12

US class: 254/245 29/267 74/502 74/503 74/531

Classification Explorer

Cited documents: US988869 A, US600242 A, US451024 A, US386478 A, US2484400 A, US2174489 A, US166553 A, US165536 A, US1201146 A,

Forward Citations: US6694841, US6446936, US6149132, US5957432, US2750994, US2004000212,

Abstract:
Source: US2529617A (Claim 1) What is claimed is: A brake cable pulling device which comprises a compression rod, a jack housing mounted on and slidable along the rod, means for locking the jack housing to the rod against movement in one direction, means including a handle for advancing the jack housing along the rod in the opposite direction, means on the jack housing for securing a brake cable thereto, means at the end of the rod from which the jack housing is advanceable for securing the rod to a brake drum comprising a screw threaded in an axial bore in said end of the rod, a transverse bar attached to said screw remote from said rod, a pair of jaw members mounted on said transverse bar, at least one of said jaw members being pivotally mounted on said transverse har, each of said jaw members having a portion on one side of the transverse bar engageable with said end of the rod and a gripping face disposed on the other side of the transverse bar, said rod being rotatable in said jack housing to drive said end of the rod against the jaw members to urge the gripping faces thereof together.

0) ES1056104Y – TENSOR DE SEGURIDAD DE ELEMENTOS FILIFORMES EN ...

50) Family number: 34673372 (ES1056104Y) © PatBase

Title: TENSOR DE SEGURIDAD DE ELEMENTOS FILIFORMES EN GENERAL.

Priority: ES20030002680U 20031121

Family:

Publication number	Publication date	Application number	Application date
ES1056104 UA	20040216	ES20030002680U	20031121
ES1056104 Y1	20050101	ES20030002680U	20031121

Probable Assignee: MAXTENSOR INTERNACIONAL S L

Assignee(s):(std)**:** MAXTENSOR INTERNACIONAL S L ; MAXTENSOR INTERNACIONAL SL

Inventor(s):(std)**:** MARIN MATEOS APARICIO LUIS ; PORTOLES GRINAN LUIS ; VERDU ALVARO RICARDO

International class (IPC 8–9): F16G11/12 (Advanced/Invention); F16G11/00 (Core/Invention)

International class (IPC 1–7): F16G11/12

Classification Explorer

Abstract:
Source: ES1056104U 1. Tensor de elementos filiformes en general, de los destinados a ser utilizados para unir fijar y tensar extremos de elementos filiformes, alambres o cables (2), los cuales pueden estar situados entre dos elementos rigidos, tal y como pueden ser postes, vallas, etc., evitando que los alambres o similares sean torsionados, doblados por cualquier medio o soldados, caracterizado por estar constituido a partir de un cuerpo monobloque (2) dentro del cual se incorporan dos tapas (5), en cada una de ellas se alojan los medios de bloqueo que conforman el mecanismo retenedor del alambre (2), los medios de bloqueo estan formados por una rueda dentada (6) apoyada en el lecho inclinado de la tapa (5), sobre la cual se apoya un muelle (7) obligandola a estar en contacto con el elemento filiforme o alambre (2), incorporando dicha tapa rehundidos o vaciados (10) para aligerar el peso de la misma, pasando el cable, elemento filiforme o alambre (2) en sentido longitudinal por el interior del canal resultante (8). 1. Tensioner of filiform elements in general, intended to be used to join fix and tension ends of filiform elements, wires or cables (2), which can be located between two rigid elements, such as may be poles, fences, etc., avoiding that the wires or the like are twisted, bent by any means or welded, characterized by being formed from a monoblock body (2) within which two covers (5), in each one of them are housed the locking means of the mechanism of the wire retainer (2), the locking means are formed by a toothed wheel (6) supported on the bed of the cover (5), on which rests a Spring (7) forcing it to be in contact with the filiform element or wire (2), incorporating said cover recesses or recesses (10) to lighten the weight of the same, passing the cable, filiform element or wire (2) in the longitudinal direction inside the resulting channel (8).

- Browse: SS5 1–50 (ta=(cable and (seal* or lock*)) and ic=F16G and ft=((passage or channel) and (spring* or bias*) and (wheel or roller)) 51)

0) US2010243114A – CUT–PROOF ANTI–THEFT BAG CONSTRUCTION

1) Family number: 46986925 (US2010243114A) © PatBase

Title: CUT–PROOF ANTI–THEFT BAG CONSTRUCTION

Priority:

AU20150226864	20150307	AU20150226864	20150307	US20090410123	20090324
AU20160228211	20160914	AU20160228212	20160914	EP20150758571	20150307
US20110245319	20110926	US20140559086	20141203	US20150641160	20150306
US20140949452P	20140307	US20150641173	20150306	US20150641144	20150306
US20150641191	20150306	US20150104717P	20150117	WO2010US28557	20100324
WO2012US57298	20120926	US20150641206	20150306	US20150856724	20150917
US20160994874	20160113	WO2015US19332	20150307	WO2016US13250	20160113
US20170484472	20170411	US20170624171	20170615		

Family:

Publication number	Publication date	Application number	Application date
AU2012316168 AA	20130404	AU20120316168	20120926
AU2012316168 AH	20160121	AU20120316168	20120926
AU2012316168 BB	20160114	AU20120316168	20120926
AU2012316168 BH	20160121	AU20120316168	20120926
AU2015226864 AA	20150911	AU20150226864	20150307
AU2016206772 AA	20160721	AU20160206772	20160113
AU2016228211 AA	20160929	AU20160228211	20160914
AU2016228212 AA	20160929	AU20160228212	20160914
CA2845938 AA	20140219	CA20122845938	20120926
CA2845938 C	20170425	CA20122845938	20120926
CA2970953 AA	20170614	CA20162970953	20160113
CN104168796 A	20141126	CN201280046911	20120926
CN104168796 B	20160622	CN201280046911	20120926
CN106941776 A	20170711	CN201580023763	20150307
CN107108181 A	20170829	CN201680006114	20160113
CN202005338 U	20111012	CN201020135926U	20100319
EP2760309 A2	20140806	EP20120835469	20120926
EP2760309 A4	20150603	EP20120835469	20120926
EP3113642 A1	20170111	EP20150758571	20150307
EP3113642 A4	20170125	EP20150758571	20150307
EP3143898 A2	20170322	EP20160188900	20150307
EP3143898 A3	20170705	EP20160188900	20150307
EP3195756 A1	20170726	EP20160188195	20150307
EP3245154 A1	20171122	EP20160737817	20160113
IN01419DN2014 A	20150130	IN2014DN01419	20140225
IN201717028566 A	20171110	IN201717028566	20170811
JP2017511730 T2	20170427	JP20160556735T	20150307
KR20140082746 A	20140702	KR20147011163	20120926
KR20160129878 A	20161109	KR20167027257	20150307
KR20170105535 A	20170919	KR20177021766	20160113
PH2017501207 A	20171018	PH20170501207	20170628
US2010243114 AA	20100930	US20090410123	20090324
US2012073714 AA	20120329	US20110245319	20110926
US2015083286 AA	20150326	US20140559086	20141203
US2015230571 AA	20150820	US20150641160	20150306
US2015230572 AA	20150820	US20150641173	20150306
US2015230573 AA	20150820	US20150641206	20150306

US2015230577 AA	20150820	US20150641144	20150306	
US2015237981 AA	20150827	US20150641191	20150306	
US2016000199 AA	20160107	US20150856724	20150917	
US2016208845 AA	20160721	US20160994874	20160113	
US2017215539 AA	20170803	US20170484472	20170411	
US2017280839 AA	20171005	US20170624171	20170615	
US8925181 BB	20150106	US20110245319	20110926	
US9486047 BB	20161108	US20150856724	20150917	
US9655424 BB	20170523	US20140559086	20141203	
US9675153 BB	20170613	US20150641191	20150306	
US9681716 BB	20170620	US20150641206	20150306	
WO10111434 A1	20100930	WO2010US28557	20100324	
WO13049176 A2	20130404	WO2012US57298	20120926	
WO13049176 A3	20140515	WO2012US57298	20120926	
WO15134956 A1	20150911	WO2015US19332	20150307	
WO16115251 A1	20160721	WO2016US13250	20160113	

Probable Assignee: TRAVEL CADDY INC

Assignee(s):(std)**:** LUGGAGE CO LTD ; TRAVEL CADDY INC D B A TRAVELON ; TRAVEL CADDY INC DBA TRAVELO ; TRAVEL CADDY INC D B ATRAVELON ; TRAVEL CADDY INC ; GODSHAW DONALD E ; HAI DU

Assignee(s): LUGGAGE CO ; ZIVANOVIC SLOBODAN S

Inventor(s):(std)**:** HICKMAN BRYCE RYAN ; ZIVANOVIC SLOBODAN S ; HAI DU ; GUNDERSON DONALD E ; GODSHAW DONALD E

Inventor(s): GODSHAW DONALD ; DU HAI ; DONALD E GUNDERSON ; DONALDEGUNDERSON

Agent(s): SPRUSON AND FERGUSON; KIRBY EADES GALE BAKER; PERKINS SARAH; MARLES ALAN DAVID; OKABE YUZURU; TAKAHASHI SEIICHIRO; OCHI TAKAO; MATSUI TAKAO; FITCH EVEN TABIN AND FLANNERY; NANCY R; GAMBURD LAW GROUP LLC; KRATZ RUDY ET AL; GAMBURD NANCY R

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

International class(IPC 8–9)**:** A44B11/25 A45C13/00 A45C13/02 A45C13/10 A45C13/18 A45C13/20 A45C13/22 A45C13/30 A45C13/36 A45C3/00 A45C3/06 A45C3/14 A45C5/02 A45C5/14 A45C7/00 A45F3/14 A45F5/02 B66C1/36 F16B45/04 F16G11/14 (Advanced/Invention);
A45C13/02 (Advanced/Non–invention);
A45C13/00 (Core/Invention)

CPC: Y10T24/45204 A45C13/36 A45C13/1023 A45C5/02 A45C5/14 A45C7/0027 A45C13/02 A45C13/22 F16B45/04 A45F5/02 A45C13/1076 A45F3/14 A45F2003/142 A45C13/103 A45C13/20 A45C2013/026 A45C2013/306 A45C7/0068 Y10T29/49 Y10T29/5187 A45C3/001 A45C13/185 A45C13/30 A45C13/18 A45C3/06

European class: A45C13/10E1 A45C13/18 A45C13/20 A45C13/30 A45C3/00B A45C3/06 K45C13/02S K45C13/30P K45C3/06

US class: 150/101 150/102 150/110 150/130 190/101 24/588.11 24/588.110S 24/598.3 29/33F 29/592

Classification Explorer

Cited documents: WO13049176 A2, WO11109805 A9, WO11109805 A1, WO10111434 A1, WO09036657 A1, WO05118990 A1, WO04068992 A2, WO0231786 A1, US8978850 BB, US8752254 BB, US8661861 BB, US8590120 BB, US8528115 BB, US8453301 BA, US8438705 BB, US8365365 BB, US8276247 BB, US8267290 BB, US8234758 BB, US8113399 BB, US8082635 BB, US8060994 BB, US8015676 BA, US7979964 BB, US7772973 BB, US7743713 BB, US7721923 BB, US7661223 BB, US7603753 BB, US7526843 BB, US7472461 BB, US7467529 BA, US7454819 BB, US7351938 BB, US7155881 BA,

US7069753 BB, US7047602 BB, US7020937 BB, US6804867 BB, US6684404 BB, US6536084 BB, US6510593 BA, US6494512 BA, US647714 A, US6314624 BA, US6244081 BA, US6227015 BA, US6070308 A, US6053385 A, US6026662 A, US5965223 A, US5915631 A, US5743447 A, US5586368 A, US5579564 A, US5535491 A, US5361464 A, US5257441 A, US5127137 A, US5100191 A, US5081855 A, US5031944 A, US4997222 A, US4949401 A, US4928363 A, US4885570 A, US4807640 A, US4792026 A, US4782556 A, US4773535 A, US4610334 A, US4395891 A, US4153146 A, US3971458 A, US3958616 A, US3587795 A, US3443671 A, US3327365 A, US3133576 A, US276240 A, US275537 A, US2663359 A, US2635664 A, US2609898 A, US257003 A, US2254578 A, US2231198 A, US2019044 A, US201562104717 P, US2015216275 A9, US2014325805 AA, US2014238801 AA, US2014126230 AA, US2014105522 AA, US2014090942 AA, US2014069757 AA, US2014001001 AA, US2013327605 AA, US2013299540 AA, US2013276941 AA, US2013140120 AA, US2013048164 AA, US2013008752 AA, US2012125494 AA, US2012073714 AA, US2011272231 AA, US2011214787 AA, US2011010896 AA, US2010243114 AA, US2009183347 AA, US2009156096 AA, US2009140020 AA, US2009106951 AA, US2009068906 AA, US2008202962 AA, US2008196217 AA, US2008189917 AA, US2007240798 AA, US2007209894 AA, US2007175791 AA, US2007045072 AA, US2006249548 AA, US2006180619 AA, US2006102673 AA, US2006006035 AA, US2005257351 AA, US2005189388 AA, US2004262111 AA, US2003141160 AA, US2003110818 AA, US2003010801 AA, US1672322 A, US161617 A, US1557382 A, US1318183 A, US1172708 A, US1166612 A, SE0231786 A1, JP2012229806 A2, JP2012229806 A1, ILWO2011109805, GB2390295 A1, GB2275174 A1, GB2031375 A1, GB162091 A, GB1156718 A, FR760606 A, FR2601566 A1, EP2659800 A2, EP2653056 A1, EP2064967 A2, EP1941812 A1, EP1688059 B1, EP1688059 A3, EP1688059 A2, EP0878143 A1, EP0408522 A2, EP0408522 A1, DEWO2004068992, DE2722436 A1, DE2624309 A1, CNWO2009036657, CN2674918 Y, CN202005338 U, CN102188086 A, AU2005118990 AA,

Forward Citations: WO17096250, WO15134956, WO13049176, USD758721, US9625234, US9408450, US9364063, US9161596, US8925181, US2016298927, US2016284180, US2014090942, US2013008752, GB2506437, GB2506437, EP3195756, EP3143898, EP2760309, CN104168796, CN104168796, CN102188086, AU2012316168, AU2012316168,

Abstract:
Source: US2010243114A A security handbag comprises an interior security panel assembly with a matrix of wires incorporated positioned within an exterior bag having an inside chamber. The interior security panel assembly is positioned intermediate the exterior bag outside wall and a lining of the bag. A strap with security cable and a carbineer attachment device is attached to the handbag.

0) DE102012219420B4 – SEILBEFESTIGUNGSEINRICHTUNG

51) Family number: 56261305 (DE102012219420B4) © PatBase

Title: Seilbefestigungseinrichtung

Priority: DE201210219420 20121024

Family:

Publication number	Publication date	Application number	Application date
DE102012219420 A1	20140424	DE201210219420	20121024
DE102012219420 B4	20150625	DE201210219420	20121024

Probable Assignee: SIEMENS AG

Assignee(s):(std)**:** SIEMENS AG

Inventor(s):(std)**:** WANCZURA STEFAN

International class (IPC 8–9)**:** B60M1/24 F16B2/02 F16G11/04 H02G7/08 (Advanced/Invention)

CPC: F16B21/186 F16G11/048

Classification Explorer

Cited documents: GB1399004 A, EP2223624 A2, EP1279859 A1, DE69209232 T2,

Abstract:
Source: DE102012219420B4 Seilbefestigungseinrichtung (10) zum Befestigen eines Seils (50) oder eines mit einem Seil (50) verbundenen Endstuecks (60), wobei zumindest eine Klemmscheibe (20, 20a, 20b) mit einem Durchgangsloch (40), das zum Durchfuehren des zu befestigenden Seils (50) oder Endstuecks (60) geeignet ist, und mit mindestens einem Sperrelement (30, 30a, 30b), das sich nach innen in Richtung Durchgangsloch (40) erstreckt, an der Aussenwand des Seils (50) oder des Endstuecks (60) anliegt und eine Bewegung des Seils (50) oder Endstuecks (60) entgegen der Zugrichtung (Z) des Seils (50) zulaesst und entlang der Zugrichtung (Z) blockiert, dadurch gekennzeichnet, dass die Seilbefestigungseinrichtung (10) ein Entriegelungselement (120) mit einem Anschlagsabschnitt (320) aufweist, das mittels des Anschlagsabschnitts (320) das mindestens eine Sperrelement (30, 30a, 30b) der zumindest einen Klemmscheibe (20, 20a, 20b) von der Aussenwand des Seils (50) oder des Endstuecks (60) dergestalt weggedrueckt wird, dass eine Bewegung des Seils (50) oder des Endstuecks (60) entlang der Zugrichtung (Z) des Seils (50) erleichtert oder ermoeglicht ist.

- **search:** SS6 FT=((cable or wire) and (lock* or seal*) and rib* and (roller or wheel) and spring) and IC=F16G (Results 96)
- List: SS6 1–50 (FT=((cable or wire) and (lock* or seal*) and rib* and (roller or wheel) and spring) and IC=F16G) (Results 96)

0) US2010243114A – CUT–PROOF ANTI–THEFT BAG CONSTRUCTION

1) Family number: 46986925 (US2010243114A) © PatBase

Title: CUT–PROOF ANTI–THEFT BAG CONSTRUCTION

Priority:

AU20150226864	20150307	AU20150226864	20150307	US20090410123	20090324
AU20160228211	20160914	AU20160228212	20160914	EP20150758571	20150307
US20110245319	20110926	US20140559086	20141203	US20150641160	20150306
US20140949452P	20140307	US20150641173	20150306	US20150641144	20150306
US20150641191	20150306	US20150104717P	20150117	WO2010US28557	20100324
WO2012US57298	20120926	US20150641206	20150306	US20150856724	20150917
US20160994874	20160113	WO2015US19332	20150307	WO2016US13250	20160113
US20170484472	20170411	US20170624171	20170615		

Family:

Publication number	Publication date	Application number	Application date
AU2012316168 AA	20130404	AU20120316168	20120926
AU2012316168 AH	20160121	AU20120316168	20120926
AU2012316168 BB	20160114	AU20120316168	20120926
AU2012316168 BH	20160121	AU20120316168	20120926
AU2015226864 AA	20150911	AU20150226864	20150307
AU2016206772 AA	20160721	AU20160206772	20160113
AU2016228211 AA	20160929	AU20160228211	20160914
AU2016228212 AA	20160929	AU20160228212	20160914
CA2845938 AA	20140219	CA20122845938	20120926
CA2845938 C	20170425	CA20122845938	20120926
CA2970953 AA	20170614	CA20162970953	20160113
CN104168796 A	20141126	CN201280046911	20120926
CN104168796 B	20160622	CN201280046911	20120926
CN106941776 A	20170711	CN201580023763	20150307
CN107108181 A	20170829	CN201680006114	20160113
CN202005338 U	20111012	CN201020135926U	20100319
EP2760309 A2	20140806	EP20120835469	20120926
EP2760309 A4	20150603	EP20120835469	20120926
EP3113642 A1	20170111	EP20150758571	20150307
EP3113642 A4	20170125	EP20150758571	20150307
EP3143898 A2	20170322	EP20160188900	20150307
EP3143898 A3	20170705	EP20160188900	20150307
EP3195756 A1	20170726	EP20160188195	20150307
EP3245154 A1	20171122	EP20160737817	20160113
IN01419DN2014 A	20150130	IN2014DN01419	20140225
IN201717028566 A	20171110	IN201717028566	20170811
JP2017511730 T2	20170427	JP20160556735T	20150307
KR20140082746 A	20140702	KR20147011163	20120926
KR20160129878 A	20161109	KR20167027257	20150307
KR20170105535 A	20170919	KR20177021766	20160113
PH2017501207 A	20171018	PH20170501207	20170628
US2010243114 AA	20100930	US20090410123	20090324
US2012073714 AA	20120329	US20110245319	20110926
US2015083286 AA	20150326	US20140559086	20141203
US2015230571 AA	20150820	US20150641160	20150306
US2015230572 AA	20150820	US20150641173	20150306
US2015230573 AA	20150820	US20150641206	20150306

US2015230577 AA	20150820	US20150641144	20150306	
US2015237981 AA	20150827	US20150641191	20150306	
US2016000199 AA	20160107	US20150856724	20150917	
US2016208845 AA	20160721	US20160994874	20160113	
US2017215539 AA	20170803	US20170484472	20170411	
US2017280839 AA	20171005	US20170624171	20170615	
US8925181 BB	20150106	US20110245319	20110926	
US9486047 BB	20161108	US20150856724	20150917	
US9655424 BB	20170523	US20140559086	20141203	
US9675153 BB	20170613	US20150641191	20150306	
US9681716 BB	20170620	US20150641206	20150306	
WO10111434 A1	20100930	WO2010US28557	20100324	
WO13049176 A2	20130404	WO2012US57298	20120926	
WO13049176 A3	20140515	WO2012US57298	20120926	
WO15134956 A1	20150911	WO2015US19332	20150307	
WO16115251 A1	20160721	WO2016US13250	20160113	

Probable Assignee: TRAVEL CADDY INC

Assignee(s):(std)**:** LUGGAGE CO LTD ; TRAVEL CADDY INC D B A TRAVELON ; TRAVEL CADDY INC DBA TRAVELO ; TRAVEL CADDY INC D B ATRAVELON ; TRAVEL CADDY INC ; GODSHAW DONALD E ; HAI DU

Assignee(s): LUGGAGE CO ; ZIVANOVIC SLOBODAN S

Inventor(s):(std)**:** HICKMAN BRYCE RYAN ; ZIVANOVIC SLOBODAN S ; HAI DU ; GUNDERSON DONALD E ; GODSHAW DONALD E

Inventor(s): GODSHAW DONALD ; DU HAI ; DONALD E GUNDERSON ; DONALDEGUNDERSON

Agent(s): SPRUSON AND FERGUSON; KIRBY EADES GALE BAKER; PERKINS SARAH; MARLES ALAN DAVID; OKABE YUZURU; TAKAHASHI SEIICHIRO; OCHI TAKAO; MATSUI TAKAO; FITCH EVEN TABIN AND FLANNERY; NANCY R; GAMBURD LAW GROUP LLC; KRATZ RUDY ET AL; GAMBURD NANCY R

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

International class(IPC 8–9)**:** A44B11/25 A45C13/00 A45C13/02 A45C13/10 A45C13/18 A45C13/20 A45C13/22 A45C13/30 A45C13/36 A45C3/00 A45C3/06 A45C3/14 A45C5/02 A45C5/14 A45C7/00 A45F3/14 A45F5/02 B66C1/36 F16B45/04 F16G11/14 (Advanced/Invention);
A45C13/02 (Advanced/Non–invention);
A45C13/00 (Core/Invention)

CPC: Y10T24/45204 A45C13/36 A45C13/1023 A45C5/02 A45C5/14 A45C7/0027 A45C13/02 A45C13/22 F16B45/04 A45F5/02 A45C13/1076 A45F3/14 A45F2003/142 A45C13/103 A45C13/20 A45C2013/026 A45C2013/306 A45C7/0068 Y10T29/49 Y10T29/5187 A45C3/001 A45C13/185 A45C13/30 A45C13/18 A45C3/06

European class: A45C13/10E1 A45C13/18 A45C13/20 A45C13/30 A45C3/00B A45C3/06 K45C13/02S K45C13/30P K45C3/06

US class: 150/101 150/102 150/110 150/130 190/101 24/588.11 24/588.110S 24/598.3 29/33F 29/592

Classification Explorer

Cited documents: WO13049176 A2, WO11109805 A9, WO11109805 A1, WO10111434 A1, WO09036657 A1, WO05118990 A1, WO04068992 A2, WO0231786 A1, US8978850 BB, US8752254 BB, US8661861 BB, US8590120 BB, US8528115 BB, US8453301 BA, US8438705 BB, US8365365 BB, US8276247 BB, US8267290 BB, US8234758 BB, US8113399 BB, US8082635 BB, US8060994 BB, US8015676 BA, US7979964 BB, US7772973 BB, US7743713 BB, US7721923 BB, US7661223 BB, US7603753 BB, US7526843 BB, US7472461 BB, US7467529 BA, US7454819 BB, US7351938 BB, US7155881 BA,

US7069753 BB, US7047602 BB, US7020937 BB, US6804867 BB, US6684404 BB, US6536084 BB, US6510593 BA, US6494512 BA, US647714 A, US6314624 BA, US6244081 BA, US6227015 BA, US6070308 A, US6053385 A, US6026662 A, US5965223 A, US5915631 A, US5743447 A, US5586368 A, US5579564 A, US5535491 A, US5361464 A, US5257441 A, US5127137 A, US5100191 A, US5081855 A, US5031944 A, US4997222 A, US4949401 A, US4928363 A, US4885570 A, US4807640 A, US4792026 A, US4782556 A, US4773535 A, US4610334 A, US4395891 A, US4153146 A, US3971458 A, US3958616 A, US3587795 A, US3443671 A, US3327365 A, US3133576 A, US276240 A, US275537 A, US2663359 A, US2635664 A, US2609898 A, US257003 A, US2254578 A, US2231198 A, US2019044 A, US201562104717 P, US2015216275 A9, US2014325805 AA, US2014238801 AA, US2014126230 AA, US2014105522 AA, US2014090942 AA, US2014069757 AA, US2014001001 AA, US2013327605 AA, US2013299540 AA, US2013276941 AA, US2013140120 AA, US2013048164 AA, US2013008752 AA, US2012125494 AA, US2012073714 AA, US2011272231 AA, US2011214787 AA, US2011010896 AA, US2010243114 AA, US2009183347 AA, US2009156096 AA, US2009140020 AA, US2009106951 AA, US2009068906 AA, US2008202962 AA, US2008196217 AA, US2008189917 AA, US2007240798 AA, US2007209894 AA, US2007175791 AA, US2007045072 AA, US2006249548 AA, US2006180619 AA, US2006102673 AA, US2006006035 AA, US2005257351 AA, US2005189388 AA, US2004262111 AA, US2003141160 AA, US2003110818 AA, US2003010801 AA, US1672322 A, US161617 A, US1557382 A, US1318183 A, US1172708 A, US1166612 A, SE0231786 A1, JP2012229806 A2, JP2012229806 A1, ILWO2011109805, GB2390295 A1, GB2275174 A1, GB2031375 A1, GB162091 A, GB1156718 A, FR760606 A, FR2601566 A1, EP2659800 A2, EP2653056 A1, EP2064967 A2, EP1941812 A1, EP1688059 B1, EP1688059 A3, EP1688059 A2, EP0878143 A1, EP0408522 A2, EP0408522 A1, DEWO2004068992, DE2722436 A1, DE2624309 A1, CNWO2009036657, CN2674918 Y, CN202005338 U, CN102188086 A, AU2005118990 AA,

Forward Citations: WO17096250, WO15134956, WO13049176, USD758721, US9625234, US9408450, US9364063, US9161596, US8925181, US2016298927, US2016284180, US2014090942, US2013008752, GB2506437, GB2506437, EP3195756, EP3143898, EP2760309, CN104168796, CN104168796, CN102188086, AU2012316168, AU2012316168,

Abstract:
Source: US2010243114A A security handbag comprises an interior security panel assembly with a matrix of wires incorporated positioned within an exterior bag having an inside chamber. The interior security panel assembly is positioned intermediate the exterior bag outside wall and a lining of the bag. A strap with security cable and a carbineer attachment device is attached to the handbag.

0) US2010051887A – WIRE STRAINER

2) Family number: 44453093 (US2010051887A) © PatBase

Title: WIRE STRAINER

Priority: AU20090206158 20090805 AU20150264905 20151204 NZ20080570800 20080827 NZ20090583432 20090729 AU20160244184 20161011

Family:

Publication number	Publication date	Application number	Application date
AU2009206158 AA	20100318	AU20090206158	20090805
AU2009206158 BB	20161110	AU20090206158	20090805
AU2015264905 AA	20151224	AU20150264905	20151204
AU2015264905 BB	20160512	AU20150264905	20151204
AU2016244184 AA	20161027	AU20160244184	20161011
NZ570800 A	20100528	NZ20080570800	20080827
US2010051887 AA	20100304	US20090546058	20090824

Probable Assignee: ROBERTSON ENGINEERING LTD

Assignee(s):(std)**:** ROBERTSON ENG LTD

Assignee(s): ROBERTSON ENGINEERING LIMITED ; ROBERTSON ENGINEERING LTD

Inventor(s):(std)**:** COLLINS BRIAN EDWARD ; WOOSTER MAURICE WILLIAM

Inventor(s): MAURICE WILLIAM WOOSTER ; BRIAN EDWARD COLLINS

Agent(s): PIPERS PATENT ATTORNEYS; PIPERS; YOUNG AND THOMPSON

International class (IPC 8–9): B21F9/00 B21F9/02 B25B25/00 E04H17/00 E04H17/02 F16G11/12 (Advanced/Invention); B21F9/00 B25B25/00 E04H17/02 F16G11/00 (Core/Invention)

CPC: B21F9/00 B25B25/00 F16G11/12

European class: B21F9/00 B25B25/00 F16G11/12

US class: 242/396.4 242/396.400S 254/217 254/217P

Classification Explorer

Cited documents: WO9710064 A1, US6820862 BB, US6578823 BA, US6073917 A, US604302 A, US5890674 A, US4819912 A, US4071205 A, US3753551 A, US339319 A, US3391443 A, US2620996 A, US2497220 A, US1822422 A, GB603523 A, FR2474628 A2, FR2470902 A1,

Forward Citations: WO17018891, USD744320, US9820446, US9532511, US9284746, US9187298, US8776647, US8590863, US8413555, US2017118924, US2015144855, US2013161440, CN103128699, CN102198650,

Abstract:
Source: US2010051887A A wire strainer has a ratcheted spool rotatably attached to a frame to rotate in a desired direction when tensioning and able to freewheel otherwise. At least one oval/elliptical hole in the shaft accommodates one, two or more wires therein in a particular orientation on the shaft. The oval/elliptical hole is adapted to be dimensioned and positioned on the shaft such that the integrity and strength of the shaft is not compromised or lessened. A projection and a two plane guide means can be situated on the spool whereby the projection is positioned and engages with a portion of a wire and the two plane guide is positioned and assists in deflecting the length of wire not engaged with the projection away from the projection as the spool is rotated during the straining of a wire. Y−shaped reinforcing ribs on the frame provide strengthening and rigidity while tensioning.

0) US2008271954A – ELEVATOR INSTALLATION WITH A CAR, A DEFLECTING ...

3) Family number: 42164277 (US2008271954A) © PatBase

Title: ELEVATOR INSTALLATION WITH A CAR, A DEFLECTING ROLLER FOR AN ELEVATOR INSTALLATION, AND A METHOD OF ARRANGING A LOAD SENSOR IN AN ELEVATOR CAR

Priority:

CA20082630338	20080501	EP20070103969	20070312	EP20070105131	20070328
EP20070107468	20070503	EP20070109521	20070604	EP20070110653	20070620
EP20070112641	20070717	EP20070114522	20070817	EP20070118710	20071017
EP20070120211	20071107	EP20080155442	20080430	EP20080717939	20080318
EP20080715742	20080212	EP20080760447	20080604	WO2008EP01068	20080212
WO2008EP53206	20080318	WO2008EP59194	20080714	WO2008EP56864	20080604
WO2008EP57891	20080620	EP20080761280	20080620	EP20080786145	20080714
WO2008EP60208	20080804	EP20080786821	20080804	WO2008EP63840	20081015
EP20080839287	20081015	US20100738744	20100520	US20140327830	20140710
US20100450133	20100211	US20140511443	20141010		

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: INVENTIO AG

Assignee(s):[(std)]**:** ACH ERNST ; ALLWARDT ANKE ; ATTINGER ADRIAN ; BAUMGARTNER URS ; BLOECHLE HANS ; FISCHER DANIEL ; INVENTIO AG ; GREMAUD NICOLAS ; GRUNDMANN STEFFEN ; BEGLE GUNTRAM ; HENNEAU PHILLIPE ; MUFF JOSEPH ; KUETTEL HEINRICH ; RISCH DAVID ; WEINBERGER KARL ; KOCHER HANS ; KREISER ANDRE ; SCHINDLER GROUP

Assignee(s): INVENTIO HERGISWIL AG ; INVENTSIO AG

Inventor(s):[(std)]**:** ADRIAN ATTINGER ; ALLWARDT ANKE ; ATTINGER ADRIAN ; BAUMGARTNER URS ; BEGLE GUNTRAM ; BLOCHLE HANS ; BLOECHLE HANS ; DANIEL FISCHER ; DAVID RISCH ; ERNST ACH ; FISCHER DANIEL ; ACH ERNST ; FISHER DANIEHL ; GREMAUD NICOLAS ; GRUNDAMANN STEFFEN ; GRUNDMANN STEFFEN ;

GUNTRAM BEGLE ; HANS KOCHER ; HENNEAU PHILLIPE ; KARL WEINBERGER ; KOCHER HANS ; KREISER ANDRE ; KUETTEL HEINRICH ; KUTTEL HEINRICH ; MUFF JOSEPH ; NICOLAS GREMAUD ; RISCH DAVID ; STEFFEN GRUNDMANN ; WEINBERGER KARL

Inventor(s): STEFFEN GRUNDAMANN ; FISHER DANIEHL' ; ACH ERNST 6030 ; BLOECHLE HANS 6052

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; RICHES MCKENZIE AND HERBERT LLP; GAUSSMANN ANDREAS ET AL; BLOECHLE HANS ET AL; GAUSSMANN ANDREAS; BLOECHLE HANS; HELLEBRANDT MARTIN; CARPINTERO MARIO; AZNAREZ PABLO; FRASER CLEMENS MARTIN AND MILLER LLC; WOLFF AND SAMSON PC; WILLIAM J; FRASER; MARTIN AND MILLER LLC; SHUMAKER LOOP AND KENDRICK; CHIESA SHAHINIAN AND GIANTOMASI PC; INVENTIO AG

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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B31D1/00 B66B1/00 B66B1/14 B66B1/24 B66B1/32 B66B1/34 B66B1/36 B66B11/00 B66B11/04 B66B11/08 B66B15/04 B66B3/00 B66B5/00 B66B5/02 B66B5/14 B66B5/16 B66B7/04 B66B7/06 B66B7/08 B66B7/12 D07B1/00 D07B1/02 D07B1/06 D07B1/16 D07B1/22 D07B5/00 F16G5/00 F16G5/06 F16G9/00 F16G9/04 F16H55/36 G01G3/16 (Advanced/Invention);
B66B1/14 B66B1/24 B66B7/06 D07B1/06 D07B1/16 D07B1/22 (Advanced/Non–invention);
B31D1/00 B66B1/00 B66B1/14 B66B1/24 B66B1/34 B66B11/00 B66B11/04 B66B15/00 B66B5/00 B66B5/02 B66B5/14 B66B5/16 B66B7/00 B66B7/02 B66B7/06 B66B7/12 D07B1/00 F16G5/00 F16G9/00 F16H55/36 (Core/Invention);
B66B (Subclass/Invention)

International class (IPC 1–7): B66B13/00 B66B7/08

CPC: B66B5/18 B66B5/027 B66B1/3476 B66B11/02 B66B7/085 B66B7/08 B66B7/1223 B66B7/123 B66B7/1261 B66B11/008 D07B2201/1012 D07B2201/2024 D07B2201/204 D07B2201/2047 D07B2201/2078 D07B2201/2088 D07B2401/2075 D07B2501/403 B66B7/1215 B66B11/08 B66B11/0045 B66B11/0095 B66B11/0438 D07B1/08 D07B1/145 D07B5/10 D07B2201/104 D07B2201/2017 D07B2201/2018 D07B2201/2073 D07B2201/2093 D07B2201/2094 F16G5/06 B66B7/062 D07B1/22 D07B2501/2007 B66B15/04 D07B1/0673 D07B1/16 D07B1/162 D07B5/005 D07B5/006 D07B2201/1008 D07B2201/2086 D07B2201/2087 D07B2401/2015

European class: B66B1/34D B66B11/00C4 B66B11/00R8 B66B11/00R8D B66B11/02 B66B11/04R1 B66B15/04 B66B5/02B B66B5/18 B66B7/06A B66B7/08 B66B7/08B B66B7/12 B66B7/12B2 B66B7/12B2B B66B7/12B2D B66B7/12B2F B66B7/12B4 B66B7/12D2 B66B7/12D4 B66B7/12F2 B66B7/12F4 D07B1/06C D07B1/08 D07B1/14B D07B1/16B D07B1/22 D07B5/00C D07B5/10 N07B1/06C N07B1/14B N07B1/16 N07B1/22 N07B201/10A10 N07B201/10B N07B201/10E N07B201/20B10A N07B201/20B10B N07B201/20B28 N07B201/20B36B N07B201/20C N07B201/20D12 N07B201/20E20 N07B201/20F10B N07B201/20F20 N07B201/20F20A N07B201/20F50A N07B201/20F50B N07B401/20B N07B401/20H12 N07B501/20A N07B501/40A N07B801/90

US class: 187/250 187/250S 187/251 187/251S 187/254 187/254S 187/266 187/281 187/288 187/351 187/393 187/393S 187/414 187/414S 474/204 493/393 493/393S

Classification Explorer

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Forward Citations: WO17172891, WO17172886, WO17160581, WO17155943, WO17153250, WO17001884, WO16209874, WO16198397, WO16087706, WO15063722, WO15063511, WO15006283, WO14202355, WO14202355, WO14063900, WO13010878, WO12159824, WO12031961, WO11141893, WO11141893, WO11128224, WO11128223, WO11073152, WO10084103, WO10056247, WO10002410, US9809418, US9796560, US9791009, US9764927, US9731939, US9701517, US9695014, US9676593, US9676592, US9618409, US9617116, US9572427, US9428364, US9365395, US9365392, US9347520, US9327941, US9317269, US9297954, US9266699, US9235491, US9126805, US9108823, US9093937, US9056747, US9051154, US9050768, US9010497, US9004232, US8997942, US8997405, US8991562, US8939261, US8925689, US8857571, US8794387, US8789658, US8757328, US8718352, US8677726, US8668055, US8656696, US8640828, US8579545, US8430210, US8109369, US8015727, US7631731, US2016376127, US2016039640, US2016039638, US2015375963, US2015362450, US2015291403, US2015266701, US2015101888, US2014311257, US2014305744, US2014299419, US2014096125, US2014014443, US2014008153, US2013243357, US2013206516, US2013153340, US2013056305, US2012318613, US2012279809, US2012195733, US2012090924, US2012037460, US2012024637, US2012015187, US2011290591, US2011283814, US2011268313, US2011259677, US2011247902, US2011226563, US2011226562, US2011220438, US2011217123, US2011088981, US2009139802, US2008135343, US2008116014, US2008017454, US2005102854, US2005060979, TWI519464, RU2563926, JP2013539735, JP2012508679, FR3017916, ES2627604, ES2550527, EP3196157, EP3126277, EP2913288, EP2894119, EP2617348, EP2574584, EP2567925, EP2567924, EP2524890, EP2345616, EP2332874, EP2311767, EP2261162, EP2210848, DE202016101183, DE112009002722, DE102013103118, DE102012200794, DE102012106056, DE102012015580, DE102011002796, CN105683079, CN105329732, CN105060078, CN104386563, CN104150307, CN103876681, CN103876681, CN103821820, CN103547525, CN103547525, CN103193143, CN102869596, CN102822081, CN102395521, CH705350,

Abstract:
Source: US2008271954A An elevator installation and a method for arranging a load sensor in the elevator installation includes a car, a support device for supporting the car, the load sensor and a deflecting roller unit. The deflecting roller unit is arranged at the car and has at least two deflecting rollers which are rotatable about a common axle. The load sensor is arranged on the common axle between the two deflecting rollers.

0) US2009277169A – OVERHEATING PROTECTION FOR SHAPE MEMORY ALLOY A...

4) Family number: 43959958 (US2009277169A) © PatBase

Title: OVERHEATING PROTECTION FOR SHAPE MEMORY ALLOY ACTUATORS

Priority:

US20080051351P 20080508 US20080250148 20081013 US20090437768 20090508
US20090437867 20090508 US20090437722 20090508 US20100792120 20100602
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US20120452597 20120420 US20130834709 20130315 WO2009US43294 20090508

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: GM GLOBAL TECH OPERATIONS INC

Assignee(s):(std)**:** ALEXANDER PAUL W ; BROWNE ALAN L ; GAO XIUJIE ; GM GLOBAL TECH OPERATIONS INC ; GM GLOBAL TECH OPERATIONS LLC N D GES D STAATES DELAWARE ; JOHNSON NANCY L ; HERRERA GUILLERMO A ; HENRY CHRISTOPHER P ; KEEFE ANDREW C ; MC KNIGHT GEOFFREY P ; SMITH SLOAN ; MCKNIGHT GEOFFREY P ; SKURKIS RICHARD J ; USORO PATRICK B ; MANKAME NILESH D ; PINTO IV NICHOLAS W ; STROM KENNETH A ; PINTO NICHOLAS WILLIAM ; SAROSI PETER MAXWELL ; STEVENSON ROBIN ; LAWALL JENNIFER P ; HAO LEI

Assignee(s): GM GLOBAL TECHNOLOGY OPERATIONS LLC NDGESD STAATES DELAWARE ; UAW RETIREE MEDICAL BENEFITS TRUST ; UNITED STATES DEPARTMENT OF TREASURY ; WILMINGTON TRUST CO ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GES D STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ND GES DSTAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GESETZEN DES STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ND GES D STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATION US CORP ; GM GLOBAL TECHNOLOGY OPERATIONS INC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC

Inventor(s):(std)**:** ALAN L BROWNE ; ALEXANDER PAUL W ; BROWNE ALAN L ; GAO XIUJIE ; HAO LEI ; HENRY CHRISTOPHER P ; HERRERA GUILLERMO A ; JOHNSON NANCY L ; KEEFE ANDREW C ; LAWALL JENNIFER P ; MANKAME NILESH ; MANKAME NILESH D ; MC KNIGHT GEOFFREY P ; MCKNIGHT GEOFFREY P ; NANCY L JOHNSON ; NICHOLAS W PINTO IV ; NILESH D MANKAME ; NILESH MANKAME ; PATRICK B USORO ; PAUL W ALEXANDER ; PINTO IV NICHOLAS W ; PINTO NICHOLAS W ; PINTO NICHOLAS WILLIAM ; SKURKIS RICHARD J ; SMITH SLOAN ; SPENNY JASON R ; STROM KENNETH A ; USORO PATRICK B ; WILLIAM PINTO NICHOLAS ; XIUJIE GAO ; STEVENSON ROBIN ; SAROSI PETER MAXWELL ; BROWNE ALAN ; SLOAN SMITH

Agent(s): SLJ LLC; MICKKI D; PARKS IP LAW LLC; REISING ETHINGTON PC; CICHOSZ VINCENT 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 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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B23P11/00 B23Q1/34 F01B29/10 F02G1/04 F03G1/00 F03G7/06 F16C9/00 F16G11/02 F16K31/00 F16K31/02 F25B49/00 G01B7/00 G01J1/44 G01N27/92 G01R27/08 G01R27/26 G05D23/02 G06F17/00 G06Q10/04 G12B1/02 H01R4/01 H01R9/00 H02N99/00 H02P31/00 (Advanced/Invention); F02G1/00 F03G1/00 F03G7/06 F16K31/00 F16K31/02 G01R27/26 G05D23/01 (Core/Invention)

CPC:

B23P11/005 H01R4/01 H01R4/023 H01R4/029 H01R4/187 H01R2004/181 F03G7/06 G12B1/02 Y10T29/49826 Y10T307/766 F03G7/065 F28F2013/008 Y10T403/21 Y10T403/217 F16G11/02 Y10T29/49908

European class: F03G7/06B F16G11/02

US class: 1/1 250/206 250/206S 29/428 29/428S 29/505 307/116 307/116S 318/135 318/135S 324/679 324/679P 324/691 324/691P 324/71.1 324/71.3 324/76.11 403/28 403/30 60/527 60/527P 60/528 60/528P 60/529

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Forward Citations: WO17120080, WO17050332, WO17050331, WO16196279, WO16168295, WO16156074, WO16109137, WO14080344, WO12076247, US9829304, US9775252, US9773627, US9764706, US9727254, US9689380, US9664182, US9588020, US9581147, US9316212, US9314885, US9267493, US9127483, US9091252, US9090334, US9067526, US9052243, US9016057, US8966893, US8804294, US8797703, US8789366, US8764286, US8733097, US8703268, US8687340, US8661810, US8640455, US8567188, US8534064, US8511082, US8495761, US8299637, US7839260, US2017229990, US2017139612, US2016347252, US2016264086, US2015323424, US2015136910, US2015083868, US2014346980, US2014298794, US2014225708, US2014096516, US2014026554, US2013305705, US2013298548, US2013240320, US2013239565, US2013227943, US2013064627, US2013055708, US2012234000, US2012113558, US2011321203, US2011296826, US2011234362, US2011232562, US2011140456, US2011139396, US2011139395, US2011114791, US2010236236, US2009108779, TWI579740, DE102016217985, DE102016217624, DE102014111460, CN104847611, CN104075650, CN103375376, CN102778075, CN102778075, CN102678496, CN102678495, CN102678495, CN102678494, CN102678494, CN102298244, CN102269142,

Abstract:
Source: US2009277169A An overheating protection system adapted for use with a shape memory alloy actuator element, includes at least one switching shape memory alloy element presenting a slower activation period than that of the actuator element, and configured to selectively prevent activation of the actuator element, when the actuator element is actually or predicted to be experiencing overheating; and a circuit comprising the system, wherein the switching element and/or a circuit implement functions to modify activation of the actuator element.

0) US2009056699A – LINEAR FRESNEL SOLAR ARRAYS AND RECEIEVERS THER...

5) Family number: 42961215 (US2009056699A) © PatBase

Title: LINEAR FRESNEL SOLAR ARRAYS AND RECEIEVERS THEREFOR

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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WO09029277 A2	20090305	WO2008US10230	20080827
WO09029277 A3	20090813	WO2008US10230	20080827

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Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; JACKSON RICHARD ERIC; BLOT PHILIPPE ROBERT EMILE; CARPINTERO MARIO; MORRISON AND FOERSTER LLP; HOLLAND CHARLES D ET AL; WALSH CECILIA A ET AL

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

International class (IPC 8–9): B23P19/04 F16G11/00 F24J2/06 F24J2/07 F24J2/10 F24J2/14 F24J2/16 F24J2/24 F24J2/38 F24J2/46 F24J2/52 F24J2/54 F24S23/00 F24S23/70 F24S23/77 H01L31/052 H01L31/054 (Advanced/Invention);
F24J2/52 (Advanced/Non–invention);
B23P19/04 F16G11/00 F24J2/00 F24J2/04 F24J2/06 F24J2/38 (Core/Invention)

International class (IPC 1–7): F24J2/07 F24J2/16

CPC: F24J2/4636 F24J2002/5281 F24J2002/5286 F24J2002/5458 H01L31/054 Y10T24/39 Y10T29/53 F24J2/18 F24J2/16 F24J2/07 F24J2/14 F24J2/245 F24J2/464 F24J2/523 F24J2/541 F24J2002/108 H01L31/0547 Y02E10/41 Y02E10/44 Y02E10/45 Y02E10/47 Y02E10/52

European class: F24J2/07 F24J2/14 F24J2/16 F24J2/18 F24J2/24E2 F24J2/46C F24J2/54B4 H01L31/052B R24J2/10P4 R24J2/24E2 R24J2/52A8 R24J2/54B4 R24J2/54P8C Y02E10/41 Y02E10/44 Y02E10/45 Y02E10/47 Y02E10/50 Y02E10/52

US class: 126/569 126/572 126/573 126/576 126/600 126/605 126/606 126/607 126/634 126/634S 126/663 126/663S 126/684 126/684S 126/685 126/687 126/687S 126/692 126/696 126/696S 126/704 126/704S 136/248 136/248S 24/115.00RS 24/115R 29/700 29/700S

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US6279312 BA, US6276359 BA, US6240682 BA, US6240662 BA, US6234166 BA, US6227280 BA, US6201181 BA, US6177131 BA, US6177131 B1, US6141949 A, US6131565 A, US6066187 A, US6035850 A, US6003508 A, US6000211 A, US5931158 A, US5899199 A, US5894838 A, US5882434 A, US5862799 A, US5860414 A, US5851309 A, US5777587 A, US5732935 A, US5643423 A, US5597005 A, US5592932 A, US5578140 A, US5542409 A, US5524610 A, US5523132 A, US5437265 A, US5374317 A, US5325844 A, US5293305 A, US5275150 A, US5272879 A, US5259479 A, US5228924 A, US5143556 A, US514338 A, US5125608 A, US5113659 A, US5062899 A, US5058565 A, US4890599 A, US4820395 A, US4820033 A, US4815443 A, US4815433 A, US4738304 A, US4730602 A, US4730423 A, US4643212 A, US4628905 A, US4611575 A, US4611090 A, US4586489 A, US4586488 A, US4559926 A, US4559925 A, US4555864 A, US4553531 A, US4532916 A, US4526005 A, US4520794 A, US4515148 A, US4512336 A, US4511756 A, US4505260 A, US4488540 A, US4483324 A, US4468848 A, US4462392 A, US4462391 A, US4459972 A, US4454371 A, US4445499 A, US4436373 A, US4435043 A, US4434787 A, US4434785 A, US4429178 A, US4424803 A, US4422893 A, US4416264 A, US4414812 A, US4398391 A, US4394859 A, US4389464 A, US4388966 A, US4385430 A, US4378790 A, US4377154 A, US4375806 A, US4367365 A, US4348135 A, US4343298 A, US4339484 A, US4337827 A, US4333447 A, US4329978 A, US4326502 A, US4326498 A, US4324947 A, US4324225 A, US4312329 A, US4312324 A, US4304221 A, US4297521 A, US4291677 A, US4289115 A, US4281642 A, US4281640 A, US4280482 A, US4270600 A, US4268332 A, US4267881 A, US4266179 A, US4263895 A, US4263894 A, US4262332 A, US4249514 A, US4243018 A, US4239344 A, US4238265 A, US4236506 A, US4233958 A, US4230094 A, US4229076 A, US4228789 A, US4222365 A, US4220140 A, US4215553 A, US4210463 A, US4210201 A, US4205660 A, US4203426 A, US4198955 A, US4196720 A, US4184477 A, US4177325 A, US4174704 A, US4172443 A, US4164123 A, US4159710 A, US4157290 A, US4149523 A, US4148164 A, US4146057 A, US4144875 A, US4144716 A, US4141626 A, US4138995 A, US4136671 A, US4135367 A, US4130106 A, US4124061 A, US4122833 A, US4117682 A, US4116225 A, US4111184 A, US4108154 A, US4106485 A, US4091622 A, US4088120 A, US4081966 A, US4078549 A, US4077391 A, US4071017 A, US4069674 A, US4067448 A, US4056313 A, US4054246 A, US4048983 A, US4048982 A, US4033118 A, US4022184 A, US4013826 A, US4004574 A, US4004571 A, US4000851 A, US3995429 A, US3986021 A, US3956030 A, US3927659 A, US3920413 A, US3892433 A, US3889531 A, US3884217 A, US3861379 A, US3817605 A, US3466119 A, US3464885 A, US3311458 A, US3026858 A, US2945417 A, US2846724 A, US2793018 A, US2625930 A, US2012111317 AA, US2012011850 AA, US2011297143 AA, US2011259318 AA, US2011226308 AA, US2011180059 AA, US2010300510 AA, US2010071683 AA, US2009322089 AA, US2009208761 AA, US2009205637 AA, US2009199888 AA, US2009139515 AA, US2009126364 AA, US2009121495 AA, US2009107489 AA, US2009107488 AA, US2009107487 AA, US2009101138 AA, US2009090109 AA, US2009084760 AA, US2009078302 AA, US2009056703 AA, US2009056701 AA, US2009056699 AA, US2009032095 AA, US2008308094 AA, US2008302314 AA, US2008271731 AA, US2008251113 AA, US2008236571 AA, US2008230108 AA, US2008184789 AA, US2008134679 AA, US2008128017 AA, US2008127647 AA, US2008034757 AA, US2008029150 AA, US2008011290 AA, US2008000231 AA, US2007227573 AA, US2007221208 AA, US2007199563 AA, US2007157923 AA, US2007157614 AA, US2007151194 AA, US2007084208 AA, US2007035864 AA, US2007012041 AA, US2006266039 AA, US2006260314 AA, US2006249143 AA, US2006225729 AA, US2006181765 AA, US2006157050 AA, US2006150967 AA, US2006144393 AA, US2006107664 AA, US2005284467 AA, US2005279953 AA, US2005279095 AA, US2005229924 AA, US2005189525 AA, US2005150225 AA, US2005126560 AA, US2005126170 AA, US2004261788 AA, US2004261334 AA, US2004231716 AA, US2004139960 AA, US2004139689 AA, US2004128923 AA, US2004074490 AA, US2004011355 AA, US2004004175 AA, US2003173469 AA, US2003137754 AA, US2003101565 AA, US2003047180 AA, US2003034029 AA, US2002180404 AA, US2002078945 AA, US2001045212 AA, US1852925 A, US1240890 A, US1174602 A, JPS5886353, JPS58150753, JP8184063 A2, JP63183346 A2, JP59100349 A2, JP58150753 A2, JP58086353 A2, JP58062460 A2, JP56002441 A2, JP2110254 A2, JP2004069197 A2, JP2000101123 A2, JP2000097498 A2, GB931986 A, GB2154729 A1, GB2054829 A1, GB2037977 A1, FR2637967 A1, FR2391420 A1, FR1520370 A, EP2093520 A2, EP2093518 A1, EP2053242 A2, EP2000669 A2, EP1930587 A2, EP1873397 A2, EP1801517 A1, EP1795829 A2, EP1764565 A1, EP1754942 A1, EP1746363 A2, EP1610073 A2, EP1598608 A2, EP1537921 A1, EP1519108 A1, EP1291591 A2, EP1243872 A2, EP1164337 A1, EP1056978 B1, EP0986695 B1, EP0815401 B1, EP0151045 A2, EP0129821 A2, EP0106688 A2, EP00526816, EP00129821, EP0012037 A1, DE9417466 U, DE4218403 A1, DE4208255 A1, DE3922903 A1, DE3049331 A1, DE3003962 A1, DE2945908 A1, DE2802859 A1, DE19932646 A1, DE19854391 A1, DE19740644 A1, DE19723543 A1, DE19619021 A1, DE10328321 A1,

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Abstract:
Source: US2009056699A Described herein are solar energy collector systems, components for solar energy collector systems, and methods for installing solar energy collector systems. The components for solar energy collector systems include but are not limited to solar radiation absorbers, receivers, drives, drive systems, reflectors, and various support structures. The solar energy collection systems, solar radiation absorbers, receivers, drives, drive systems, reflectors, support structures, and/or methods may be used, for example, in LFR solar arrays. Improved solar radiation absorbers, receivers and related methods are described here.

0) US2010257701A – CORD LOCK ASSEMBLY

6) Family number: 42856459 (US2010257701A) © PatBase

Title: CORD LOCK ASSEMBLY

Priority: EP20080781502 20080708 US20070959769P 20070717 WO2008US69421 20080708 US20080669234 20080708

Family:

Publication number	Publication date	Application number	Application date
CA2685600 AA	20090122	CA20082685600	20080708
CA2685600 C	20120424	CA20082685600	20080708
CN101680509 A	20100324	CN200880016813	20080708
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KR200470934 Y1	20140122	KR20107000001U	20080708
KR20100004862 U	20100511	KR20107000001U	20080708
US2010257701 AA	20101014	US20080669234	20080708
US8424169 BB	20130423	US20080669234	20080708
WO09012081 A1	20090122	WO2008US69421	20080708

Probable Assignee: ILLINOIS TOOL WORKS INC

Assignee(s):(std)**:** GAMMELL ROBERT A ; ILLINOIS TOOL WORKS ; KOLASA SCOTT D

Assignee(s): ILLINOIS TOOL WORKS INC ; ILLINOIS TOOL WORKS INC GLENVIEW

Inventor(s):(std)**:** GAMMELL ROBERT A ; KOLASA SCOTT D

Inventor(s): KOLASA SCOTT D MOUNT PROSPECT ; GAMMELL ROBERT A FERNIE

Agent(s): FINLAYSON AND SINGLEHURST; MEISSNER BOLTE AND PARTNER; AOKI ATSUSHI; TSURUTA JUNICHI; SHIMADA TETSURO; ILLINOIS TOOL WORKS INC; MARK W; PAUL F; HAUPTMAN BENJAMIN J

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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9)**:** A43B11/00 A43C7/08 A44B99/00 F16G11/00 F16G11/10 (Advanced/Invention); A43B11/00 A43C7/08 F16G11/10 (Advanced/Non–invention); A43C7/00 F16G11/00 (Core/Invention); A43C7/00 (Core/Non–invention)

CPC: Y10T24/3984 A43C1/00 A43C1/06 F16G11/101 A43C7/00

European class: A43C1/00 A43C1/06 A43C7/00 F16G11/10

US class: 24/115.00GP 24/115G

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Forward Citations: WO13073530, USD662288, USD630502, US9719296, US9187952, US9179751, US9151110, US9149143, US8997314, US2016037846, US2014000822, US2012159752, JP6056115, JP5577139, JP2014018541, JP2011217999, JP2011142957, JP2011019899, CN104939436, CN103945725,

Abstract:
Source: US2010257701A Embodiments of the present invention provide a cord lock assembly configured to selectively tighten and loosen a draw cord of an article. The cord lock assembly may include a shell, a piston and a spring member. The shell defines an interior chamber and includes aligned shell cord passages. The piston is slidably retained within the interior chamber. The piston includes a piston cord passage formed therethrough. The spring member exerts a force into the piston within the shell so that the piston cord passage is misaligned with respect to the shell cord passages in a locked position. A cord may be operatively secured to the piston and may be configured to be pulled to move the piston to align the piston cord passage with the shell cord passages in an unlocked position so that a draw cord may freely pass therethrough.

0) US2016356292A – CABLE LOCK AND SEAL DEVICE

7) Family number: 60056352 (US2016356292A) © PatBase

Title: CABLE LOCK AND SEAL DEVICE

Priority: MY20140700257 20140207 WO2015MY00008 20150205

Family:

Publication number	Publication date	Application number	Application date
CL2016001992 A1	20170417	CL20160001992	20160808
CN106133391 A	20161116	CN201580017547	20150205
CO20160001162 A2	20170209	CO20160001162	20160825
CR20160390 A	20170119	CR20160000390	20150205
EP3102848 A1	20161214	EP20150745948	20150205
EP3102848 A4	20171004	EP20150745948	20150205
MX2016010298 A1	20170206	MX20160010298	20150205
PE14612016 A1	20170127	PE20160001439	20150205
US2016356292 AA	20161208	US20150117193	20150205
WO15119494 A1	20150813	WO2015MY00008	20150205

Probable Assignee: MEGA FORTRIS MALAYSIA SDN BHD

Assignee(s):(std)**:** MEGA FORTRIS MALAYSIA SDN BHD

Inventor(s):(std)**:** CHUA YUEN KAM ; YUEN KAM CHUA

Agent(s): ESTUDIO CLARKE MODET AND CO CHILE LIMITADA; CAROLINA MERCEDES DAZA MONTALVO; SCHNEIDER MICHAEL; CHEW KHERK YING 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

International class (IPC 8–9): F16B2/08 F16B2/12 F16G11/04 F16G11/10 F16G11/14 G09F3/03 (Advanced/Invention)

CPC: F16G11/106 F16B2/12 F16B2/08 G09F3/0352 F16G11/14 G09F3/0323

US class: 24/136R

Classification Explorer

Cited documents: WO0138756 A1, US8578566 BB, US8001660 BB, US6719335 BB, US6578886 BA, US6550830 BB, US6345847 BA, US5820176 A, US5647620 A, US5611583 A, US5538300 A, US5352003 A, US4640538 A, US4074916 A, US2011041292 AA, US2006196016 AA, EP1172781 A1, EP0630450 B1, CN102089549 A,

Abstract:
Source: US2016356292A A cable lock and seal device comprising a body and a cover with which complementarily forms a block enclosing there within a passage and a chamber. The body is integral with a base in which one end of a cable may be secured. The other free end of the cable may be inserted into the passage which is preferably curved and traverses the assembled body–and–cover block. The chamber is adapted with a ramp rising towards the passage, a slot for retaining a spring which second end is disposed to urge a locking wheel up the ramp against said passage. The urging of the locking wheel by the biasing means up the ramp is restrained when the locking wheel's axle engages a rib on the chamber wall to limit the wheel's further entry into the passage upon sufficiently engaging said cable and preventing its withdrawal by reversing its insertion.

8) Family number: 17754 (US3628221A) © PatBase

Title: DEVICE FOR CLAMPING AND TIGHTENING CABLES AND THE LIKE

Priority:

AT19670010390	19671117	AT19690002799	19690320	BE19670705491	19671023
BE19690732367	19690430	CA19720141881	19720511	CA19720141882	19720511
CA19720145793	19720627	DE19681278583	19680502	DE19670043192	19671017
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SE19670017803	19671227	NL19740015856	19741205	NL19670016156	19671128
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DE1968L032077	19680916	DE1968P032119U	19680925	GB19680024444	19680522
DE1968L032119U	19680925				

Family:

Publication number	Publication date	Application number	Application date
AT276286 B	19691125	AT19670010390	19671117
AT290448 B	19710611	AT19690005246	19680520
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DE1277407 B	19680912	DE19681277407	19680411
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DE1914288 B	19691211		00000000
DE1914289 B	19691211		19690320
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NO131044 C	19750325	NO19680004091	19681016	
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RO56600 P	19740429	RO19680057954	19681017	
SE349903 B	19721009	SE19670017803	19671227	
SE350878 B	19721106	SE19700003461	19700316	
SE367094 B	19740513	SE19680013858	19681015	
SE373001 B	19750120	SE19680006624	19680516	
SE373001 C	19750430	SE19680006624	19680516	
SE375194 B	19750407	SE19720000924	19681015	
SE375194 C	19750717	SE19720000924	19681015	
SU491243 D	19751105	SU19681276849	19681017	
US3628221 A	19711221		00000000	
ZA7001678 A	19710331	ZA19700001678	19700311	

Probable Assignee: LACREX BREVETTI SA

Assignee(s):(std)**:** LACREX BREVETTI SA ; PASBRIG ; PASBRIG M ; PASBRIG MAX

Assignee(s): 1LACREX BREVETTI SA ; LACREX BREVETTI CH SA ; LACREX BREVETTI SA CH ; MAX PASBRIG ; MAX PASBRIG TE ORSELINA ZWITSERLAND

Inventor(s):(std)**:** MAX PASBRIG ; PASBRIG M ; PASBRIG MAX

Inventor(s): PASBRIG M CH

International class (IPC 8–9)**:** A44B11/16 A44B11/25 A44C5/20 B60M1/26 F16B21/14 F16G11/00 F16G11/04 F16G11/10 F16K24/04 H01R11/22 H01R13/20 H01R4/52 H01R9/22 H02G1/04 H02G7/05 (Advanced/Invention) ; A44B11/00 A44B11/25 A44C5/18 B60M1/00 F16B21/00 F16G11/00 F16K24/00 H01R11/11 H01R13/02 H01R4/52 H01R9/22 H02G1/04 H02G7/00 (Core/Invention)

International class (IPC 1–7)**:** A44B11/10 A44B11/25 A44C11/02 A62B35/00 B60R21/10 B64D25/06 F16G11/00 F16G11/10 F16G11/12 F16K45/00 F16K47/02 H01R11/22 H01R4/48 H01R4/52 H01R7/00 H01R7/06 H01R7/28 H02G1/00 H02G7/02 H02G7/05 H02G7/06

CPC: F16K24/04 H01R4/52 H01R13/20 B60M1/26 H01R9/226 H01R43/26 Y10T24/3969 Y10T24/3978 Y10T24/4079 Y10T403/1658 Y10T403/1674 Y10T403/39 Y10T403/5721 Y10T403/5793 Y10T403/599 Y10T403/602 F16G11/105 A44B11/16 A44B11/2519 A44C5/2052 F16G11/108 F16G11/106 F16G11/12 F16G11/103 F16G11/08 F16G11/143 H02G7/056

European class: A44B11/16 A44B11/25B2C2 A44C5/20H B60M1/26 F16G11/00 F16G11/10 F16K24/04 H01R13/20 H01R4/52 H01R43/26 H01R9/22S H02G7/05B3

US class: 226/147 226/167 24/126L 24/136B 24/136R 24/194 254/251 403/18 403/187 403/20 403/303 403/314 403/325 403/327 439/783

Classification Explorer

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A, FR790186 A, FR1230690 A, DE1233452 B,

Forward Citations: WO9843507, WO8902994, WO16128782, WO16102907, WO11004152, WO09071806, WO09071806, WO07143767, WO07121775, WO04105187, WO03053127, WO03053127, US9695908, US9534660, US9131939, US8881349, US8857039, US8137095, US8112847, US6994385, US6832414, US6546600, US6443082, US6178604, US5617980, US5147145, US5056954, US4889320, US4443914, US4167054, US4091508, US3939594, US3927441, US2017054228, US2014249540, US2013160245, US2012311824, US2011204619, US2010084774, US2007276437, US2005088000, JP5853149, JP2013110016, GB2522537, GB2509807, GB2509807, GB2290105, GB2290105, GB2247926, GB2240581, GB2233032, GB2233032, FR2923993, FR2509810, FR2309763, FR2309763, EP0971607, EP0296537, EP0296537, CN104577402, CN102359477, AU610948, AU2013336485,

Abstract:
Source: GB1227568A 1,227,568. Buckles. M. PASBRIG. 22 May, 1968, No. 24444/68. Heading E2A. A buckle comprises a spring urged pivotable and translatable clamping means for a belt. The buckle 5 has an inclined slot 7 communicating with a slot 6 for the slidable passage of a belt section 4. Another belt section 3 is fixedly secured to one end of the buckle. A spring urged slide 8, within the buckle, pivotally supports clamping members 12, 13 which pivot to clamp the belt section 4 when tension is applied thereto. The belt section is released by gripping a handle 11 projecting laterally from each side of the buckle and moving the slide against the action of two helical springs 18. The helical springs are replaced by a leaf spring in one modification. In another modification, Figure 9 not shown, the end of the belt section 3, or a vehicle mounting point, is detachably secured to the buckle by a plate having a grooved end which is gripped by a second set of clamping members attached to the slide and is released against spring pressure by sliding a member projecting from the front of the buckle. In a further modification the clamping and releasing members are duplicated in order that both sections of the belt are adjustable.

0) US2006035740A – TIMING BELT TENSIONER WITH STOPS CONTROLLED BY ...

9) Family number: 28635941 (US2006035740A) © PatBase

Title: TIMING BELT TENSIONER WITH STOPS CONTROLLED BY FRICTIONAL BRAKE

Priority: EP20020782567 20021203 EP20070004611 20021203 US20010003358P 20011205 US20010335801P 20011205 US20040497958 20040607 US20020497958 20021203 WO2002CA01854 20021203 US20090349796 20090107 WO2002CA01854 20040604

Family:

Publication number	Publication date	Application number	Application date
AU2002347150 AA	20030617	AU20020347150	20021203
BRPI0214737 A	20040914	BR2002PI14737	20021203
BRPI0214737 B1	20110222	BR2002PI14737	20021203
CA2469497 AA	20040607	CA20022469497	20021203
CA2469497 C	20100720	CA20022469497	20021203
CN100439758 C	20081203	CN20028024421	20021203
CN1599847 A	20050323	CN20028024421	20021203
DE60225716 D1	20080430	DE20026025716	20021203
DE60225716 T2	20090430	DE20026025716T	20021203
DE60242052 D1	20120315	DE20026042052	20021203
EP1451486 A1	20040901	EP20020782567	20021203
EP1451486 B1	20080319	EP20020782567	20021203
EP1788283 A2	20070523	EP20070004611	20021203
EP1788283 A3	20090902	EP20070004611	20021203
EP1788283 B1	20120118	EP20070004611	20021203
JP2005511984 T2	20050428	JP20030549763T	20021203
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KR100933816 B1	20091224	KR20047008564	20021203
KR20050044684 A	20050512	KR20047008564	20021203
US2006035740 AA	20060216	US20020497958	20021203
US2009176609 AA	20090709	US20090349796	20090107
US7507172 BB	20090324	US20020497958	20021203
US8267819 BB	20120918	US20090349796	20090107
WO03048606 A1	20030612	WO2002CA01854	20021203

Probable Assignee: LITENS AUTOMOTIVE

Assignee(s):(std)**:** FORREST RICHARD A ; FRANKOWSKI MAREK ; LEHTOVAARA JORMA J ; LIPOWSKI MATS K ; LITENS AUTOMOTIVE ; STEPNIAK JACEK ; LITENS AUTOMOTIVE INC ; STEPNIAK

Assignee(s): LITENS AUTOMOTIVE PARTNERSHIP ; LITENS AUTOMOTIVE WOODBRIDGE

Inventor(s):(std)**:** STEPNIAK JACEK ; RICHARD A FORREST ; MATS K LIPOWSKI ; MAREK FRANKOWSKI ; STEPNIAK ; LIPOWSKI MATS K ; LEHTOVAARA JORMA J ; JORMA J LEHTOVAARA ; JACEK STEPNIAK ; FRANKOWSKI MAREK ; FORREST RICHARD A

Inventor(s): FORREST RICHARD ; FORREST RICHARD A COOKSTOWN ; FRANKOWSKI MAREK STROUD ; LEHTOVAARA JORMA ; LIPOWSKI MATS ; LEHTOVAARA JORMA J ETOBICOKE ; STEPNIAK JACEK INNISFIL ; LIPOWSKI MATS K TORONTO

Agent(s): BRANDT KERSTIN B; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER ANWALTSSOZIETAET; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER; ROBIN W ASHER CLARK HILL; HARNESS DICKEY AND PIERCE PLC; CLARK HILL PLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG

MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

International class (IPC 8–9): F16D41/20 F16G9/00 F16H7/08 F16H7/12 (Advanced/Invention); F16D41/20 F16H7/08 F16H7/12 (Advanced/Non–invention); F16D41/00 F16G9/00 F16H7/12 (Core/Invention); F16H7/08 (Core/Non–invention)

International class (IPC 1–7): F16D41/20 F16H7/12

CPC: F16D41/206 F16H7/0831 F16H7/0834 F16H7/1218 F16H7/129 F16H2007/081 F16H2007/084

European class: F16D41/20C F16H7/12D1 F16H7/12N4R R16H7/08A4 R16H7/08D1 R16H7/08D2 R16H7/08D5

US class: 474/109 474/112 474/112P 474/237 474/237P

Classification Explorer

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Forward Citations: WO14190360, WO14063228, WO13131166, WO11160208, WO11138100, WO11130833, WO10033160, WO09056373, WO07034060, WO06105656, WO06099731, WO06076799, WO05119089, US9790817, US9777807, US9752628, US9726051, US9464697, US9447850, US9291253, US9290235, US9212731, US9181989, US9175753, US9151366, US8932163, US8888622, US8870694, US8734279, US8684872, US8684693, US8678157, US8613680, US8562467, US8562466, US8523720, US8328442, US8267819, US8257211, US8105195, US8002657, US7998008, US7980976, US7901309, US7874950, US7507172, US2016215859, US2015362047, US2015275706, US2015031485, US2015031484, US2014371013, US2014329631, US2014014458, US2013324335, US2013217526, US2011256969, US2011237372, US2011014047, US2011003657, US2010261564, US2010105508, US2010029423, US2010029422, US2009325749, US2009317162, US2009176609, US2009011881, US2008139353, US2007259744, KR101340222, JP2013525698, JP2009513913, GB2478543, FR3011598, FR2891039, EP2057388, EP1788283, EP1764524, CN105247243, CN104989793, CN104989793, CN103649595, CN102959262, CN102959262, CN102859233,

Abstract:
Source: US2006035740A A tensioner (10) features a backstop device (40) which allows free rotation of the pivot arm (20) in one direction but not the other. Reverse rotation is prevented by friction that is able to resist torque on the pivot arm (20) under ordinary operating conditions which otherwise could permit belt tooth–skip to occur. In disclosed embodiments, the backstop device (40) includes a stop sleeve (50) and a clamp holder (60) which are axially interlocked and are able to rotate relative to each other. A clutch spring (80) surrounds permits relative rotation between the stop sleeve (50) and the clamp holder (60) in one direction but not the other. A clamp (70) retained within the clamp holder (60) frictionally engages the pivot shaft. A viscous coupling may be used in place of the frictional clamp.

0) US2005247813A – BI–DIRECTIONAL DEVICE

10) Family number: 32393072 (US2005247813A) © PatBase

Title: BI–DIRECTIONAL DEVICE

Priority: US20040569304P 20040507 US20040608397P 20040909 US20050123900 20050506 US20050222549 20050909 US20050123942 20050506 US20050656335P 20050225 US20070837639 20070813 US20070931002 20071031 US20070930967 20071031 US20060382710 20060511 US20060382708 20060511 US20060276400 20060227 US20060276357 20060224 US20060382706 20060511 WO2006US07080 20060227 US20070931027 20071031

Family:

Publication number	Publication date	Application number	Application date
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US2005247813 AA	20051110	US20050123900	20050506
US2006015988 AA	20060126	US20050123942	20050506
US2006185357 AA	20060824	US20060276357	20060224
US2006202077 AA	20060914	US20060382708	20060511
US2006202078 AA	20060914	US20060382710	20060511
US2007039085 AA	20070222	US20060382706	20060511
US2008156924 AA	20080703	US20070837639	20070813
US2008223972 AA	20080918	US20070931002	20071031
US2011072566 AA	20110331	US20060276400	20060227
US2011167543 AA	20110714	US20070930967	20071031
US2012167290 AA	20120705	US20070931027	20071031
US7249727 BB	20070731	US20060382708	20060511
US7252259 BB	20070807	US20060382710	20060511
US7516914 BB	20090414	US20050123900	20050506
US7694354 BB	20100413	US20050123942	20050506
WO06091976 A2	20060831	WO2006US07080	20060227
WO06091976 A3	20061019	WO2006US07080	20060227
WO06091976 C1	20061130	WO2006US07080	20060227

Probable Assignee: ENVENTYS LLC

Assignee(s):(std)**:** BIZZELL DANIEL L ; BIZZELL DANIEL LEE ; DAHLQUIST KEVIN J ; ENVENTYS LLC ; KOVACEVICH IAN ; KOVACEVICH IAN D ; PHILPOTT TOM J ; PHILPOTT TOM

Inventor(s):(std)**:** DAHLQUIST KEVIN J ; KOVACEVICH IAN ; KOVACEVICH IAN D ; PHILPOTT TOM ; PHILPOTT TOM J ; BIZZELL DANIEL L ; BIZZELL DANIEL LEE

Inventor(s): DAHLQUIST KEVIN ; BIZZELL DANIEL

Agent(s): TILLMAN IVSAN PLLC; TILLMAN WRIGHT PLLC; JAMES D; CHAD D; WRIGHT JAMES D; TILLMAN CHAD D

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

International class (IPC 8–9): A41D13/00 A41D13/05 A41F19/00 A42B1/04 A42B1/06 A42B1/22 A42B3/08 A42B3/14 A61F9/02 B65H23/00 B65H75/30 B65H75/38 B65H75/40 F16D39/00 F16G11/12 F41H1/00 F41H1/02 (Advanced/Invention); A42B1/00 A42B1/04 A42B3/04 A61F9/02 B65H23/00 B65H75/38 F16G11/00 (Core/Invention)

International class (IPC 1–7): B65H75/40

CPC: A41D15/00 A41D2400/38 A41D13/0518 A43C11/165 A42B3/14 A42B3/08 F41H1/04 A41D1/04 A41F1/008 A42B3/145 F16G11/12 F41H1/02

European class: A41D13/05D A41D15/00 A42B3/08 A42B3/14 A42B3/14C F16G11/12 F16G11/14 F41H1/02 F41H1/04 K41D1/04 K41D13/05D K41D400/38 K41F1/00F

US class: 2/2.5 2/2.500S 2/205 2/205P 2/336 2/336S 2/410 2/416 2/417 2/417P 2/427 2/427S 2/463 2/463P 242/388.1 242/388.2 242/388.3 242/388.6 242/388.7 242/388.8 242/394 242/395 242/410 242/410P 242/432.2 242/432.200S 60/487 60/487P

Classification Explorer

Cited documents: US881772 A, US8201271 BB, US813574 A, US8087102 BB, US7721357 BB, US7694354 BB, US757893 A, US7252259 BB, US7249727 BB, US6804978 BB, US6698024 BB, US6651543 BB, US6649609 BB, US6543055 BB, US6532602 BB, US6526862 BA, US6523083 BA, US6507486 BB, US6449769 BA, US6442765 BA, US6385780 BA, US6381760 BA, US6339849 BA, US6324700 BA, US6298497 BA, US6289558 BA, US6279172 BA, US6263511 BA, US6256798 BA, US6202953 BA, US6202223 BA, US6189156 BA, US6185738 BA, US6182288 BA, US6159324 A, US6151710 A, US6138283 A, US6108824 A, US6047399 A, US6029270 A, US6007898 A, US5997140 A, US5974585 A, US5972477 A, US5970513 A, US5956776 A, US5953761 A, US5934599 A, US5926842 A, US5896680 A, US5896587 A, US5882322 A, US5851930 A, US5833321 A, US583321 A, US5799329 A, US5797140 A, US5787513 A, US5765234 A, US5713062 A, US5669567 A, US5643874 A, US5573776 A, US5572749 A, US5515543 A, US5507471 A, US549621 A, US5495621 A, US5479659 A, US5471906 A, US5398340 A, US5373582 A, US5367712 A, US5331683 A, US5325613 A, US5274849 A, US5226192 A, US5150476 A, US5094229 A, US5077836 A, US5073985 A, US5060314 A, US5042177 A, US4557925 A, US4497069 A, US4463750 A, US4451934 A, US4404690 A, US4200098 A, US4088864 A, US3973275 A, US3971234 A, US3916899 A, US3845770 A, US3428961 A, US3208121 A, US3206855 A, US3063271 A, US2991523 A, US2611284 A, US2601409 A, US2536875 A, US2289302 A, US2012304355 AA, US2012216341 AA, US2011113520 AA, US2010313392 AA, US2008223972 AA, US2008156924 AA, US2007239092 AA, US2007061941 AA, US2007039085 AA, US2006185357 AA, US2006156517 AA, US2006015988 AA, US2005247813 AA, US2005177920 AA, US2005144612 AA, US2004143828 AA, US2004096499 AA, US2004083469 AA, US2004062166 AA, US2003204938 AA, US2003066116 AA, US2002145849 AA, US2002095750 AA, US2002007508 AA, US176926 A, JP6171836 A2, JP2000320999 A2,

Forward Citations: WO16103764, WO15163987, WO15035885, WO14163313, WO14074645, WO14074645, WO11068693, WO11068693, WO10028284, WO10008426, WO08118301, WO07092786, WO07092786, USRE45255, USD776421, USD767269, USD758061, USD751281, US9770070, US9763808, US9752854, US9743719, US9743714, US9737115, US9722407, US9717305, US9706814, US9700101, US9681705, US9635906, US9629417, US9610917, US9610185, US9532626, US9516923, US9500831, US9487970, US9439477, US9435614, US9408437, US9402431, US9380824, US9375053, US9364054, US9357807, US9354023, US9339082, US9248040, US9179729, US9162089, US9161588, US9149089, US9126802, US9125455, US9101181, US9045311, US9038251, US9003947, US8984719, US8984671, US8959723, US8959667, US8939925, US8858482, US8713820, US8627514, US8516662, US8499362, US8468657, US8438811, US8434200, US8424168, US8381362, US8322389, US8281626, US8277401, US8201271, US8146632, US8122744, US8117720, US8091182, US7963306, US7900670, US7896787, US7694354, US7516914, US7252259, US7249727, US2016262497, US2016165998, US2015327608, US2015297973, US2015289609, US2015191326, US2015107006, US2015102040, US2015007422, US2014359981, US2014243720, US2013284843, US2013239303, US2013163219, US2013014359, US2012296245, US2012180178, US2012174276, US2012167290, US2012024627, US2011225843, US2011214212, US2011198428, US2011190102, US2011113520, US2010327028, US2010299959, US2010139057, US2010062915, US2010050403, US2010021301, US2009230229, US2009184189, US2009139621, US2009084479, US2009072612, US2009066607, US2008236209, US2008223972, US2008156924, US2008066272, US2008060168, US2007199635, US2007039085, US2006202078, US2006185357, JP2013237444, JP2012066820, JP2010116039, JP2009525905, FR3013188, EP3225122, EP3027148, EP3027148, EP3003087, EP2916680, EP2853853, EP2359708, EP2284024, EP2186660, EP1976715, CN106231938, CN103040159, AU2014233550, AU2014233550,

Abstract:
Source: US2005247813A A bi−directional device includes a rotatable control handle, a first line, and a second line, each extending from a housing. When the control handle is rotated in a first rotational direction, at least a portion of the first line is drawn into the housing. When the control handle is rotated in a second rotational direction, opposite the first rotational direction, at least a portion of the second line is drawn into the housing. Optionally, the control handle is positionable into each of a drive position and a release position. The control handle is generally biased into the drive position by an elastic force such as that of a spring. While the control handle is at the drive position, those portions of the lines drawn into the housing by rotations of the control handle are prevented from being withdrawn. When the release position of the control handle is obtained, drawn portions

of the lines can be withdrawn from the housing.

0) US2010038611A – WIRE TERMINATION DEVICE

11) Family number: 34396483 (US2010038611A) © PatBase

Title: WIRE TERMINATION DEVICE

Priority: EP20080702051 20080205 GB20070002405 20070208 GB20070016424 20070823 WO2008GB00391 20080205

Family:

Publication number	Publication date	Application number	Application date
AT542972 E	20120215	AT20080702051T	20080205
AU2008212718 AA	20080814	AU20080212718	20080205
AU2008212718 BB	20120607	AU20080212718	20080205
BRPI0807113 A2	20141111	BR2008PI07113	20080205
CA2676420 AA	20090723	CA20082676420	20080205
CA2676420 C	20140916	CA20082676420	20080205
DE602008012872 D1	20120322	DE200860012872T	20080205
DK2109723 T3	20120410	DK20080702051T	20080205
EP2109723 A1	20091021	EP20080702051	20080205
EP2109723 B1	20120125	EP20080702051	20080205
ES2379025 T3	20120420	ES20080702051T	20080205
GB200702405 A0	20070321	GB20070002405	20070208
GB200716424 A0	20071003	GB20070016424	20070823
GB200802037 A0	20080312	GB20080002037	20080205
GB2446501 A1	20080813	GB20080002037	20080205
GB2446501 B2	20101006	GB20080002037	20080205
MX2009008020 A1	20090807	MX20090008020	20080205
NZ578538 A	20110826	NZ20080578538	20080205
PT2109723 T	20120208	PT20080702051T	20080205
US2010038611 AA	20100218	US20080523806	20080205
WO08096116 A1	20080814	WO2008GB00391	20080205

Probable Assignee: GRIPPLE LTD

Assignee(s):(std)**:** CLARKE NEIL ; GRIPPLE LTD ; LAMBOURN MATHEW GORDON

Assignee(s): GRIPPLE LTDSAVILE STREET EASTTHE OLD WEST GUN WORKSSOUTH YORKSHIRE S4 7UQSHEFFIELDGB ; GRIPPLE LIMITED

Inventor(s):(std)**:** LAMBOURN MATHEW ; LAMBOURN MATHEW GORDON ; CLARKE NEIL

Inventor(s): CLARKE NEILGB ; LAMBOURN MATHEW GORDONGB ; MATHEW GORDON LAMBOURN ; NEIL CLARKE

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; ROBIC; ANDREJEWSKI HONKE PATENT U RECHTSANWAELTE GBR; HOUGHTON DAVID; TREXLER BUSHNELL GIANGIORGI BLACKSTONE AND MARR LTD; HULSE THOMAS ARNOLD ET AL

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

International class (IPC 8–9): A01K3/00 E04H17/08 E04H17/26 F16G11/04 F16G11/14 (Advanced/Invention); A01K3/00 E04H17/02 F16G11/00 (Core/Invention)

CPC: A01K3/005 E04H17/266 F16G11/14 F16G11/106

European class: A01K3/00C E04H17/26B3 F16G11/04 F16G11/14

US class: 256/48 256/53

Classification Explorer

Cited documents: WO0001958 A1, US774295 A, US4717123 A, US2004195556 AA, GB899245 A, GB2378213 A1, EP0462308 A1, EP0013693 A1, DE20302616 U1, CA1279463 A1,

Forward Citations: WO13159756, WO11135126, US9670986, US9103408, US8578566, US8001660, US2014123439, US2011041292, US2009106947, NL2002914, GB2535605, ES2372195, EP2687732, EP2447569, EP2447569, EP2256367, EP2213905,

Abstract:
Source: US2010038611A A wire termination device (24) of the type having a body (25) with a first through−bore (26) into which protrudes wedging means (27) urged by spring means (28) and having a second through−bore (33) without wedging means, is characterised in that the second through−bore (33) is interrupted by a transverse notch (34), and each body portion (35A, 35B) separated by the notch (34) has a longitudinal entry slot into the second through−bore (33) with the slot (36A) in one portion (35A) at the opposite side of the body (25) to the slot (36B) in the other portion (35B), whereby the device (24) can be affixed for a horizontal wire (37) of a stock−fence by presenting the notch (34) to the wire (37) and then turning the device (24) so as to enable the wire (37) to pass through both slots (36A, 36B), whereafter a free end (38) of the wire (37) can be inserted into the first through−bore (26) after passing round an end post (39) to be secured in the device (24) by the wedging means (27).

0) US5295805A – ROTATING CYLINDRICAL TREATMENT APPARATUS

12) Family number: 2848137 (US5295805A) © PatBase

Title: ROTATING CYLINDRICAL TREATMENT APPARATUS

Priority: JP19900049442 19900302 JP19900049443 19900302 JP19900069682 19900322 JP19900049445 19900302 JP19900053725 19900307 JP19900049444 19900302 US19930084441 19930701 US19900604247 19901029 US19920885018 19920519 JP19900116822 19900508

Family:

Publication number	Publication date	Application number	Application date
DE69018062 D1	19950427	DE19906018062	19901101
DE69018062 T2	19950727	DE19906018062T	19901101
EP0448865 A2	19911002	EP19900311962	19901101
EP0448865 A3	19920115	EP19900311962	19901101
EP0448865 B1	19950322	EP19900311962	19901101
JP2516081 B2	19960710	JP19900053725	19900307
JP3255871 A2	19911114	JP19900049442	19900302
JP3255872 A2	19911114	JP19900049443	19900302
JP3255873 A2	19911114	JP19900049444	19900302
JP3255874 A2	19911114	JP19900049445	19900302
JP3255875 A2	19911114	JP19900053725	19900307
JP3272817 A2	19911204	JP19900069682	19900322
JP4015468 A2	19920120	JP19900116822	19900508
US5295805 A	19940322	US19930084441	19930701

Probable Assignee: MITSUBISHI KASEI ENGINEERING COMPANY

Assignee(s):(std)**:** MITSUBISHI KASEI ENG ; RYOKA TECHNO ENGINEERING AND CON ; RYOKA TECH KK

Assignee(s): RYOKA TECHNO ENGINEERING AND CONSTRUCTION CO ; MITSUBISHI KASEI ENJINIARINGU KK ; RIYOUKA TEKUNO KK ; MITSUBISHI KASEI ENGINEERING CO ; MITSUBISHI KASEI ENGINEERING CO TOKIO TOKYO JP ; MITSUBISHI KASEI ENGINEERING COMPANY

Inventor(s):(std)**:** DEN TOYOICHI ; UDA TOYOKAZU ; NISHIDA MASAHIRO ; AKASAKA KOICHI ; AKAMATSU KOICHI ; UDA TOYOKAZU KAMOUDA DANCHI ; UDA TOYOICHI ; AKAMATSU HIROKAZU

Inventor(s): NISHIDA MASAHIRO YOKKAICHI SHI MIE KEN JP ; AKAMATSU HIROKAZU YOKKAICHI SHI MIE KEN JP ; UDA TOYOKAZU KAMOUDA DANCHI NOGATA SHI FUKUOKA KEN JP ; UDA TOYOKAZU KAMOUDA DANCHI NOGATA SHI FUKUOKA... ; UDA TOYOKAZU KAMOUDA DANCHI NOGATA SHI FUKUOKA KEN

Designated states: DE FR NL

International class (IPC 8–9): A22C17/00 A23L1/31 A23L1/325 A23L1/326 A23P1/00 A23P1/10 B05B1/06 B21B1/00 B21B31/16 B29B13/02 B29B13/04 B29C31/04 B29C33/04 B29C35/02 B29C43/22 B29C43/24 B29C43/44 B29C43/48 B29C43/52 B29C47/88 B29C65/50 F16G1/00 F16G3/10 F16H7/02 F25D13/00 F25D13/06 F25D3/11 F25D31/00 (Advanced/Invention); B29L7/00 (Advanced/Non–invention);
A22C17/00 A23L1/31 A23L1/325 A23L1/326 A23P1/00 A23P1/10 B05B1/02 B21B1/00 B21B31/16 B29B13/00 B29C31/04 B29C33/04 B29C35/02 B29C43/22 B29C43/24 B29C43/44 B29C43/52 B29C47/88 B29C65/50 F16G1/00 F16G3/00 F16H7/02 F25D13/00 F25D3/10 F25D31/00 (Core/Invention)

International class (IPC 1–7): A22C17/00 A23L1/31 A23L1/325 A23L1/326 A23P1/00 A23P1/10 B05B1/06 B21B1/00 B21B31/16 B29B13/02 B29B13/04 B29C31/04 B29C33/04 B29C33/42 B29C35/02 B29C35/16 B29C43/22 B29C43/24 B29C43/48 B29C43/52 B29D29/00 B29L7/00 F16G1/00 F16H7/02 F25D13/00 F25D13/06 F25D3/11 F25D31/00 F28F5/02

CPC: B29C65/5092 B29C2043/486 F16G3/10 B29C31/04 B29C33/044 B29C33/046 B29C43/228 B29C43/44 B29C47/0021 B29C47/003 B29C47/0033 B29C47/8805 B29C47/8845 B29C47/886 B29C65/5042 B29C66/43 B29C65/4815 B29C66/4322

B29C66/4324 B29C66/7212 B29C66/81265 B29K2995/0072 B29C66/72141 B29C66/83433 B29C47/8875 B29C47/0011 B29C47/90 B29C47/906 B29C47/0019 B29C66/8161 B29C66/8221 B29C66/8223 B29C66/1142 B29C66/7352 B29C66/73161

European class: B29C31/04 B29C33/04B B29C33/04C B29C43/22D B29C43/44 B29C47/88B B29C47/88C4B B29C47/88C4D2 B29C65/50B B29C66/1142 B29C66/43 F16G3/10 L29C33/04C L29C43/48B

US class: 165/89 165/90 198/844.2 264/175 425/363 425/373

Classification Explorer

Cited documents: US4999152 A, US4946635 A, US4934928 A, US4859392 A, US4776383 A, US4744854 A, US4734229 A, US4631016 A, US4193959 A, US4034617 A, US4012188 A, US3938927 A, US3930441 A, US3838734 A, US3808700 A, US3752227 A, US3552484 A, US3546054 A, US3470286 A, US3426839 A, US3388430 A, US3325910 A, US3177558 A, US3175026 A, US3089191 A, US2772075 A, US2603475 A, US2603457 A, US2572677 A, US1880110 A, JPS6464909 A2, JPS6442212 A2, JPS6442211 A2, JPS6360726 A2, JPS63222833 A2, JPS62270314 A2, JPS62225882 A2, JPS62225882, JPS60125637 A2, JPS5839415 A2, JPS5662122 A2, JP64064909 A2, JP64042212 A2, JP64042211 A2, JP63222833 A2, JP63222833, JP63060726 A2, JP63060726, JP62296852 A2, JP62270314 A2, JP62270314, JP62225882 A2, JP62181742 A2, JP60125637 A2, JP60125637, JP60096027 B4, JP58039415 A2, JP58039415, JP56062122 A2, JP56062122, JP4424841 Y, JP44024841 Y1, JP44024841 A2, JP1237105 A2, JP1231951 A2, JP1204716 A2, GB4064, GB2200588 A1, GB191304064 A, GB191204064 A, GB1417970 A, GB1102184 A, GB1067585 A, FR2163759 A1, EP0164912 A2, DE2437241 A1, DE2129157 A1, DE2002924 A1, DE1778618 B1, DE1778618 A1,

Forward Citations: WO16096648, WO16096646, WO16096646, WO07065951, US9108349, US8770956, US7867566, US7431978, US7335012, US7332049, US6468461, US6077065, US2013154142, US2011159135, US2009142496, US2006134396, US2006134251, US2006130993, JP5667713, JP2015216864, JP2014526241, JP2008279493, ES2126489, EP2552665, EP2552665, EP1837161, EP0581368, DE10120534, BE1006083,

Abstract:
Source: US5295805A A rotating cylindrical treatment apparatus includes a cylindrical body rotatably supported in the treatment apparatus; a feeding section for supplying a treated material onto an outer circumferential surface of the cylindrical body; a pressure roller for pressing the supplied treated material and for rolling the pressed treated material; a first medium introducing device for introducing a heating or cooling medium into the cylindrical body and for discharging the introduced medium; a second medium introducing device for introducing the medium into the pressure roller and for discharging the introduced medium; and an endless belt for conveying the rolled treated material while causing the rolled treated material to be closely contacted with the outer circumferential surface. The second medium introducing device has an introducing pipe with a spraying nozzle pipe attached thereto, the nozzle pipe projecting into the interior of the pressure roller body and including a spraying port in the projecting end face formed to spray the medium at an obtuse angle around the pressure roller body central axis, and a discharging pipe including a suction port immersed in the medium at the pressure roller body lower portion.

13) Family number: 13240763 (US2005154132A) © PatBase

Title: CROSSLINKABLE RUBBER COMPOSITIONS AND USES THEREOF

Priority:

JP19990070982	19990316	JP19990149948	19990528	JP19990209071	19990723
JP19990209070	19990723	JP19990208943	19990723	JP19990208944	19990723
JP19990209073	19990723	JP19990209074	19990723	JP19990209075	19990723
JP19990209076	19990723	JP19990209077	19990723	JP19990209078	19990723
JP19990209072	19990723	JP19990209079	19990723	JP19997098299	19990316
US20000673608	20000314	KR20007012710	20001113	WO2000JP01547	20000314
US20040002938	20041203	US20000673608	20001019	JP20000079325	20000316
WO2000JP01547	20001113				

Family:

Publication number	Publication date	Application number	Application date
CN100432137 C	20081112	CN200510055083	20000314
CN1197907 C	20050420	CN20008000327	20000314
CN1296510 A	20010523	CN20008000327	20000314
CN1318494 C	20070530	CN200510056321	20000314
CN1660928 A	20050831	CN200510056321	20000314
CN1680474 A	20051012	CN200510055083	20000314
DE60033609 D1	20070412	DE20006033609	20000314
DE60033609 T2	20071122	DE20006033609T	20000314
EP1088855 A1	20010404	EP20000908069	20000314
EP1088855 A4	20041006	EP20000908069	20000314
EP1088855 B1	20070228	EP20000908069	20000314
JP2001031789 A2	20010206	JP19990209071	19990723
JP2001031802 A2	20010206	JP19990209077	19990723
JP2001031807 A2	20010206	JP19990209070	19990723
JP2001031808 A2	20010206	JP19990209072	19990723
JP2001031809 A2	20010206	JP19990209073	19990723
JP2001031810 A2	20010206	JP19990209074	19990723
JP2001031811 A2	20010206	JP19990209075	19990723
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JP2001031814 A2	20010206	JP19990209079	19990723
JP2001031815 A2	20010206	JP19990208943	19990723
JP2001031816 A2	20010206	JP19990208944	19990723
JP2001049057 A2	20010220	JP20000079325	20000316
JP4168219 B2	20081022	JP19990208944	19990723
JP4302243 B2	20090722	JP19990209073	19990723
JP4573928 B2	20101104	JP19990209071	19990723
KR100682809 B1	20070215	KR20007012710	20000314
KR20010025017 A	20010326	KR20007012710	20000314
TH42870 A	20010205	TH20001000817	20000315
US2005154132 AA	20050714	US20040002938	20041203
US6864315 BA	20050308	US20000673608	20001019
US7208548 BB	20070424	US20040002938	20041203
WO0055251 A1	20000921	WO2000JP01547	20000314

Probable Assignee: MITSUI CHEMICALS INC

Assignee(s):(std)**:** ARINO MITSUNAO ; HAKUTA TAKASHI ; HIRABAYASHI SATAO ; HOSOYA MIKIO ; ISHII YUJI ; MITSUI CHEMICALS INC ; KAWASAKI MASAAKI ; KIKUCHI YOSHIHARU ;

NAKAHAMA HIDENARI ; KODA TAKU ; KAMEDA HIROSHI ; NONAKA SHUICHI ; NAKAMURA TSUTOMU ; SHINETSU CHEMICAL CO ; SHINETSU CHEM IND CO ; YOSHIDA TAKEO

Assignee(s): SHIN ETSU CHEMICAL CO ; SHIN ETSU CHEMICAL CO LTD ; SHIN ESU CHEMICAL CO LTD ; SHIN ETSU CHEM CO LTD

Inventor(s):(std)**:** KANDA HIROSHI ; KYONORI ARINO ; MASAAKI KAWASAKI ; MIKIO HOSOYA ; SATAO HIRABAYASHI ; SHIRATA TAKASHI ; SHUICHI NONAKA ; TAKASHI HAKUTA ; TAKEO YOSHIDA ; TAKU KAMITA ; TSUTOMU NAKAMURA ; YOSHIHARU HAKUTA TAKASHI KAWAS ; YOSHIHARU KIKUCHI ; YUJI ISHII ; YOSHIDA TAKEO ; NONAKA SHUICHI ; NAKAMURA TSUTOMU ; NAKAHAMA HIDENARI ; KODA TAKU ; KIKUCHI YOSHIHARU ; KAWASAKI MASAAKI ; KAMEDA HIROSHI ; ISHII YUJI ; HOSOYA MIKIO ; HIRABAYASHI SATAO ; HAKUTA TAKASHI ; ARINO MITSUNAO ; TAKEO ISHII YUJIARINO KYONORIN ; HIDENARI NAKAHAMA ; HIRABAYASHI SADAO ; HIROSHI KAMEDA ; ARINO TAKAMASA

Inventor(s): HAKUTA TAKASHI KAWASAKI MASAAKI KIKUCHI YOSHIHARU ; ARINO KYONORI ; KAMITA TAKU ; ISHII YUJIARINO KYONORINAKAMURA

Agent(s): BURNS DOANE SWECKER AND MATHIS L L P

Designated states: CN DE FR GB KR US

International class (IPC 8–9): B29D23/00 B29D29/00 B29D99/00 B60J5/00 C08F210/00 C08F210/02 C08F210/18 C08F4/622 C08G77/12 C08G81/02 C08J3/24 C08J5/00 C08J5/18 C08J9/00 C08J9/04 C08J9/06 C08K3/00 C08K3/08 C08K3/10 C08K5/00 C08K5/54 C08K5/541 C08K5/5415 C08K5/5419 C08K5/5425 C08L21/00 C08L23/00 C08L23/08 C08L23/16 C08L23/18 C08L45/00 C08L83/00 C08L83/04 C08L83/05 C08L83/07 C08L83/12 C09K3/00 C09K3/10 F04B43/00 F04B53/00 F16C13/00 F16F1/36 F16F15/08 F16G1/00 F16G1/06 F16G1/28 F16G5/00 F16G5/20 F16J15/10 F16J15/20 F16J3/02 F16J3/04 F16L11/04 H01B3/28 (Advanced/Invention); C08F210/02 C08G77/12 C08L21/00 C08L83/04 C09K3/00 (Advanced/Non–invention); B29D23/00 B29D29/00 B29D99/00 C08F210/00 C08F4/00 C08G77/00 C08G81/00 C08J3/24 C08J5/00 C08J5/18 C08J9/00 C08K3/00 C08K5/00 C08L21/00 C08L23/00 C08L45/00 C08L83/00 C09K3/00 C09K3/10 F04B53/00 F16F1/36 F16F15/08 F16G1/00 F16G1/28 F16G5/00 F16J15/10 F16J15/18 F16J3/00 F16L11/04 H01B3/18 (Core/Invention); C08F210/00 C08G77/00 C09K3/00 (Core/Non–invention)

International class (IPC 1–7): B29D23/00 B29D29/00 B29D31/00 B29K83/00 B29L23/00 B29L29/00 B29L31/26 B29L31/30 B29L31/32 C08F210/02 C08F210/18 C08F4/06 C08F4/622 C08G77/12 C08G81/02 C08J3/24 C08J5/00 C08J5/18 C08J9/00 C08J9/04 C08J9/06 C08K3/00 C08K3/08 C08K3/10 C08K5/00 C08K5/541 C08K5/5415 C08K5/5419 C08K5/5425 C08L21/00 C08L23/00 C08L23/08 C08L23/16 C08L23/18 C08L45/00 C08L47/00 C08L83/00 C08L83/04 C08L83/05 C08L83/07 C08L83/12 C09K3/00 C09K3/10 F04B53/00 F16F1/36 F16F15/08 F16G1/00 F16G1/06 F16G1/28 F16G5/00 F16G5/20 F16J15/10 F16J15/20 F16J3/02 F16J3/04 F16L11/04 H01B3/28

CPC: C08K5/0025 C08L23/16 C08L83/04 C08L2312/08 C08L2314/02

European class: C08K5/00P2 C08L23/16 M08L23/16 M08L312/08 M08L314/02 M08L83/04

US class: 525/105 525/105P 525/191 525/191S 525/388 525/388S 526/282 526/282S 526/90 526/90S

Classification Explorer

Cited documents: US6111021 A, US6013729 A, US5807946 A, US5405908 A, US3814780 A, US3775452 A, US3516946 A, US3159662 A, US3159601 A, US2970150 A, US2823218 A, KR1999013885, KR19990013885 A, JP9137002 A2, JP8283492 A2, JP11130914 A2, JP10212389 A2, JP10182879 A2, GB1118327 A, EP0896982 A1, EP0892013 A1, EP0837098 A1, EP0776937 A2, CN1174857 A,

Forward Citations: WO17170827, WO13147104, WO12133922, WO08026628, WO07004481, WO05073298, WO05066263, WO04056174, WO04031609, WO03102062, WO03057777, WO0198407, US9776794, US9764196, US9724568, US9517885, US9493061, US9416242, US9309050, US9242800, US9211445, US9038949, US9008884, US8969481, US8954188, US8952086, US8865505, US8800926, US8530550, US8402921, US8354463, US8344067, US8309639, US8258218, US8247494, US8188191, US8177665, US8148467, US8052183, US8039538, US8034863, US8034862, US8034861, US8030387, US8030386, US8030385, US8030384, US8030383, US8028656, US7997439, US7991341, US7989700, US7966970, US7951871, US7913385, US7872075, US7741394, US7544730, US7517933, US7507777, US7452942, US7135533, US7015292, US6806336, US2016199701, US2016184655, US2015065268, US2014200297, US2014150918, US2012321875, US2011301278, US2011239410, US2011136927, US2011124814, US2011071242, US2011040037,

US2010269947, US2010235000, US2010189479, US2010116541, US2010022329, US2010004393, US2009253866, US2009234073, US2008308677, US2008274835, US2008274834, US2008274833, US2008274832, US2008274831, US2008274830, US2008274829, US2008274828, US2008274824, US2008272335, US2008268982, US2008188621, US2008114126, US2008047392, US2007213442, US2007213441, US2007213440, US2007213144, US2007137117, US2007083008, US2007021564, US2006276584, US2006172823, US2006009577, US2005228128, US2005020740, KR101185174, JP6076162, JP6069053, JP6069052, JP5892074, JP5799764, JP5765055, JP5539257, JP4932712, JP4932712, JP4916443, JP4803617, JP2016172848, JP2014181297, JP2014181296, JP2014181295, JP2014136729, JP2014065248, JP2013213102, JP2013147104, JP2013104017, JP2012224806, JP2012215248, JP2012031342, JP2012012574, JP2009520100, JP2009275085, JP2008511712, JP2008111137, JP2008111063, JP2008056723, JP2007505181, JP2007297434, JP2007296669, JP2007238783, JP2007177082, JP2007131733, JP2007040363, JP2006290917, JP2006290916, JP2006290915, JP2006290914, JP2006290913, JP2006131840, JP2005298593, JP2003012872, JP2002293975, JP2002275318, JP2002146133, JP2001348464, EP2837655, EP2837655, EP2392617, EP2261284, EP2261284, EP2093240, EP1792937, EP1757658, EP1669402, EP1666528, EP1666528, EP1571902, EP1519967, CN105551774, CN105037963, CN104379648, CN104284926, CN104136684, CN104136684, CN103534511, CN103180144, CN103180144, CN102804403, CN102191730, CN102191730,

Abstract:
Source: US2005154132A The crosslinkable rubber composition of the invention is crosslinkable by hot air, and a hot−air crosslinked rubber sheet thereof has no scratch on the surface in a hardness test using a pencil of HB and has a compression set of not more than 70 percent after a heat treatment at 150 degrees centigrade for 22 hours. The rubber composition comprises an ethylene/alpha−olefin/non−conjugated polyene random copolymer rubber comprising a specific vinyl end group−containing norbornene compound, a SiH group−containing compound having at least two SiH groups in one molecule, and if necessary, an addition reaction catalyst comprising a platinum group element and a reaction inhibitor. The automobile weatherstrip, hose, rubber vibration insulator, belt, sealing material, expanded product, covered electric wire, electric wire joint, electric insulating part and household rubber product according to the invention comprise the above−mentioned rubber composition. The rubber composition has a high crosslinking rate and excellent productivity to produce crosslinked rubber molded products, is capable of undergoing hot−air crosslinking such as HAV or UHF and is capable of providing crosslinked rubber molded products having excellent compression set resistance, strength properties, heat resistance, weathering resistance and abrasion resistance.

0) US2012216522A – ENERGY HARVESTING SYSTEM

14) Family number: 51789548 (US2012216522A) © PatBase

Title: ENERGY HARVESTING SYSTEM

Priority: US20110340886 20111230 US20110340892 20111230 US20110340955 20111230 US20110340897 20111230 US20110340942 20111230 US20110340964 20111230 US20110447317P 20110228 US20110447315P 20110228 US20110447328P 20110228 US20110447321P 20110228 US20110447307P 20110228 US20110447324P 20110228 US20110447306P 20110228 US20120447324P 20120228

Family:

Publication number	Publication date	Application number	Application date
CN102650274 A	20120829	CN201210048079	20120228
CN102650274 B	20150715	CN201210048079	20120228
CN102650275 A	20120829	CN201210048087	20120228
CN102654113 A	20120905	CN201210048861	20120228
CN102654114 A	20120905	CN201210048863	20120228
CN102654114 B	20150506	CN201210048863	20120228
CN102654115 A	20120905	CN201210048935	20120228
CN102654115 B	20141105	CN201210048935	20120228
DE102012202394 A1	20120830	DE201210202394	20120216
DE102012202396 A1	20120830	DE201210202396	20120216
DE102012202397 A1	20120830	DE201210202397	20120216
DE102012202398 A1	20120830	DE201210202398	20120216
DE102012202399 A1	20120830	DE201210202399	20120216
DE102012202401 A1	20121018	DE201210202401	20120216
US2012216522 AA	20120830	US20110340886	20111230
US2012216523 AA	20120830	US20110340892	20111230
US2012216524 AA	20120830	US20110340955	20111230
US2012216525 AA	20120830	US20110340897	20111230
US2012216526 AA	20120830	US20110340942	20111230
US2012216527 AA	20120830	US20110340964	20111230
US8607562 BB	20131217	US20110340955	20111230
US8800283 BB	20140812	US20110340897	20111230
US8844281 BB	20140930	US20110340964	20111230
US9003789 BB	20150414	US20110340886	20111230

Probable Assignee: UNIV MICHIGAN

Assignee(s):(std): HERRERA GUILLERMO A ; JOHNSON NANCY L ; CHURCHILL CHRISTOPHER BURTON ; UNIV MICHIGAN ; SAROSI PETER MAXWELL ; KEEFE ANDERW C ; MANKAME NILESH D ; SHAW JOHN ANDREW ; KEEFE ANDREW C ; SKURKIS RICHARD J ; MC KNIGHT GEOFFREY P ; KEFFE ANDREW C ; UNIV MICHIGAN TECHNOLOGY MAN OFFICE WOLVERINE TOWER ; ALEXANDER PAUL W ; BROWN JEFFREY W ; BROWN WAYNE ; BROWNE ALAN L ; CHURCHILL CHIRSTOPHER BURTON ; UNIV MICHIGAN TECHNOLOGY MAN OFFICE WOLVERINE TOWER ROOM 2071 ; GM GLOBAL TECH OPERATIONS INC ; DYNALLOY INC ; MCKNIGHT GEOFFREY P ; YATES JAMES RYAN

Assignee(s): UNIVERSITY OF MICHIGAN ; OF MICHIGAN UNIV ; WILMINGTON TRUST CO ; DYNALLOY ; THE REGENTS OF THE UNIVERSITY OF MICHIGAN TECHNOLOGY MANAGEMENT OFFICE WOLVERINE TOWER ROOM 2071 ; THE UNIV OF MICHIGAN TECHNOLOGY MANAGEMENT OFFICE WOLVERINE TOWER ; THE UNIV OF MICHIGAN TECHNOLOGY MANAGEMENT OFFICE WOLVERINE TOWER ROOM 2071 ; UNIV OF MICHIGAN ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ; THE REGENTS OF THE UNIVERSITY OF MICHIGAN TECHNOLOGY MANAGEMENT OFFICE WOLVERINE TOWER ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GESETZEN DES STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GES D STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS

INC ; THE UNIV OF MICHIGAN ; THE REGENTS OF THE UNIVERSITY OF MICHIGAN

Inventor(s):(std)**:** A C KEEFE ; A L BROWN ; ALEXANDER P W ; ALEXANDER PAUL W ; ANDREW SHAW JOHN ; BROWN A L ; BROWN J W ; BROWN JEFFREY W ; BROWN WAYNE ; BROWNE ALAN L ; BURTON CHURCHILL CHRISTOPHER ; C B CHURCHILL ; CHURCHILL C B ; CHURCHILL CHIRSTOPHER BURTON ; CHURCHILL CHRISTOPHER BURTON ; G A HERERA ; G P MCKNIGHT ; HERERA G A ; HERRERA GUILLERMO A ; J A SHAW ; J R YEATS ; J W BROWN ; JOHNSON N L ; JOHNSON NANCY L ; KEEFE A C ; KEEFE ANDERW C ; KEEFE ANDREW C ; KEFFE ANDREW C ; MANKAME NILESH D ; MAXWELL SAROSI PETER ; MC KNIGHT GEOFFREY P ; MCKNIGHT G P ; MCKNIGHT GEOFFREY P ; N L JOHNSON ; P W ALEXANDER ; SAROSI PETER MAXWELL ; SHAW J A ; SHAW JOHN ANDREW ; SKURKIS RICHARD J ; WAYNE BROWN ; YATES JAMES RYAN ; YEATS J R

Agent(s): QUINN LAW GROUP PLLC

International class (IPC 8–9)**:** C22C14/00 C22C16/00 C22C27/00 C22F1/00 F01B29/10 F02B67/04 F02G1/04 F03G7/06 F16G1/00 F16G1/18 F16G1/20 F16G5/00 F16G9/00 (Advanced/Invention)

CPC: Y10S420/902 F03G7/06 F03G7/065

European class: F03G7/06

US class: 148/402 148/421 148/563 420/902 474/237 474/239 474/272 60/527 60/527P 60/528 60/528P 60/529 60/529P 60/616 60/618 60/620

Classification Explorer

Cited documents: US8339842 BB, US8172458 BB, US7967755 BB, US7852628 BB, US7628737 BB, US7527425 BB, US7199508 BB, US6880336 BB, US6226992 BA, US6024347 A, US5842312 A, US5727391 A, US5419788 A, US5186420 A, US4965545 A, US4799453 A, US4785627 A, US4472939 A, US4305250 A, US4275561 A, US4246754 A, US4150544 A, US4075846 A, US4055955 A, US3321908 A, US3316415 A, US3303642 A, US2255495 A, US2012183718 AA, US2012041438 AA, US2011165981 AA, US2011083325 AA, US2010186783 AA, US2009151924 AA, US2009026278 AA, US2008173017 AA, US2008153638 AA, US2008034750 AA, US2006154763 AA, US2006148296 AA, US2006116713 AA, US2005276743 AA, US2005215366 AA, US2005039452 AA, US2003206497 AA, US2001025756 AA, JP56077575 A2, JP2006207441 A2, GB2321280 A1, GB2155113 A1, GB2072756 A1, CN2031844 U, CN1314548 A, CN1223775 C, CN1103134 A, CN101910549 A, CN101782053 A,

Forward Citations: WO17001562, WO16092120, WO14146065, WO14113469, US9745967, US9599099, US9574553, US8878047, US8631652, US2015000264, US2014223905, US2014223900, US2014083095, US2013247950, US2011120116, EP3199807, CN106148765, CN105673104, CN103670981, CN103670981,

Abstract:
Source: US2012216522A An energy harvesting system for converting thermal energy to mechanical energy includes a heat engine that operates using a shape memory alloy active material. The shape memory alloy member may be in thermal communication with a hot region at a first temperature and a cold region at a second temperature lower than the first temperature. The shape memory alloy material may be configured to selectively change crystallographic phase between martensite to austenite and thereby one of contract and expand in response to the first and second temperatures. A thermal conduction element may be in direct contact with the SMA material, where the thermal conduction element is configured to receive thermal energy from the hot region and to transfer a portion of the received thermal energy to the SMA material through conduction.

0) US2013277183A – CONVEYING CHAIN FOR A CONVEYING DEVICE

15) Family number: 51416201 (US2013277183A) © PatBase

Title: CONVEYING CHAIN FOR A CONVEYING DEVICE

Priority: CH20100002180 20101227 EP20110801543 20111219 WO2011CH00302 20111219

Family:

Publication number	Publication date	Application number	Application date
AU2011350070 AA	20120705	AU20110350070	20111219
AU2011350070 AB	20130801	AU20110350070	20111219
AU2011350070 BB	20160331	AU20110350070	20111219
CA2819580 AA	20130531	CA20112819580	20111219
CH704274 A1	20120629	CH20100002180	20101227
CN103328353 A	20130925	CN201180063147	20111219
CN103328353 B	20160810	CN201180063147	20111219
DE502011009945 D1	20160721	DE201150009945T	20111219
EP2658797 A2	20131106	EP20110801543	20111219
EP2658797 B1	20160608	EP20110801543	20111219
ES2589454 T3	20161114	ES20110801543T	20111219
IN01953KN2013 A	20131101	IN2013KN01953	20130617
JP2014501212 T2	20140120	JP20130546538T	20111219
JP6170437 B2	20170726	JP20130546538T	20111219
KR20130139333 A	20131220	KR20137019630	20111219
MY160291 A	20170228	MY20130002074	20111219
NZ611174 A	20140926	NZ20110611174	20111219
TW201302577 A	20130116	TW20110148360	20111223
TWI579218 B	20170421	TW20110148360	20111223
US2013277183 AA	20131024	US20110997340	20111219
US9033140 BB	20150519	US20110997340	20111219
WO12088615 A2	20120705	WO2011CH00302	20111219
WO12088615 A3	20120823	WO2011CH00302	20111219
ZA201303761 A	20140730	ZA20130003761	20111219

Probable Assignee: FERAG AG

Assignee(s):(std)**:** FERAG AG ; STUDER BEAT

Assignee(s): FERAG AGZURICHSTRASSE 74CH–8340HINWILCH

Inventor(s):(std)**:** BEAT STUDER ; STUDER BEAT

Inventor(s): STUDER BEATCH

Agent(s): GRIFFITH HACK; FREEDMAN AND ASSOCIATES; SHAPIRO COHEN LLP; PATENTANWAELTE U RECHTSANWALT WEISS ARAT AND PARTNER MBB; FREI PATENT ATTORNEYS; DE ELZABURU ALBERTO; FUKAMI PATENT OFFICE PC; RANKIN HILL AND CLARK LLP; FREI PATENTANWALTSBUERO AG

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 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 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

International class (IPC 8–9): B65G B65G17/06 B65G17/26 B65G17/38 B65G21/16 F16G F16G13/07 F16G13/10 F16G13/22 F16G13/24 (Advanced/Invention);
B65G17/42 B65G21/16 (Advanced/Non–invention);
B65G F16G (Subclass/Invention)

CPC: B65G17/26 B65G17/385 F16G13/07 F16G13/10

European class: B65G17/38B F16G13/07 F16G13/10

US class: 198/850

Classification Explorer

Cited documents: WO9813281 A1, WO05087627 A1, WO05087267 A1, US4353459 A, US4220052 A, US3880276 A, US3880276, US3231069 A, US2010155200 AA, US2010025200 AA, US2008132369 AA, US2007272523 AA, US2002148708 AA, JP8502572 T2, JP8502572, JP62004112 A2, JP62004112, JP61500117 T2, JP61500117, JP56093548 U1, JP56093548 U, JP54142787 A2, JP54142787, JP54051185 A2, JP54051185, JP30001963 B4, JP30001963 B1, FR2846642 A1, FR2564810 A1, FR2319818 A1, FR2252268 A1, FR2232497 A1, EP2210831 A1, EP1932781 A1, EP1832532 A2, EP1081078 A2, EP0638501 A1, EP0241631 A1, DE2629528 A1,

DE102008021233 A1

DE102007057341 A1

CN2322946 Y, CN2136227 Y, CN101229874 A, CH592562,

Forward Citations: US9511941, US9051125, US2017151099, US2016046445, US2014158502, CN105465301, CN104088965, CN104088965, CH711791,

Abstract:
Source: US2013277183A A chain link of a conveying chain, containing a base body with a first end region which comprises a first coupling section for the articulated connection to a coupling section of a first adjacent chain link, and with a second end region which comprises a second coupling section for the articulated connection to a coupling section of a second adjacent chain link. The body comprises an intermediate region lying between the two end regions and includes a body section with bending−elastic characteristics, which is designed such that the first end region is elastically bendable relative to the second end region out of the longitudinal direction of the base body.

0) US2003062460A – SUSPENDING EQUIPMENT

16) Family number: 15997019 (US2003062460A) © PatBase

Title: SUSPENDING EQUIPMENT

Priority: CA20022398883 20020820 GB20010020523 20010823 GB20010026179 20011101

Family:

Publication number	Publication date	Application number	Application date
AU2002300611 AA	20030612	AU20020300611	20020819
AU2002300611 BB	20070125	AU20020300611	20020819
BE1015078 AF	20040907	BE20020000492	20020822
BRPI0203354 A	20030624	BR2002PI03354	20020820
CA2398883 AA	20030223	CA20022398883	20020820
DE10239272 A1	20030306	DE20021039272	20020822
ES2234363 AA	20050616	ES20020001973	20020823
ES2234363 BA	20060401	ES20020001973	20020823
FR2828925 A1	20030228	FR20020010520	20020823
FR2828925 B1	20050429	FR20020010520	20020823
GB200120523 A0	20011017	GB20010020523	20010823
GB200126179 A0	20020102	GB20010026179	20011101
GB200130428 A0	20020206	GB20010030428	20011220
GB2378979 A1	20030226	GB20010030428	20011220
GB2378979 B2	20030730	GB20010030428	20011220
ITMI20021834 A1	20030224	IT2002MI01834	20020820
LU90947 A1	20031217	LU20020090947	20020821
NL1021321 A1	20030225	NL20021021321D	20020822
NL1021321 C2	20030520	NL20021021321	20020822
NZ520952 A	20030131	NZ20020520952	20020822
PT102832 A	20030228	PT20020102832	20020821
US2003062460 AA	20030403	US20020227103	20020823
US7063299 BB	20060620	US20020227103	20020823
ZA200206738 A	20030411	ZA20020006738	20020822

Probable Assignee: GRIPPLE LTD

Assignee(s):(std)**:** BOALER DEREK ; FACEY HUGH DAVID ; GRIPPLE LTD ; GRIPPLE LTD OLD WEST GUN W ; GRIPPLE LTD INC ; GRIPPLE OLD WEST GUN WORKS LTD ; GRIPPLE LIMITED INC ; GRIPPLE LTD THE OLD WEST GUN W ; MAKIN JOHN

Assignee(s): GRIPPLE LIMITED THE OLD WEST GUN WORKS ; GRIPPLE LTD SHEFFIELD ; GRIPPLE INC LTD ; GRIPPLE LIMITED

Inventor(s):(std)**:** DEREK VOALER ; HUGH DAVID FACEY ; VOALER DEREK ; MAKIN JOHN ; JOHN MAKIN ; FACEY HUGH DAVID ; DEREK BOALER ; DAVID FACEY HUGH ; BOALER DEREK

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; ROBIC; TREXLER BUSHNELL GIANGIORGI BLACKSTONE AND MARR LTD

International class (IPC 8–9): B66C1/12 E04B9/18 F16G11/04 F16G11/10 F16G11/14 F16L3/14 H02G3/30 (Advanced/Invention); F16B2/14 F21V21/008 F21V21/16 (Advanced/Non–invention); B66C1/12 E04B9/18 F16G11/00 F16L3/14 H02G3/30 (Core/Invention); F16B2/02 F21V21/008 F21V21/14 (Core/Non–invention); B66F F16G F16M (Subclass/Invention)

International class (IPC 1–7): A47H1/10 B66C1/12 B66F F16B2/18 F16B39/10 F16G F16G11/00 F16G11/02 F16G11/04 F16G11/10 F16G11/14 F16M F16M13/00 F21V21/00 F21V21/16

CPC: F16G11/106 F16G11/14 F16B2/14 F21V21/008 F21V21/16 F16G11/10 H02G3/381

European class: F16G11/10 F16G11/14 R16B2/14 R21V21/008 R21V21/16

US class: 248/317 248/32 248/320 248/328

Classification Explorer

Cited documents: US6058574 A, US6053457 A, US6003210 A, US5738466 A, US5582447 A, US5513923 A, US4709922 A, US4556184 A, US3077809 A, US2005334 A, US1271383 A, JP9151996 A2, JP303612, JP2000303612 A2, JP11201237 A2, GB2298436 A1, EP0926393 A1, DE7908513 U,

Forward Citations: WO12095075, WO12095075, WO11004152, WO07031730, USD777150, USD772847, USD734140, USD639151, US9599191, US8112847, US7314202, US2015132050, US2012160151, US2010279540, US2010108845, US2010078540, US2009224138, US2008264884, US2006186300,

Abstract:
Source: US2003062460A Means for suspending equipment (32) from an overhead structural member (21) comprises a suspension strand (11), e.g. of wire or wire rope, provided at one end with a screwthreaded portion (12), together with a locking device (13) having twin bores (14A, 14B) each preferably associated with wedging means (15A, 15B) preventing withdrawal of the free end (16) of the strand (11) in the opposite direction to insertion. The screwthreaded portion (12) may be screwed into the overhead structural member (21), or into the equipment (32), the free end (16) of the strand (11) passed through one bore (14A) of the locking device, through an eye (31) on the equipment (32) or round the equipment, or through an eye (38) on the overhead structural member (21) or round the overhead structural member, then back through the other bore (14B) of the locking device (13) to be secured therein by the wedging means (15B). Other methods are also described and claimed, as well as equipment suspension kits.

0) US4078298A – CABLE INSTALLING AND ADJUSTING METHOD

17) Family number: 1554043 (US4078298A) © PatBase

Title: CABLE INSTALLING AND ADJUSTING METHOD

Priority: CA19780312655 19781004 US19770763188 19770127 US19800115658 19800128 US19790071222 19790830 US19770861604 19771219

Family:

Publication number	Publication date	Application number	Application date
AU197832635 A1	19790802	AU19780032635	19780123
AU516943 B2	19810702	AU19780032635	19780123
BE863425 A	19780516	BE19780184719	19780127
BE863425 A1	19780516	BE19780184719	19780127
CA1055364 A1	19790515	CA19770293090	19771214
CA1125501 A1	19820615	CA19780312655	19781004
CH629285 A	19820415	CH19780000574	19780119
DE2801928 A1	19780803	DE19782801928	19780118
DK38478 A	19780728	DK19780000384	19780126
FR2378988 A1	19780825	FR19780001694	19780120
GB1596834 A	19810903	GB19780003427	19780127
IT7847775 A0	19780125	IT19780047775	19780125
JP53093249 A2	19780816	JP19780006081	19780123
NL7800924 A	19780731	NL19780000924	19780125
NO780007 A	19780728	NO19780000007	19780102
SE422831 B	19820329	SE19780001038	19780127
SE422831 C	19820708	SE19780001038	19780127
SE7801038 A	19780728	SE19780001038D	19780127
US4078298 A	19780314	US19770763188	19770127
US4229138 A	19801021	US19770861604	19771219
US4316307 A	19820223	US19790071222	19790830
US4354799 A	19821019	US19800115658	19800128
ZA7800301 A	19781227	ZA19780000301	19780117

Probable Assignee: HURST GEORGE

Assignee(s):(std)**:** HURST G ; HURST G P ; HURST GEORGE P ; HURST GEORGE PATERSON ; PATERSON HURST GEORGE ; HURST GEORGE ; GEORGE PATERSON HURST

Assignee(s): GEORGE PATERSON HURST TE JACKSON CALIFORNIE VER ST V AM ; HURST GP

Inventor(s):(std)**:** HURST G ; HURST G P ; HURST GEORGE P ; HURST GEORGE PATERSON ; JIYOOJI PATAASON HAASUTO ; ORGE PATERSON HURST ; PATERSON HURST GEORGE

Inventor(s): SOK ; G P HURST ; GEORGE PATERSON HURST ; GP HURST

Agent(s): SF; FETHERSTONHAUGH AND CO

International class (IPC 8–9): B23P19/00 F16G11/12 F27B7/22 (Advanced/Invention); F16G11/00 (Core/Invention)

International class (IPC 1–7): B01F7/00 B01F9/00 B23P19/00 B25J13/00 B65G47/74 F16C11/00 F16G11/00 F16G11/02 F16G11/06 F16G11/12 F16G11/14 F16G3/00 F16L F16M F26B17/30 F27B7/22 F27B7/26 H02G

CPC: Y10T29/49874 Y10T29/49959 Y10T403/5781 Y10T24/3942 Y10T403/4381 Y10T24/16 Y10T24/168 Y10T403/32622 Y10T403/43 F16G11/12

European class: F16G11/12

US class: 14/22 24/134KA 24/31F 24/31R 29/452 29/525.08 29/526R 366/233 403/121 403/206 403/215 403/312 414/756 414/787 432/103 474/101 474/238 474/89

Classification Explorer

Cited documents: US706393 A, US689610 A, US4114765 A, US3853018 A, US3769685 A, US3669433 A, US3401924 A, US3097834 A, US2496695 A, US2346613 A, US2165754 A, US1684271 A, US1581075 A, US1218686 A, US1099390 A, SU439366 U, SE165608 C1, SE165608 C, DE2235475 A1, DE1005339 B, AT173468 B,

Forward Citations: WO12001258, US9249577, US9134069, US8793843, US7070319, US6193621, US5002146, US4754658, US2011232401, US2008225631, US2007133348, US2004095845, FR2961875, FR2605124, DE10350268,

Abstract:
Source: US4078298A Apparatus and method for installing or replacing each of a plurality of cables, each of which is in the form of a loop extending over one of a plurality of sheaves and below a generally horizontally disposed kiln or drum for suspending said kiln or drum from said sheaves for rotation, while the other sheaves and cables support said kiln or drum. Such apparatus includes a connector releasably connecting terminal end portions of said cable for forming said loop, and elements cooperating with such connector and cable for effecting the releasable connection between said portions of each cable, and the seating and tensioning of each newly installed cable to take a share of the load equal to that of each of the other cables while said load is carried by the other cables.

0) US4214488A – POSITIVE DRIVE SYSTEM

18) Family number: 30161239 (US4214488A) © PatBase

Title: Positive drive system

Priority: CA19800353760 19800611 US19770845929 19771027 US19790097132 19791126 US19810334831 19811228 US19790097132 19791129

Family:

Publication number	Publication date	Application number	Application date
CA1131944 A1	19820921	CA19800353760	19800611
GB2064061 A1	19810610	GB19800020319	19800620
GB2064061 B2	19830720	GB19800020319	19800620
JP56086255 A2	19810713	JP19800162726	19801120
US4214488 A	19800729	US19770845929	19771027
US4315751 A	19820216	US19790097132	19791126
US4424619 A	19840110	US19810334831	19811228

Probable Assignee: DYNALOC CORP

Assignee(s):(std)**:** CONRAD R A ; CONRAD RENE A ; DYNALOC CORP ; REN EI KONRATSUDO

Inventor(s):(std)**:** CONRAD RENE A ; REN EI KONRATSUDO

Agent(s): SMART AND BIGGAR

International class (IPC 8–9)**:** B29D29/00 F16G1/28 F16G9/00 F16H7/00 F16H7/02 (Advanced/Invention); B29D29/00 F16G1/28 (Core/Invention)

International class (IPC 1–7)**:** B22D11/126 F16G1/28 F16G9/00 F16H7/00 F16H7/02

CPC: B29D29/00 Y10T74/20444 F16H7/023 F16G1/28 F16G9/00 Y10T29/49986

European class: B29D29/00 F16G1/28 F16G9/00 F16H7/02B

US class: 29/527.4 474/148 474/154 474/203 474/211 59/2 74/502.3

Classification Explorer

Cited documents: US624177 A, US538222 A, US488640 A, US4315751, US422955 A, US4214488, US3985037 A, US3748917 A, US3517565 A, US3451282 A, US332672, US3237470 A, US3187596 A, US3165825 A, US2935881 A, US2874583 A, US2856752 A, US2825231 A, US2674307 A, US2000952 A, US1327925 A, GB190006672 A, GB189924361 A, GB189516221 A, FR1270028 A, FR1201852 A,

Forward Citations: WO9958879, WO9601959, WO8910500, WO14026820, WO08151609, WO03007696, US8794387, US8235000, US8225586, US7922614, US7632018, US7427247, US7331269, US7300234, US7294078, US6849016, US6622742, US6045272, US5957497, US5413537, US5411445, US5230665, US5121648, US4767386, US4481005, US4424619, US4353346, US2013237355, US2012225189, US2011226562, US2011138755, US2010137087, US2009277384, US2008219604, US2008032839, US2007160438, US2005069703, US2004194223, US2004134122, US2004113531, US2004019950, US2003220165, US2003069099, NL1022438, NL1018603, NL1002094, ITMI20131938, FR2991419, FR2789465, EP1438891, EP1078179, EP1026422, EP0453975, EP0405667, DE102006010814, DE102005038356, AU672916,

Abstract:
Source: US4214488A A positive drive system including a drive cable consisting of a flexible line means having a plurality of regularly spaced nodules rigidly attached along its length, and a positive drive sheave having a curved surface configuration receptive to the drive cable's nodules for providing a positive, nonslip rotary drive engagement between the drive cable and the sheave.

0) WO17120658A1 – LENGTH ADJUSTABLE WIRE ROPE RIGGING DEVICE AND ...

19) Family number: 66396883 (WO17120658A1) © PatBase

Title: LENGTH ADJUSTABLE WIRE ROPE RIGGING DEVICE AND LIFTING SYSTEM EMPLOYING THE SAME

Priority: CA20162917368 20160112

Family:

Publication number	Publication date	Application number	Application date
CA2917368 AA	20170712	CA20162917368	20160112
WO17120658 A1	20170720	WO2017CA00003	20170110

Probable Assignee: HILLGARDNER BRAD

Assignee(s):(std)**:** HILLGARDNER BRAD

Inventor(s):(std)**:** HILLGARDNER BRAD

Agent(s): KERR AND NADEAU

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 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

International class (IPC 8–9): B66C1/00 B66C1/12 B66C13/04 B66D1/00 F16G11/12 (Advanced/Invention)

CPC: B66C1/00 B66C1/12 B66C13/04 F16G11/12

Classification Explorer

Cited documents: WO8703571 A1, US7900670 BB, US4481695 A, US1928213 A, CA2798397 AA,

Abstract:
A wire rope device having adjustable length between a first end and a second end thereof is provided. The wire rope device comprises a first wire rope extending from the first end and a second wire rope extending from the second end. A length adjusting structure is disposed between the first end and the second end. The length adjusting structure has the first wire rope and the second wire rope connected thereto. A support structure is disposed between the first end and the second end. The support structure has the length adjusting structure rotatable movable mounted thereto. A first guiding structure and a second guiding structure are disposed in the support structure for guiding the first wire rope and the second wire rope, respectively, such that when in operation a portion of the first wire rope extending from the first guiding element and a portion of the second wire rope extending from the second guiding element are disposed substantially along a same straight line. A drive mechanism is mounted to the support structure and connected to the length adjusting structure for adjusting the length of the wire rope device by rotatably moving the length adjusting structure.

0) US2015329075A – QUICK–RELEASE FASTENER FOR ONE END OF A SEAT BE...

20) Family number: 56716302 (US2015329075A) © PatBase

Title: QUICK–RELEASE FASTENER FOR ONE END OF A SEAT BELT FASTENED TO A VEHICLE IN A MOTOR VEHICLE

Priority: DE201210223453 20121217 WO2013EP76374 20131212

Family:

Publication number	Publication date	Application number	Application date
CN104884312 A	20150902	CN201380062931	20131212
DE102012223453 A1	20140618	DE201210223453	20121217
US2015329075 AA	20151119	US20130652597	20131212
US9517748 BB	20161213	US20130652597	20131212
WO14095562 A1	20140626	WO2013EP76374	20131212

Probable Assignee: AUTOLIV DEV

Assignee(s):(std)**:** AUTOLIV DEV

Assignee(s): AUTOLIV DEVELOPMENT AB

Inventor(s):(std)**:** EHLERS JENS ; KOESTER HELGE ; SOEHNCHEN ARNDT ; KOSTER HELGE ; SOHNCHEN ARNDT

Agent(s): BRINKS GILSON AND LIONE; KOCH HENNING

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 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

International class (IPC 8–9): A44B11/25 B60R22/18 B60R22/22 B60R22/24 B60R22/26 B60R22/30 F16G11/02 (Advanced/Invention); B60R22/195 (Advanced/Non–invention)

CPC: A44B11/2534 A44B11/2576 B60R2022/1806 Y10T24/4764 B60R22/18 B60R22/1952 F16G11/02 Y10T24/4501

US class: 24/573.11

Classification Explorer

Cited documents: US5724716 A, US4731912 A, US4674303 A, US4575916 A, US4520538 A, US4471513 A, US4402114 A, US4373830 A, US4228567 A, US3555632 A, US2003071453 AA, DE10245818 A1,

DE102010025714 A1

Abstract:
Source: US2015329075A A quick–release fastener for a vehicle seat belt (21) with a fitting part (1), and a fastening part (7). The fitting part (1) has a first opening (2), and a second opening (3), in which the fastening part (7) can be locked to a locking head (6). The fastening part (7) can be inserted into the opening (3) in which a spring element (14) is arranged in an assembly position (I), and the spring element (14) can be moved into the locked position (II). A housing (100) is adapted to the shape of the fitting part (1) with the locking head (6) retained therein. The mounting (112) is shaped n such that the fitting part (I) with the locking head (6) can be completely received in the mounting (112) only when the locking head (6) is in the locked position (II).

0) US2010077810A – MULTIFUNCTIONAL LOCKING DEVICE AND SERVOMOTOR W...

21) Family number: 42078172 (US2010077810A) © PatBase

Title: MULTIFUNCTIONAL LOCKING DEVICE AND SERVOMOTOR WITH ACTUATOR WHICH CAN BE UP WOUND UP AROUND AN INTERCHANGEABLE REEL

Priority: IT2007BO00066 20070201 WO2008IT00060 20080131

Family:

Publication number	Publication date	Application number	Application date
EP2153001 A2	20100217	EP20080720228	20080131
ITBO20070066 A1	20080802	IT2007BO00066	20070201
US2010077810 AA	20100401	US20080525311	20080131
US8910499 BB	20141216	US20080525311	20080131
WO08093382 A2	20080807	WO2008IT00060	20080131
WO08093382 A3	20080918	WO2008IT00060	20080131

Probable Assignee: DE FRANCESCHI DANIELE

Assignee(s):(std)**:** DE FRANCESCHI DANIELE

Inventor(s):(std)**:** DE FRANCESCHI DANIELE

Agent(s): JEROME D JACKSON JACKSON PATENT LAW OFFICE; JACKSON PATENT LAW OFFICE

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

International class (IPC 8–9)**:** B60R22/03 E05B47/00 E05B47/08 E05B49/02 E05F11/00 E05F15/12 F16G13/18 F16H1/00 F16H19/00 G01G15/00 G01G17/00 G01G23/37 (Advanced/Invention); B60R22/03 (Advanced/Non–invention); B60R22/02 E05B47/00 E05B49/02 E05F15/12 F16G13/00 F16H19/00 (Core/Invention); B60R22/02 (Core/Non–invention)

CPC: G01G17/00 G01G15/00 G01G23/3735 G01G23/3742 Y10T70/7051 Y10T70/7096 Y10T70/7102 Y10T70/7113 Y10T70/7136

European class: G01G15/00 G01G17/00 G01G23/37W2 G01G23/37W2T

US class: 242/899 49/325 70/275 70/275S 70/278.6 70/278.7 70/280 70/283.1 70/283.100P

Classification Explorer

Cited documents: WO9619405 A1, US8011260 BB, US7891145 BA, US7886493 BB, US7387046 BB, US7150206 BB, US6112474 A, US5896702 A, US5406751 A, US5271182 A, US4819495 A, US4726247 A, US4018397 A, US2006219144 AA, GB422781 A, FR2839351 A1, FR2826422 A1, EP1484465 A1, EP0534413 A1, DE19534614 A1,

Forward Citations: US9358684, US9109319, US9045311, US8791606, US8677836, US2016363517, US2016009417, US2013163219, US2013160569, US2012104873, CN104495661,

Abstract:
Source: US2010077810A The present invention relates to a locking device, a special actuator assembler and holder of an object in the state of rest besides being source of movement once integral with an object through an actuator having different shapes and lengths, wound up onto an appropriate and interchangeable reel fitted onto an engine driven shaft or stored. The locking function is switched on automatically when a force is applied. The function of servomotor to thrust and draw back is carried out through an actuator formed by two identical flexible and coiling sections whilst they slide separated inside a sheath; coming out of this and forced to assemble opposite and staggered they become stiff to hold and move. The held object is controlled by optic or electric signals transmitted by the actuators to the sensors for the measurement of events and break–into. The device has three clutched and reset locking and unlocking systems, one electrical and two manual.

0) US2015314998A – CHAIN BLOCK AND LOAD CHAIN

22) Family number: 56590863 (US2015314998A) © PatBase

Title: CHAIN BLOCK AND LOAD CHAIN

Priority: JP20120262615 20121130 WO2013JP81776 20131126

Family:

Publication number	Publication date	Application number	Application date
CN104812695 A	20150729	CN201380062099	20131126
EP2927181 A1	20151007	EP20130857965	20131126
EP2927181 A4	20161019	EP20130857965	20131126
JP2014108839 A2	20140612	JP20120262615	20121130
US2015314998 AA	20151105	US20130648791	20131126
US9586795 BB	20170307	US20130648791	20131126
WO14084207 A1	20140605	WO2013JP81776	20131126

Probable Assignee: KITO KK

Assignee(s):(std)**:** KITO KK

Assignee(s): KITO CORP

Inventor(s):(std)**:** ISHIKAWA KAZUMISTU ; ISHIKAWA KAZUMITSU ; KOSUGA KOSUKE ; KOSUGE KOSUKE

Agent(s): SCHAEFER MATTHIAS W; IAT WORLD PATENT LAW FIRM; CANTOR COLBURN LLP

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 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

International class(IPC 8–9)**:** B66D3/04 B66D3/16 F16G13/12 F16G15/00 F16G15/12 (Advanced/Invention)

CPC: B66D3/16 F16G13/12 F16G15/00 F16G15/12 B66D3/04

US class: 254/358 59/78

Classification Explorer

Cited documents: US6062543 A, US5956936 A, US5556078 A, US5445570 A, US3030076 A, US2013001489 AA, US2003213226 AA, SG89257 A1, KR100262999 B1, JP58221045 A2, JP50131632 A2, JP4638002 B2, JP4638002 B1, JP46038002 B4, JP46038002 B4, JP2011201637 A2, JP2004143526 A2, JP1989106494 A2, JP1106494 U1, JP1106494 U, JP1106494 A2, JP10310377 A2, HK101575503 A1, HK1015755 A1, EP0878434 A2, EP0602946 A1, DE69834688 T2, CN1199707 A, CA2236731 AA, AU729065 B2,

Forward Citations: US9802799, US2015166312, CN105152062, CN105129654, CN105129654,

Abstract:
Source: US2015314998A A chain block is provided including a load chain which hangs a load, and a load sheave member which is rotatably supported between a first frame and a second frame, around which the load chain is wound, and which has a chain pocket in which the load chain goes, the load chain is made of a steel material having the Rockwell hardness C scale (HRC) of 47 to 51, and the load sheave member is made of a steel material in which at least the chain pocket has the Rockwell hardness C scale (HRC) of 40 to 45.

0) US2011030605A – THREADING DEVICE

23) Family number: 43836076 (US2011030605A) © PatBase

Title: THREADING DEVICE

Priority: EP20090731100 20090407 NZ20080588800 20080411 WO2008SE50418 20080411 WO2009EP54145 20090407

Family:

Publication number	Publication date	Application number	Application date
AU2008354412 AA	20091015	AU20080354412	20080411
AU2008354412 BB	20130627	AU20080354412	20080411
CA2719649 AA	20091015	CA20082719649	20080411
CA2719649 C	20150407	CA20082719649	20080411
CN102317148 A	20120111	CN200880129282	20080411
CN102317148 B	20140813	CN200880129282	20080411
CY1114344 T1	20160831	CY20131100496T	20130619
DE602009014185 D1	20130516	DE200960014185T	20090407
DK2271545 T3	20130624	DK20090731100T	20090407
EP2271545 A1	20110112	EP20090731100	20090407
EP2271545 B1	20130320	EP20090731100	20090407
ES2415204 T3	20130724	ES20090731100T	20090407
HR20130555 T1	20130831	HR20130000555	20130618
JP2011516340 T2	20110526	JP20110503935T	20080411
JP5115895 B2	20130109	JP20110503935T	20080411
NZ588800 A	20120928	NZ20070588800	20080411
PT2271545 T	20130625	PT20090731100T	20090407
US2011030605 AA	20110210	US20090937267	20090407
US8312830 BB	20121120	US20090937267	20090407
WO09124934 A1	20091015	WO2009EP54145	20090407
WO09126082 A1	20091015	WO2008SE50418	20080411

Probable Assignee: CARLSON ERIC

Assignee(s):(std)**:** CARLSON ERIC ; ERIC CARLSON

Inventor(s):(std)**:** CARLSON ERIC ; ERIC CARLSON

Agent(s): ACACIA LAW; MACPHERSON LESLIE AND TYERMAN LLP; HOFFMANN EITLE PATENT U RECHTSANWAELTE PARTMBB; OLOFSSON JONAS TOR; MILTENYI PETER; DAVID A GUERRA INT PATENT GROUP LLC; DAVID A; ALBIHNS AB

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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B63B21/00 B63B21/04 B63B21/54 F16G11/14 (Advanced/Invention); B63B21/00 F16G11/00 (Core/Invention)

CPC: B63B21/54

European class: B63B21/54

US class: 114/230.26 114/230.260P

Classification Explorer

Cited documents: WO9611836 A1, US5740751 A, US4560098 A, SE453176 B, JPS61172882 U, JPS59100081, JP61172882 U1, JP61172882 U, JP59100081 A2, JP59100081, JP2003160094 A2, JP2003160094, JP1091608, GB723835 A, GB442857, GB287407 A, GB2206554 A1, FI85000 B, EP0108531,

DE102006029810 A1

DE102006029810,

Forward Citations: WO13030021, US9469689, US2012048167,

Abstract:
Source: US2011030605A The invention relates to a threading device (**1**) for the threading of a line through a ring member or the like that comprises a body (**2**), a rotatable arc−shaped element (**14**) suspended in the body and having an opening (**26**), and a line holding means (**16**) arranged to slide on the arc−shaped element, where the arc−shaped element is adapted to assume a first position with the opening in a first direction and a second position with the opening in a second position, and where the threading device further comprises transfer means (**18**) adapted to transfer a movement to the outer surface of the arc−shaped element in order to rotate the arc−shaped element between the first and the second position. The advantage of the invention is to provide a threading device that is easy to operate, that can be used by both pushing and pulling and that can be manufactured in a cost−effective way.

0) US2004231268A – SUSPENDING EQUIPMENT

24) Family number: 15997024 (US2004231268A) © PatBase

Title: SUSPENDING EQUIPMENT

Priority: EP20020755156 20020813 GB20010020522 20010823 WO2002GB03725 20020813 GB20010026181 20011101 WO2002GB03726 20020813

Family:

Publication number	Publication date	Application number	Application date
AT287050 E	20050115	AT20020755156T	20020813
AU2002321453 AA	20030310	AU20020321453	20020813
AU2002321453 BB	20061214	AU20020321453	20020813
BRPI0211677 A	20040713	BR2002PI11677	20020813
CA2456289 AA	20040202	CA20022456289	20020813
DE60202620 D1	20050217	DE20026002620	20020813
DE60202620 T2	20051229	DE20026002620T	20020813
DK1419324 T3	20050425	DK20020755156T	20020813
EP1419324 A1	20040519	EP20020755156	20020813
EP1419324 B1	20050112	EP20020755156	20020813
ES2235071 T3	20050701	ES20020755156T	20020813
GB200120522 A0	20011017	GB20010020522	20010823
GB200126181 A0	20020102	GB20010026181	20011101
GB200130430 A0	20020206	GB20010030430	20011220
GB2378980 A1	20030226	GB20010030430	20011220
GB2378980 B2	20030730	GB20010030430	20011220
JP2005503521 T2	20050203	JP20030523862T	20020813
MXPA04001257 A1	20040527	MX2004PA01257	20020813
PT1419324 T	20050531	PT20020755156T	20020813
US2004231268 AA	20041125	US20040487125	20040219
WO03019040 A1	20030306	WO2002GB03726	20020813
ZA200400742 A	20041130	ZA20040000742	20040129
ZA200400742 A	20050223	ZA20040000742	20040129

Probable Assignee: GRIPPLE LTD

Assignee(s):(std)**:** BOALER DEREK ; FACEY HUGH DAVID ; GRIPPLE LTD

Assignee(s): GRIPPLE LTD SHEFFIELD ; GRIPPLE LIMITED

Inventor(s):(std)**:** BOALER DEREK ; DEREK BOALER ; FACEY DAVID ; FACEY HUGH DAVID ; HUGH DAVID FACEY

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; ROBIC

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

International class (IPC 8–9): F16B1/00 F16B1/02 F16G11/04 F16G11/10 F16G11/14 (Advanced/Invention); F16B1/00 F16G11/00 (Core/Invention); F16G (Subclass/Invention)

International class (IPC 1–7): E04B2/00 F16B1/00 F16B1/02 F16G F16G11/00 F16G11/04 F16G11/10 F16G11/14

CPC: F16G11/14 F16G11/106

European class: F16G11/10 F16G11/14

US class: 52/506.01 52/506.06

Classification Explorer

Cited documents: WO0001958 A1, US6554253 BA, US5743062 A, US549069 A, US5482341 A, US5183233 A, US5085392 A, US4570891 A, GB1369238 A, GB1290487 A, EP0926393 A1, DE29809453 U1,

Forward Citations: WO13086130, WO11004152, WO08089891, WO07031730, WO04085255, US9188193, US8112847, JP2009502233, GB2450965, GB2450965, FR2911652, EP1462368, AU2004222810,

Abstract:
Source: US2004231268A Means for suspending equipment (21) from an overhead structural member (16) comprises a suspension strand (10), e.g. a length of wire rope, with a nipple (11) at one end, a toggle plate (12) with an aperture (13) through which the strand can pass but not the nipple, together with a locking device (18) having twin bores (17A, 17B) associated with wedging means (19A, 19B), the toggle plate (12) and nipple (11) being pushed through a hole (15 or 34) in the overhead structural member (16) or the equipment (21), for the toggle plate to overlie or underlie the hole, while the free end (14) of the strand (10) is passed through one bore (17A) of the locking device (18), through an eye (20) on the equipment (21) or round the equipment or through an eye (35) on the overhead structural member (16) or round the overhead structural member, and finally through the other bore (17B) of the locking device (18).

0) US4058424A – METHOD OF AND DEVICE FOR PRODUCING IN A CONTINU...

25) Family number: 1646340 (US4058424A) © PatBase

Title: Method of and device for producing in a continuous operation endless driving belts of any desired circumferential length

Priority: DE19752526691 19750614

Family:

Publication number	Publication date	Application number	Application date
DE2526691 A1	19770113	DE19752526691	19750614
DE2526691 B2	19781019	DE19752526691	19750614
DE2526691 C3	19790607	DE19752526691	19750614
FR2314045 A1	19770107	FR19760017803	19760611
FR2314045 B1	19820416	FR19760017803	19760611
GB1496455 A	19771230	GB19760024366	19760611
IT1067804 A	19850321	IT19760024229	19760611
JP51151774 A2	19761227	JP19760069653	19760614
JP53025579 B4	19780727	JP19760069653	19760614
JP951706 C3	19790525	JP19760069653	19760614
US4058424 A	19771115	US19760695379	19760614

Probable Assignee: BRECO KUNSTSTOFF

Assignee(s):(std)**:** BRECO KUNSTSTOFF

Assignee(s): BRECO KUNSTSTOFFVERARBEITUNGS ; BRECO KUNSTSTOFFVERARBEITUNGS GMBH AND CO KG ; BRECO KUNSTSTOFFVERARBEITUNGS GMBH AND CO KG 4952 ; BRECO KUNSTSTOFFVERARBEITUNGS GMBH AND CO KG 4952 PORTA WESTFALICA ; BUREKO KUNSUTOSHIYUTOTSUFUFUERUARUBAITSUNGUSU GMBH UNTO CO KG

Inventor(s):(std)**:** BREHER RUDOLF ; RUUDORUFU BUREEERU

Inventor(s): BREHER RUDOLF 4952 PORTA WESTFALICA

International class (IPC 8–9)**:** B29C45/00 B29C61/00 B29C69/00 B29D1/00 B29D29/00 F16G1/16 (Advanced/Invention)

International class (IPC 1–7)**:** B29C24/00 B29D29/00 B29D29/02 B29D3/00 B29F1/10 F16G1/16

CPC: B29D29/08

European class: B29D29/08

US class: 156/137 156/140 156/245 156/494 156/500 425/113 425/115 425/373

Classification Explorer

Cited documents: US3973894 A, US3891364 A, US3880558 A, US3700365 A, JP48072281 A2, JP47000895 A2, JP46031014 A2, JP45008343 B4, FR874574 A, FR2238576 A1, FR2141349 A5, FR2137850 A1, FR2113409 A5, FR2047718 A5,

Forward Citations: WO13090835, US9676555, US9421722, US9169896, US8668799, US8603290, US8454464, US8287266, US6966763, US5925959, US5256045, US4600549, US4563323, US4515743, US4486375, US4309375, US4268471, US4251306, US2008078499, US2008047656, US2004022890, NL8304447, NL8304447, NL8002927, NL8002927, FR2538298, FR2348042, EP3124207, EP0182650, EP0182650, EP0021054, DE3931480, DE3440742, DE3248264, DE2920916, DE102015214103,

Abstract:
Source: US4058424A A method of producing in a continuous process an endless driving belt of any desired circumferential length of an extrudable synthetic material with a pull–resistant reinforcing insert extending in the longitudinal direction of the belt to be produced, according to which a mold chamber is formed between a rotatable molding wheel and an endless molding belt moving along a portion of the circumference of the molding wheel together with the latter. Liquid synthetic material is in a continuous manner and under pressure introduced into the sealed start of the mold chamber. The reinforcing insert is in a sealed manner likewise continuously introduced into the mold chamber while the reinforcing insert during the embedding thereof in the liquid synthetic material is

up to the solidification of the synthetic material and prior to leaving the mold chamber supported at a radial distance from the surface of the molding wheel. When leaving the end of the mold chamber, the strand of synthetic material with the reinforcing insert therein is passed around a tensioning wheel spaced from the molding wheel by a distance adjusted in conformity with the desired circumferential length of the belt. The strand of synthetic material is during a simultaneous displacement in axial direction of the molding wheel by the width of the aforementioned strand returned to the molding wheel. The strand is then directly laterally adjacent the mold chamber with at least one portion of its width again introduced between the molding wheel and the molding belt while the mold chamber formed thereby is on that side thereof which faces the returned strand directly sealingly closed by the strand while the other side of the mold chamber is closed by the molding wheel and the molding belt. In a continuous manner at the start of the mold chamber, a new strand formed from introduced liquid synthetic material is injection molded onto that lateral surface of the returned strand which faces the mold chamber, the strand laterally closing the mold chamber.

26) Family number: 12620696 (US5957797A) © PatBase

Title: Automatic change transmission utilizing continuous elastic drive belt and method

Priority: US19960706528 19960904 US19990315424 19990520

Family:

Publication number	Publication date	Application number	Application date
US5957797 A	19990928	US19960706528	19960904
US6135907 A	20001024	US19990315424	19990520

Probable Assignee: UNIV COLUMBIA

Assignee(s):(std): UNIV COLUMBIA ; UNIV WRIGHT STATE

Assignee(s): WRIGHT STATE UNIV ; WRIGHT STATE UNIVERSITY ; THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF ; THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK ; TRUSTEES OF COLUMBIA UNIV

Inventor(s):(std): HONG SHANE YUAN

International class (IPC 8–9): F16G1/00 F16G1/20 F16G1/28 F16H61/662 (Advanced/Invention)

International class (IPC 1–7): F16G1/28 F16H1/28 F16H7/00

CPC: F16G1/00 F16G1/20 F16G1/28 F16H61/6625

European class: F16G1/00 F16G1/20 F16G1/28 F16H61/662F

US class: 474/148 474/205

Classification Explorer

Cited documents: US924324 A, US5957797 A, US5662541 A, US5405299 A, US5346439 A, US5181890 A, US4770065 A, US4706800 A, US4589858 A, US4559029 A, US4494946 A, US4229988 A, US4229985 A, US4078443 A, US3881316 A, US386335 A, US3851536 A, US375308 A, US3599505 A, US3599504 A, US3083582 A, US254089 A, US2307192 A, US2251772 A, US1586353 A, US1371513 A, US1214911 A,

Forward Citations: US9541173, US9528584, US9493306, US7156777, US6612402, US6575856, US6508733, US6135907, US2014151195, US2005148441, EP3219976,

Abstract:
Source: US5957797A Methods and apparatus change speeds between a drive shaft and a driven shaft during power transmission between the shafts. Fixed diameter drive and driven wheels are secured to the shafts and a continuous elastic belt interconnects the drive wheel and the driven wheel. As power is transmitted between the shafts, one side of the elastic belt extending between the wheels is placed in tension and elongated in proportion to the tension while the other side of the elastic belt is untensioned and not elongated. The elongated portion of the belt remains elongated as it passes around the wheel which is driving and the slack portion of the belt remains relaxed as it passes around the wheel which is being driven. To accommodate the elongated state of the belt, the driving wheel must go faster than the driven wheel with the speed difference being dependent upon the amount of power being transmitted between the wheels and hence the amount of elongation of the elongated portion of the belt. Preferably, the elastic belt has ribs which are separated by substantially constant distances for the relaxed separated by distances which vary in proportion to the tension placed on the tensioned portion of the belt. To reduce slippage of the belt as power is transmitted between the wheels, axial grooves sized to receive the ribs are formed around the periphery of the wheels.

27) Family number: 29177077 (US2002073947A) © PatBase

Title: VALVE MECHANISM, IN PARTICULAR FOR INTERNAL COMBUSTION ENGINES OF MOTOR VEHICLES

Priority:

AT19980001027	19980616	AT20010001224	20010806	AT20020001728	20021115
US20020213625	20020806	DE19992010170	19990610	US20030706830	20031112
US20020074811	20020212	DE19992010170U	19990610	DE19992016363U	19990610
WO2002AT00096	20020328	WO2003AT00050	20030217	US20040949913	20040924
WO2000AT00215	20000808	US20040913733	20040805	WO1999AT00198	19990812

Family:

Publication number	Publication date	Application number	Application date
AU199952706 A1	20010313	AU19990052706	19990812
AU199952706 A5	20010313	AU19990052706	19990812
AU200065484 A1	20010313	AU20000065484	20000808
AU200065484 A5	20010313	AU20000065484D	20000808
AU2002242449 AA	20030224	AU20020242449	20020328
AU2003208163 AA	20031013	AU20030208163	20030217
DE20320710 U1	20050210	DE20032020710U	20030217
DE29910170 U1	19991209	DE19992010170U	19990610
DE29916363 U1	19991230	DE19992016363U	19990610
EP1206628 A1	20020522	EP20000952787	20000808
EP1206629 A1	20020522	EP19990938053	19990812
EP1415069 A1	20040506	EP20020707993	20020328
JP2003507616 T2	20030225	JP20010517032T	19990812
US2002073947 AA	20020620	US20020074811	20020212
US2002073948 AA	20020620	US20020075066	20020212
US2002185092 AA	20021212	US20020213625	20020806
US2004094108 AA	20040520	US20030706830	20031112
US2004154567 AA	20040812	US20040772183	20040204
US2005005885 AA	20050113	US20040913733	20040805
US2005092274 AA	20050505	US20040949913	20040924
US6705262 BB	20040316	US20020074811	20020212
US6796277 BB	20040928	US20030706830	20031112
US6802287 BB	20041012	US20020213625	20020806
US6904882 BB	20050614	US20040913733	20040805
US6951148 BB	20051004	US20040772183	20040204
US6968814 BB	20051129	US20040949913	20040924
WO0112958 A1	20010222	WO1999AT00198	19990812
WO0112959 A1	20010222	WO2000AT00215	20000808
WO03014535 A1	20030220	WO2002AT00096	20020328
WO03083269 A1	20031009	WO2003AT00050	20030217

Probable Assignee: STEFAN BATTLOGG

Assignee(s):(std)**:** BATTLOGG STEFAN ; STEFAN BATTLOGG

Inventor(s):(std)**:** BATTLOGG STEFAN

Inventor(s): STEFAN BATTLOGG

Agent(s): LERNER AND GREENBERG PA; GREENBERG LAURENCE A; STEMER WERNER H; LOCHER RALPH E; WERNER H; RALPH E; LAURENCE A

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW

HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8–9): F01L1/02 F01L1/04 F01L1/047 F01L1/053 F01L1/08 F01L1/20 F01L1/26 F01L1/30 F01L1/34 F01L1/46 F01L13/00 F01L3/10 F16G13/06 F16H53/02 F16H53/06 (Advanced/Invention); F01L1/04 F01L1/20 F01L3/10 (Advanced/Non–invention); F01L1/00 F01L1/02 F01L1/04 F01L1/08 F01L1/20 F01L1/26 F01L1/34 F01L13/00 F01L3/10 F16G13/00 F16H53/00 (Core/Invention)

International class (IPC 1–7): F01L1/02 F01L1/04 F01L1/047 F01L1/08 F01L1/18 F01L1/20 F01L1/26 F01L1/30 F01L1/34 F01L1/46 F01L13/00 F01L3/10 F16G13/06 F16H21/16 F16H25/08 F16H25/10 F16H53/00 F16H53/02

CPC: F01L1/12 F01L3/20 F01L2001/0471 F01L2001/0475 F01L2003/11 Y10T74/1683 Y10T74/18056 Y10T74/18296 Y10T74/2101 Y10T74/2107 Y10T74/1828 F16H53/02 F01L1/024 F01L1/04 F01L1/047 F01L1/053 F01L1/0532 F01L1/08 F01L1/26 F01L1/30 F01L1/46 F01L2101/00 F16H53/06 F01L13/0057 F01L2001/0473

European class: F01L1/02B F01L1/04 F01L1/046 F01L1/047 F01L1/053 F01L1/053B F01L1/08 F01L1/26 F01L1/30 F01L1/46 F01L13/00D8 F16H53/02 F16H53/06 R01L1/047A1 R01L101/00 R16H53/02

US class: 12/39.034 12/39.052 12/39.06 123/90.15 123/90.150S 123/90.16 123/90.160P 123/90.17 123/90.170P 123/90.18 123/90.24 123/90.26 123/90.260P 123/90.260S 123/90.27 123/90.270S 123/90.34 123/90.39 123/90.44 123/90.440S 123/90.52 123/90.6 123/90.600S 251/251 7/456.7 7/456.9 74/25 74/53 74/55 74/550 74/567 74/569 74/838

Classification Explorer

Cited documents: WO9826161 A2, WO03104618 A1, WO03014535 A1, WO0112959 A1, WO0112958 A1, US6796277 BB, US6705262 BB, US5931130 A, US5664463 A, US5505168 A, US5477746 A, US5431131 A, US5297508 A, US5125372 A, US5090366 A, US5058540 A, US5048474 A, US4887565 A, US4876916 A, US4711202 A, US4615310 A, US4598947 A, US4200081 A, US4036185 A, US2954017 A, US2888837 A, US2858818 A, US2004177821 AA, US2004154567 AA, US2004094108 AA, US2002185092 AA, US2002073948 AA, US2002073947 AA, US1937152 A, US1902996 A, US1869919 A, US185092 A, US1735695 A, US1644059 A, US1591607 A, US1493419 A, GB741831 A, GB434247 A, GB3700715, GB2207968 A1, GB2066403 A1, GB2037715 A1, GB19193, GB19193, GB19193, GB19193, GB191419193 A, FR2817908 A1, EP0429277 A1, EP0384361 A3, EP0384361 A2, EP0355659 A1, DE3705128 A1, DE3700715 A1, DE10053776 A1,

Forward Citations: WO15123418, WO05108751, WO03104618, WO03083269, WO03014535, WO02081871, USD530150, US9664266, US9612576, US9488074, US9366158, US9091339, US8844403, US8726861, US8622039, US8511203, US8033261, US7914279, US7421988, US7143995, US7101375, US7051691, US6968814, US6951148, US6948468, US6945206, US6802287, US2015336223, US2015323901, US2014150602, US2013333514, US2012255393, US2012048219, US2012017721, US2006065871, US2006040223, US2006027194, US2006000934, US2005224029, US2005188936, US2005092274, US2004237706, US2004177821, US2004154567, US2001012938, KR101288649, KR101134813, FR3000534, FR2817908, EP1752623, EP1752621, EP1752621, EP1752620, EP1672183, EP1624161, EP1624160, EP1607588, EP1600610, EP1580405, EP1580405, EP1255025, EP1247946, EP1245797, EP1205643, DE10225620, DE102015214837, DE102005038504, DE102005038504, DE102005038502, DE102005033653, DE102004029621, DE102004026430, CN105386804, CN105333097, CN103732868, CN103397922, CN103362587, CN102425466,

Abstract:
Source: US2002073947A A valve lift mechanism, in particular for internal combustion engines of motor vehicles, has a driven cam element, a valve control member which can be driven (translational movement or pivot rotation) by the cam element, and a flexible enveloping element, wherein the cam element is rotationally mounted The enveloping element is movably connected to the valve control member in the plane perpendicular to the axis of rotation of the cam element.

0) US4275786A – APPARATUS FOR SELECTIVELY COUPLING CABLES TO WE...

28) Family number: 5161179 (US4275786A) © PatBase

Title: APPARATUS FOR SELECTIVELY COUPLING CABLES TO WELL TOOLS

Priority: GB19800022808 19800711 US19780969916 19781215

Family:

Publication number	Publication date	Application number	Application date
FR2444201 A1	19800711	FR19790030673	19791214
FR2444201 B1	19860725	FR19790030673	19791214
GB2079347 A1	19820120	GB19800022808	19800711
GB2079347 B2	19840620	GB19800022808	19800711
US4275786 A	19810630	US19780969916	19781215

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s):(std)**:** SCHLUMBERGER LTD ; SCHLUMBERGER PROSPECTION ; SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): SCHLUMBERGER PROSPECTION ELECTR

Inventor(s):(std)**:** LEE ARLEY G

International class (IPC 8–9): E21B17/02 E21B17/06 E21B29/02 F16G11/00 H01R13/523 (Advanced/Invention); E21B17/02 E21B29/00 F16G11/00 H01R13/523 (Core/Invention)

International class (IPC 1–7): E21B17/02 E21B17/06 E21B29/02 E21B31/00 E21B47/00 F16G11/00 G01V11/00 H01R4/00

CPC: Y10S285/92 Y10T403/11 Y10T403/1633 Y10T403/22 Y10T403/23 H01R13/523 E21B17/023 E21B17/028 E21B17/06 E21B29/02 F16G11/00

European class: E21B17/02C E21B17/02E E21B17/06 E21B29/02 F16G11/00 H01R13/523

US class: 166/63 166/65R 166/66 285/306 285/33 285/920 294/86.17 403/15 403/2 403/31 403/32

Classification Explorer

Cited documents: US3889347 A, US3782838 A, US3517740 A, US3373817 A, US3327784 A, US3253653 A, US2621895 A, FR2268150 A1, FR1125031 A, DE2533584 A1,

Forward Citations: WO08102119, WO08102119, WO04093097, WO04093097, WO04046497, US8322449, US8291970, US8272446, US8256521, US8056638, US7591318, US7409987, US7407005, US7326854, US7294787, US7259331, US7119283, US6896305, US6431269, US6354379, US6033310, US5470118, US5257663, US4997041, US4909321, US4753291, US4648444, US4624308, US4568933, US4399877, US2015247382, US2011235981, US2010314127, US2010108328, US2010108327, US2010089566, US2009308620, US2009194314, US2007158095, US2007044991, US2007026704, US2007003780, US2006278388, GB2415726, GB2415726, EP2381063, EP2309095, EP1489259, EP1197631, EP0325338, EP0198672, AU2003204112, AU2003204107,

Abstract:
Source: US4275786A In the several representative embodiments of selectively–operable well bore apparatus disclosed herein for dependently coupling a well tool to a suspension cable, a collapsible assembly of two or more retaining members is arranged within an enclosed chamber and operatively positioned for normally retaining upper and lower tool–support members in a position where they are tandemly coupled or interconnected. In each of the several embodiments of the invention disclosed herein, electrically–responsive securing means normally maintaining the collapsible assembly in its initial position are cooperatively arranged to be selectively failed so as to allow collapse of the retaining assembly should it become necessary to separate the cable from the well tool while it is in a well bore. Provisions are also made for admitting well bore fluids into the enclosed chamber upon collapse of the retaining assembly so as to assure release of the cable even under extreme well bore pressures.

29) Family number: 751335 (IL30886A1) © PatBase

Title:	DEVICES FOR CONNECTING AND MOUNTINGFLEXIBLE CONNECTING ELEMENTS AND ELECTRICAL CONDUCTORS
Priority:	DE19671266384 19671017

Family:

Publication number	Publication date	Application number	Application date
IL30886 A1	19720726	IL19680030886	19681016

Probable Assignee:	PASBRIG M
Assignee(s):(std):	PASBRIG M
Assignee(s):	MAX PASBRIG
Agent(s):	EITAN PEARL LATZER AND COHEN ZEDEK
International class (IPC 8–9):	F16G11/04 (Advanced/Invention); F16G11/00 (Core/Invention)
International class (IPC 1–7):	F16G11/04 H01R7/06

Classification Explorer

Abstract:
Source: IL30886A1 WHAT I CLAIM IS:– 1. A device for detachably connecting and mounting flexible connecting elements and electric conductors, in which a spring–loaded clamping member guided in a chamber of a housing clamps the said connecting element or conductor between itself and the wall of the chamber, wherein the chamber is formed by the intersection of two bores forming an acute angle and a spring,retaining the tiltable clamping element,is guided in one and the connecting element or electrical conductor in the other bore. 2. A device as claimed in claim 1, wherein the spring biassing the clamping element is a conically wound helical spring into one end,of which the clamping element, equipped with a shank with a wider portion, is hooked. • 3. A device as claimed in claim 1, comprising a displaceable actuating handle for releasing the self–locking action or for inserting a connecting element, whereby the clamping member may be pushed back against the action of the spring. 4. A device as claimed in claim 1, wherein, in order to form a safety against accidental release, the actuating member is affected by spring force or by magnetic force, acting transversely of the helical spring acting on the clamping member and thereby retaining the actuating handle. ' 5. A device as claimed un claim 1, wherein a tensioning ' device with means for locating the connecting element coming from the chamber containing the clamping member, is detachably mounted on the housing. – . 33 6. A device as claimed in claim 1 wherein the housing has an open or closable slot, extending from the outside to the chamber containing the clamping member and having a width larger than the diameter of the connecting element, and extending substantially in the direction of this connecting element. 7. A device as claimed in claim 1, forming a tension lock for a safety belt comprising in a substantially rectangular chamber a plurality of clamping members which retain the safety belt in a self–locking manner. • ' 8. A device as claimed in claim 1 wherein the neck of the clamping member is articulately mounted on a slide sliding in the bore receiving the spring and carrying an actuating handle. 9• A device as claimed in claim 1 wherein, for con– necting two connecting elements, two bores, offset through 180 degrees lead into the chamber, ¦containing a. helical spring wound as a double cone, each end of Which carries a clamping element and wherein the shell of the housing has at least one longitudinal slot in which an actuating handle is slidingly mounted. • TO. A device as claimed in claim 3 wherein the shank of the clamping element is embraced by the looped end of a wire passing through a slot to the actuating handle. 11. A device as claimed in claim 1 wherein two bores are provide.d at the end of the bore receiving the spring into which a hook engages with its ends and wherein the hook ends projecting into the bore.serve as abutment for the spring., ' 12. A device as claimed in claim 9 wherein the housing comprises two diametrically opposite slots extending to the chamber containing the spring, and the bore has a guide member with pins, extending outwardly through the slots and carrying actuating elements at their outer ends. 13 A device as claimed in claim 8 wherein the end of the shank of the clamping member has a mounting pin extending across the shank and articulately movable in a groove of the slide, 14. A device as claimed in claim 4 wherein the actuating. handle is pivotable and axially movable in a recess of the shell and the wall of the recess has guide–like ratchets in the direction of the release of the actuating handle, 15 A device as claimed in claim 5 wherein the tensioning mechanism comprises a lever arm with a forked end and pivots in the forked end received in opposite bores of the housing, or com– prising a rotatable pin normal to the longitudinal axis of the housing, one end of which has an eyelet into which engages one prong of the fork lever end and whose other end is embraced by the second, forked, prong of the said forked end, • 16. A device as claimed in claim 15 wherein the lever has a laterally open slot into which the connecting element can be ' placed and in which a clamping device is located, consisting of a leaf spring and a clamping member, 1? A device as claimed in claim 5 and '15 wherein the lever comprises a clamping device consisting of a sleeve with helical spring, clamping element and actuating handle. –., •... ¦ 18. A device as claimed in claim 5 wherein the tensioning device for fixing the cable to be tightened has an eccentric clamping device or a lug receiving several.turns of the conductive element. ¦ 19 A device as claimed in claim 6 wherein a chamber for receiving the clamping element in the open position is

arranged..inside the housing obliquely to the bore. 20. A device as claimed in claim 6 characterized in that the pressure surface of the clamping member is adapted to the con– necting element or is concave preventing the connecting element from escaping laterally towards the slot in the locked state. 35 • 21" A device as claimed in claim 6 wherein the slot is labyrinth–shaped preventing an inserted connected element from escaping.: . 22. A device as claimed in claim 6 wherein the housing is a sleeve with U–shaped cross–section, the open side of which can be closed by a cover. • . , . 23. A device as claimed in claim 6 and 22 wherein the cover, is slicLingly mounted in a wall of the sleeve and a locking means is provided for retaining the cover in the locked position. 24. A device as claimed in claim 6 and 22 wherein the slot passes obliquely through the sleeve and the remaining part of the inner bore is closed. . 25. A device as claimed in claim 6 comprising a: dis– placeable slip–over bush for closing the lateral slot. 26. A device as claimed in claim•6 wherein for mounting a connecting element stressed under tension in both directions, the device is a dual or multiple clamping device comprising at both ends of a continuous chamber springs with associated clamping members acting in opposite directions.. 27. A device as claimed in claim 6 comprising a mounting for being mounted on"a wall or on another fixed point. 28. A device as claimed in claim 7 wherein an inlet slot and an outlet slot lead into the chamber of the tension lock at an acute angle. . . ¦ .. 29 .. A device 3s claimed in claim 7 comprising an actuating. member in the form of a slide.with lateral gripping members, extending over the whole width of the lock, and wherein the clamping members are movably mounted on the slide, enabling them to tilt in a plane normal to the surface of the safety belt. 36 /) 30 . A device as claimed in claim 7 wherein the clamping members are flat profiles comprising within the profile a thicker head portion, a ribbed support surface facing the belt, a thinner shank and a bearing ball at the end of the clamping member. 3'l. A device as claimed in claim 7 wherein the tensioning lock is a twin lock with two sets of clamping members,springs, inlet and outlet slots, so that every part of the belt may be shortened or locked or one set of the clamping members is associated with a lug mounted on one part of the belt and the other with the other part of the belt. ' 32. A device as claimed in claim 7 and 30 wherein the centre clamping member of a set is drop–shaped and the outer members are flat profiles. 33. A device as claimed in claim 7 and 30 wherein angled metal strips are hooked into the shanks of the clamping members and are connected with an actuating slide movable on the upper surface of the tension lock. • 34. A device for detachably connecting several electrical conductors as claimed in claim.1, comprising a number of spaced apart sleeve shaped bodies, each with a continuous inner bore and two oblique bores,, terminating near one end of the inner bores, one spring in each inner bore, clamping members mounted on the two ends of the springs and pressed against the end openings, and a plastic strip in which the sleeve–like bodies are embedded.. 35 A device as claimed in claim 1 wherein the clamping members and the chambers receiving the ends of electrical con– duetors are mounted directly in the housing of an electrical appliance. 37 36. A device for detachably mounting several electrical conductors according to claim 1 wherein several plate–shaped conducting bodies with bores, chambers, springs and clamping elements are electrically insulated by plastic plates and com– bined by a common plastic frame to form a block wherein the plate–like conducting bodies connect certain inner bores at the ¦ connecting points conductively within the block. 37. A device for detachably mounting several electrical conductors according to claim 1 wherein the inner bores containing the springs extend continuously from one side wall of a'block of electrically conducting material to the other side wall. 38. A device as claimed in claim 1 and 36 wherein the conducting block is a cylinder in which the oblique bores pass through the shell 39. A device as claimed in claim 36 wherein the plate– shaped bodies have slots parallel to the inner bores and inter– sec ting the same,–.'in which lies an actuating pin for the springs of clamping members passing through all inner bores. . 40.. A device as claimed in claim 1 comprising an actuating device in the•form of a pressure source for producing a flow of pressure medium_ through the bore containing the spring depressing the clamping member against the action of the associated spring. 41. A device as claimed in claim 40 wherein the chamber receiving.the clamping member and formed by the inner and oblique bores communicates with a. pressure medium inlet and a pressure medium outlet and comprises a venturi restriction in front'of the chamber. . ¦ 42. A device as claimed in claim 39 wherein, for connecting pre–fabricated cable tree's or a plurality of wires, the chambers are so connected by channels as to enable the simultaneous operation of a larger number of clamping members. 38 43 A device as claimed in claim 39 wherein the wire ends are retained in pen–shaped plugs introduced into the chambers and locked by the clamping members 44. A device as claimed in claim 1 wherein an electrically conducting strip is fitted into the chamber wall longitudinally of the. chamber, against which the conductor end is pressed and which is connected to an electrical terminal. 4.5– A device as claimed in claim 44 comprising a terminal strip with two adjacent rows of chambers wherein the facing chambers of the two rows form acute angles and the conducting strips are substantially of V–shape and connect mutually facing chambers with each other. .. 46. A• device as claimed in claim 44 wherein the bore extending obliquely to the axis of the chamber receiving the clamping member is an outwardly closed chamber receiving the conductor end. . 47. A device as claimed in claim 44 wherein a tongue is stamped out of the conducting strip at the inlet into the second chamber, and the conductor end abuts on this tongue. 48. A device as claimed in claim 44 wherein the con– ducting strip is located in the wall of the said further chamber 49 A device as claimed in claim 44 wherein the clamping member has a bore extending transversely to the conductor end and into which an actuating member can be inserted to release the con– duetor end. 50. A device as claimed in claim 49 wherein the actuating element is a. rod extending through the clamping member and guided in slots extending in the axial direction of the chamber receiving the clamping:member. 51. A device as claimed in claim 45 wherein all cImping members of each row are threaded on a. rod in spaced relationship and the•plastic rod has thicker points•for spacing the clamping bodies and is rotatably mounted therein. 52. A device as claimed in claim 51 wherein slides are slidingly mounted in recesses of the terminal strip and act on the two rods carrying the clamping members and extending in spaced relationship longitudinally in the terminal strip so that actuation in one direction operates the clamping members anyone side of the strip and actuation in the other direction the opposite clamping members. . 53• A device as claimed in claim 44 wherein the conducting strip is fitted into a groove of the chamber wall. 54. A device as claimed in claim 44 wherein the conducting strip has recess extending in the direction of the conductor and adapted to receive the same. \ COHEN ZEDEK and SPISBACH P. 0. Box 1169, Tcl–Aviv Attorneys for Applicant

0) US2013172858A – REDUCED BACKFLASH JOINT AND METHOD OF MAKING SA...

30) Family number: 50118082 (US2013172858A) © PatBase

Title: REDUCED BACKFLASH JOINT AND METHOD OF MAKING SAME

Priority: US20100354042P 20100611 US20110702525 20110607 WO2011US39402 20110607

Family:

Publication number	Publication date	Application number	Application date
EP2579798 A2	20130417	EP20110792999	20110607
EP2579798 A4	20170517	EP20110792999	20110607
US2013172858 AA	20130704	US20110702525	20110607
US9357983 BB	20160607	US20110702525	20110607
WO11156340 A2	20111215	WO2011US39402	20110607
WO11156340 A3	20120412	WO2011US39402	20110607

Probable Assignee: CAREFUSION 2200 INC

Assignee(s):(std)**:** CAREFUSION 2200 INC ; DOYLE MARK

Inventor(s):(std)**:** DOYLE MARK

Agent(s): JOHNSON RICHARD ALAN; ARENT FOX LLP; CHESSER WILBURN L ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 PE PG PH PL PT RO RS RU 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

International class (IPC 8–9): A61B17/00 A61B17/28 A61B19/00 B21L11/00 B25J17/02 B25J9/06 F16D3/16 F16D3/26 F16D3/42 F16G13/00 F16G13/02 F16G13/08 F16G13/10 (Advanced/Invention); A61B17/34 (Advanced/Non–invention)

CPC: A61B17/00 B21L11/00 F16G13/02 A61B34/30 A61B34/37 A61B2034/305 B23P2700/11 F16G13/08 Y10T29/49826 Y10T29/49865 Y10T29/49936 A61B2017/00314 A61B2017/00526 A61B2017/3409 F16D3/42 F16D2250/00 F16G13/10 A61B17/2816 A61B2017/2947

European class: A61B19/22B F16D3/42 F16G13/10 K61B17/00E3G4S K61B17/00M K61B17/34D1D K61B19/22B10 K61B19/22B16 R16D250/00

US class: 1/1 59/7 59/84 606/1

Classification Explorer

Cited documents: WO07146984 A2, US4349954 A, US4033020 A, US2624907 A, US2008231042 AA, US2008086857 AA, US2006213752 AA, JP54001382 A2, JP5253174 A2, JP297552, JP2097552 A2, JP2009161793 A2, JP2008237812 A2, JP10014862 A2, EP2140819 A1, EP0297552 A2,

Forward Citations: WO16069998, US8849437,

Abstract:
Source: US2013172858A A joint and a corresponding method of creating a precision–fit joint, including creating a mating surface on a first joint component so that the mating surface includes one or more interfering features, connecting a second joint component with the mating surface such that the interfering feature is compressed, and heating the mating surface above a glass transition temperature or melting temperature of the mating surface, or otherwise treating the surface, so as to induce flow of material from the interfering feature to a area of relatively low pressure between the first joint component and the second joint component.

0) WO0138756A1 – CABLE LOCK AND SEAL DEVICE DISPOSITIF D'ETANCH...

31) Family number: 20675570 (WO0138756A1) © PatBase

Title: CABLE LOCK AND SEAL DEVICE

Priority: GB19990027870 19991126 WO2000GB04462 20001124

Family:

Publication number	Publication date	Application number	Application date
AU200115342 A1	20010604	AU20010015342	20001124
AU200115342 A5	20010604	AU20010015342D	20001124
GB199927870 A0	20000126	GB19990027870	19991126
GB9927870 A0	20000126	GB19990027870	19991126
WO0138756 A1	20010531	WO2000GB04462	20001124

Probable Assignee: BLOXWICH TRANSPORT PROD LTD

Assignee(s):(std)**:** BLOXWICH TRANSPORT PROD LTD ; BLOXWICH TRANSPORTATION PRODUC ; BROWN CLIVE ALBERT ; BLOXWICH TRANSPORTATION PRODUCTS LIMITED ; BLOXWICH ENG

Assignee(s): BLOXWICH ENGINEERING LIMITED ; BLOXWICH ENGINEERING LTD ; BLOXWICH TRANSPORTATION PRODUCTS LTD

Inventor(s):(std)**:** BROWN CLIVE ALBERT

Inventor(s): CLIVE ALBERT BROWN

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

International class (IPC 8–9): F16G11/04 F16G11/10 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7): F16G11/04 G09F3/03

CPC: G09F3/0352 F16G11/02 F16G11/108 F16G11/14 G09F3/0358

European class: F16G11/04 F16G11/10 G09F3/03A6B G09F3/03A6C

Classification Explorer

Cited documents: US830656 A, US830565 A, US5538300 A, US5222776 A, US4747631 A, US4074916 A,

Forward Citations: WO17016687, WO04005753, RU173718, GB2453756, GB2453756, EP3115642, EP3115641, EP3115640, EP3102848,

Abstract:
A cable lock and seal device comprises a body (2) having a passage (9) therethrough and an elongate flexible inextensible member such as a cable (11) having one end (13) attached to the body, the opposite end being adapted to pass through the passage so that such cable engages a friction roller enclosed by the body, and rotatable about an axis normal to the axis of the passage. The roller (17) is movable upwardly along a surface (20) of a ramp which is inclined with respect to the axis of the passage (9) thereby to reduce the dimension of the passage available for accommodating the cable. A spring (19) is arranged to bias the roller (17) against the cable (11) when the latter is inserted into the passage (9), whereby, on attempted withdrawal of the cable from that passage, frictional engagement between the roller (17) and the cable (11) tends to draw the roller (17) upwardly along the ramp surface (20) to cause a jam fit with the cable (11) to resist further withdrawal. The spring (19) is arranged to bias the ramp surface (20) towards the axis of the passage (9), and that ramp surface (20) may be constituted by a surface of the spring (19).

32) Family number: 33095727 (US2006180402A) © PatBase

Title: INSTALLATION WITH BELT–LIKE DRIVE MEANS AND METHOD FOR TRANSMISSION OF ELECTRICAL ENERGY OR SIGNALS IN SUCH AN INSTALLATION

Priority: CA20052531224 20051221 EP20040106977 20041224 EP20050112649 20051221

Family:

Publication number	Publication date	Application number	Application date
AR052348 AA	20070314	AR2005P105515	20051222
AU2005248936 AA	20060713	AU20050248936	20051223
BRPI0505628 A	20060919	BR2005PI05628	20051223
CA2531224 AA	20060624	CA20052531224	20051221
CN100591606 C	20100224	CN200510134115	20051226
CN1799982 A	20060712	CN200510134115	20051226
EP1674418 A1	20060628	EP20040106977	20041224
EP1674419 A1	20060628	EP20050112649	20051221
HK1093192 A3	20070223	HK20060113928	20061219
JP2006182566 A2	20060713	JP20050362750	20051216
MXPA05014133 A1	20060623	MX2005PA14133	20051221
NO20056092 A	20060626	NO20050006092	20051221
TH80843 A	20061031	TH20051006100	20051222
TW200640771 A	20061201	TW20050145727	20051222
US2006180402 AA	20060817	US20050318023	20051223
ZA200510435 A	20061227	ZA20050010435	20051222

Probable Assignee: INVENTIO AG

Assignee(s):(std)**:** BAUMGARTNER URS ; INVENTIO AG ; KEISER DANIEL ; SILBERHORN GERT

Assignee(s): INVENTIO AKTIENGESELLSCHAFT

Inventor(s):(std)**:** BAMGARTNER URS ; BAUMGARTNER URS ; KEISER DANIEL ; SILBERHORN GERT ; URS SILBERHORN GERT KEISER DAN ; URS BAUMGARTNER ; GERT SILBERHORN ; DANIEL KEISER

Inventor(s): SILBERHORN GERT KEISER DANIEL BAUMGARTNER URS

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; RICHES MCKENZIE AND HERBERT LLP; KANAYAMA MASATAKA; TSUBOKURA MICHIAKI; OSAKI KATSUMASA; KAWAGUCHI YOSHIO; ONO MAKOTO; BUTZEL LONG, DOCKETING DEPARTMENT; BUTZEL LONG DOCKETING DEPARTMENT

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

International class (IPC 8–9): B66B11/04 B66B1/06 B66B1/34 B66B11/08 B66B7/06 F16G1/00 F16G1/28 F16H7/02 G08C19/00 H01R35/02 H01R39/64 H01R41/00 H02G11/00 (Advanced/Invention); B66B1/34 B66B11/04 B66B7/06 F16G1/00 (Core/Invention)

International class (IPC 1–7): B66B1/34 B66B11/08 B66B7/06 B66B7/08 F16G1/00

CPC: B66B1/34 B66B1/3415 B66B1/3446 B66B7/06 B66B7/062 B66B7/064

European class: B66B1/34 B66B1/34B B66B1/34B4 B66B7/06 B66B7/06A B66B7/06B L66B1/34B L66B1/34B4

US class: 187/255

Classification Explorer

Cited documents: WO04035913 A1, WO04035913, US6193016 BA, US5435417 A, US5351530 A, US5212982 A, US2248825 A, US2004216959 AA, US2004026177 AA, US2003121729 AA, JP11079574 A2, EP1344959 A2, EP0490838 A1, DE10232965,

Forward Citations: WO15162263, WO10057797, WO10052075, US9385447, US8789658, US8677726, US8640828, US7661514, US2013157497, US2011226563, KR200448729, JP5600683, JP2012508679, EP1886961, EP1886960, EP1886959, EP1886958, EP1886957, DE202008001786,

Abstract:
Source: US2006180402A An installation, such as an elevator installation, has a belt−like drive apparatus driven by friction couple with a drive pulley. The drive apparatus has at least one electrically conductive element extending in a longitudinal direction of the drive apparatus. During operation of the installation, a contact apparatus contacts the at least one electrically conductive element of the moving drive apparatus for transmission of signals and/or electrical energy.

33) Family number: 32785913 (OA2945A) © PatBase

Title: SYSTEME DE RACCORDEMENT ET DE FIXATION D'ELEMENTS DE JONCTION FLEXIBLES ET DE CONDUCTEURS ELECTRIQUES. SYSTEM WIRING AND FIXING ELEMENTS JUNCTION FLEXIBLE AND ELECTRICAL CONDUCTORS. (Machine translation)

Priority: OA19680053440 19681202

Family:

Publication number	Publication date	Application number	Application date
OA2945 A	19701215	OA19680053440	19681202

Probable Assignee: PASBRIG MAX

Assignee(s):(std)**:** PASBRIG MAX

Assignee(s): MAX PASBRIG

International class (IPC 8–9): F16G11/10 H01R4/52 (Advanced/Invention); F16G11/00 H01R4/52 (Core/Invention)

International class (IPC 1–7): F16G11/10 H01R4/52

CPC: F16G11/106 F16G11/108 H01R4/52 F16G11/12

European class: F16G11/10 H01R4/52

Classification Explorer

Abstract:
Source: OA2945A [Source: Claim 1] ***** WARNING: OCR DATA – DESCRIPTION AND CLAIMS MAY OVERLAP *** *** Please email the Publication Number to Patbase@rws.com of any affected text for review ***** RE SUMS Systeme de raccordement et de fixation amovibles d'elements de jonction flexibles et de conducteurs electriques, oii une piece de serrage a ressort, guidee dans une chambre d'un boitier, verrouille, entre elle meme et la paroi de la chambre, 1'element 5 de jonction ou le eonducteur electrique, et presentant, isolement ou en combinaison, les caracteres inventifs suivants: 1. la chambre est formee par la rencontre de deux alesages se rejoingnant a angle aigu, grace a quoi le ressort qui maintient oscillante la piece de serrage est guide dans un des alesages, 10 et 1 'element de jonction, ou le conducteur electrique, dans l'autre alesage. / 2, le ressort qui sollicite la piece de serrage est un ressort a boudin enroule en cone, et a une extremite duquel est accorche la piece de serrage, qui presente une queue a elargissement. 15 5. Pour le deverrouillage ou l'introduction d'un element de jonction, on prevoit un bouton de commande mobile, au moyen duquel la piece de serrage peut etre rappelee en arriere malgre le ressort a bou– din annexe. 4. Pour s'assurer contre une liberation imprevue, 1'auto–verrouilla– 20 ge du bouton de commande se fait sous l'action d'un ressort et/ ou d'un aimant, dirige transversalement a la force du ressort a boudin annexe a la piece de serrage, et le bouton de commande est maintenu par une fermeture a farce ou de forme. / 5 5. Un dispositif tendeur est fixe amovible, avec des moyens de fixation de 1'element de jonction sortant de la chambre qui renferme 25 la piece de serrage. 6. le boitier presente une fente ouverte en permanence, ou pouvant etre masquee, et qui s'etend de 11exterieur jusqu'a la chambre renfermant la piece de serrage., 7. le systeme constitue un tendeur pour ceinture de securite, tandis que, dans une chambre de large section transversale rec– tangulaire, plusieurs pieces de serrage sont rangees les unes a cote des autres, et bloquent la ceinture de securite en auto– verrouillage. – 8. le col de la piece de serrage est articule mobile sur un coulisseau qui glisse dans l'alesage ou se trouve le ressort, et est fixe au bouton de commande. 9. Pour le raccordement de deux elements de jonction, deux alesages d'ecartement angulaire de 180 degrees conduisent dans la chambre ou est place un ressort a boudin a spires en double cone, et dont les extremites portent chacune une piece de serrage; au moins une fente longitudinale est menagee dans la gaine du boitier, et un bouton de commande peut s'y deplacer. 10. Dans le systeme correspondant a l'alinea 3» la queue de la piece de serrage est saisie par l'extremite, coudee en noeud coulant, d'un fil guide par une fente vers le bouton de commande. / 11. Dans le systeme conforme a l'alinea 1, il y a deux alesages opposes, a l'extremite de l'alesagui recoit le ressort; un crochet y est ancre par son extremite, et l'extremite du crochet S en saillie a l'interieur de l'alesage, sert de siege de "butee pour le ressort. / 11. Pans le systeme conforme a 11 alinea 9, le boitier presente deux fentes diametralement opposees et s'etendant jusqu'a la chambre qui recoit le ressort a compression, et l'alesage contient une piece de guidage a ergots faisant saillie exterieurement par la fente, et aux extremites exterieures desquels sont montes les elements de commande. z 13. ""ans le systeme conforme a l'alinea 8, a l'extremite de la queue de la niece de serrage, on a prevu une broche–support trans– versale a cette queue, et qui est mobile, articulee dans une gorge du coulisseau. / 14. bans le systeme conforme a l'alinea 4, le bouton de commande est mobile axialement et basculable dans une entaille de la gaine du systeme, ou la paroi de l'entaille situee dans la direction de la commande de liberation du bouton de commande,.presente des crans profiles encoulisse. / 13. Dans un systeme conforme a 1'alinea 5» le dispositif tendeur comprend un bras de levier se terminant, a une de ses extremites, par une fourchette et, dans sa partie en fourchette, il y a des broches qui sont recues dans lew alesages opposes du boit40ti ou bien dans une broche perpendiculaire a l'axe longitudinal

du boitier present, a une de ses extremites, un oeil dans lequel peut–etre enfoncee une des branches de la fourchette du levier ci–dessus, et dont l'autre extremite est entouree par la seconde branche de la fourchette, profilee a cet effet, 16. Dans le systeme conforme a l'alinea 15» le levier presente une fente ouverte lateralement, dans laquelle peut etre introduit 1'element de jonction, et dans laquelle un systeme de serrage, consistant en un ressort a lame et une piece de serrage, est prevu pour l'element de jonction. 17. Dans le systeme conforme aux alineas 5 et 15, le levier est equipe d'un systeme de serrage comportant un manchon avec un ressort a boudin, une piece de serrage et un bouton de commande. / 18. Dans un systeme conforme a l'alinea 5, le dispositif tendeur pour la fixation du cable, possede un serrage a excentrique ou un appendice a plusieurs enroulements. 19. Dans un systeme conforme a l'alinea 6, une chambre recevant la oiece de serrage dans sa position d'ouverture est prevue a partir de l'extremite de l'alesage interieur retreci, a l'in– terieur du boitier, obliquement par rapport a l'alesage./•' 20. Dans un systeme conforme a l'alinea 6, la surface de pression de la piece de serrage epouse 1'element de jonction, ou a un profil concave, en sorte que l'element de jonction, en etat de verrouillage, ne peut s'echapper lateralement dans la direction de la fente. z 21. D percent ns un systeme conforme a l'alinea 6, la fente est dessinee en labyrinthe, pour interdire a 1'element de jonction en place tout glissement vers l'exterieur. 22. Dans un systeme conforme a l'alinea 6, le boitier consiste en un manchon de section transversale en U, dont le cote ouvert peut etre masque par un couvercle. // 23. Dans un systeme conforme aux alineas 6 et 23» le couvercle glisse dans une paroi du manchon, et un verrou le maintient en position fermee. 24. Dans un systeme conforme aux alineas 6 et 22, la fente tra– 5 verse obliquement le manchon, et le reste de 1 ss alesage est ferme. 25. Dans un systeme conforme a l'alinea 6, il y a un manchon ae recouvrement mobile pour recouvrir la fente laterale. / 26. Dans un systeme conforme a l'alinea 6, pour la fixation d'un element de jonction tendu dans les deux directions, le dispositif 10 est a serrage double ou multiple,ou a chacune des deux extremites d'une chambre traversante, des ressorts sont montes, avec la piece de serrage associee, en direction d'action opposee. / 27. Dans un systeme conforme a 1'alinea 6, il y a un appendice d'arret pour la fixation a un mat ou a quelque autre point 15 fixe. / 28. Dans un systeme conforme a l'alinea 7, une fente d'introduc– tion et une fente de sortie debouchent a angle obtus dans la chambre du tendeur. 29. Dans un systeme conforme a l'alinea 7, un organe de commande 20 se presente comme un coulisseau faisant saillie sur toute la longueur du tendeur, avec des pieces de prise laterales, et les pieces de serrage sont montees mobiles sur le coulisseau, de sorte qu'il y a possibilite de basculage de ces pieces dans un plan perpendiculaire a la surface de la ceinture. 25 30. Dans un systeme conforme a l'alinea 7, les pieces de serrage r sont dessinees en profiles plats, ou, en profil, une tete elargie se raccorde a une surface de contact cannelee tournee vers la ceinture, et qui, au–dela d'une queue plus mince, se termine par une bille de positionnement a l'extremite de la piece de serrage.>– 31. Bans un systeme conforme a l'alinea 7, le tendeur est constitue en fermoir double, avec deux jeux de pieces de serrage,ressorts, fentes d'introduction et de sortie, de sorte que chacune des pieces de la ceinture permet un raccour– cissement et un serrage auto–verrouillant, a moins qu'un jeu de pieces de serrage soit agence a une hamjpe fixee a une piece de la ceinture, et l'autre, a l'autre piece de celle–ci. / 31. Dans un systeme conforme aux alineas 7 et 30, dans chaque jeu de pieces de serrage, la piece du milieu est piriforme, et les pieces, exterieures on un profil plat. 33. Dans un. systeme conforme aux alineas 7 et 30, des bandes de tole mince, coudees, sont accrochees aux queues des pieces de serrage, et sont reliees a un coulisseau de commande mobile sur le cote superieur du tendeur. 34. Systeme de raccordement amovible de plusieurs conducteurs electriques, conforme au premier alinea, caracterise par un certain de nombre de pieces en forme de manchon, placees a certains intervalles les unes des autres, presentant chacune un alesage interieur de part en part, et deux alesages obliques debouchant au voisinage de l'une des ouvertures frontales des alesages interieurs, ainsi qu'un ressort dans chacun de ceux–ci; – par des pieces de serrage fixees chacune aux deux extremites frontales de–' ressorts, qui les pressent contre les ouvertures frontales; – enfin par un domino en matiere synthetique, ou 5 sont loges les corps ou pieces en forme de manchon. 35. Dans un systeme selon le premier alinea, les chambres ren– fermant les pieces de serrage et les extremites des conducteurs electriques que l'on y enfonce, sont montees directement dans le boitier d'un appareil electrique. / 10 36. Dans un systeme de raccordement amovible de plusieurs con– ducteurs electriques, conforme aux premier alinea, plusieurs corps conducteurs en forme de plaque, qui presentent des alesages, des chambres, des ressorts et des pieces de serrage, sont separes electriquement les uns des autres par des plaques en matiere syn– 15 thetique, et saisie dlun seul tenant par un cadre commun en matiere synthetique; les corps conducteurs plats relient des alesages interieurs determines aux pieces de serrage individuelles, conduisant dans le bloc les unes avec les autres. S 37. Dans un systeme de raccordement amovible de plusieurs conduc– 20 teurs electriques, conforme au premier alinea, le s alesages inte– rieurs contenant les ressorts vont d'une paroi laterale d'un bloc en un materiau conducteur, jusqu'a la paroi laterale oppcsee. / 38. Dans un systeme conforme aux alineas 1 et 36, le bloc con– ducteur e and t de forme cylindrique, et les alesages obliques sortent 25 de la surfacede sa gaine • 39. Systeme conforme a l'alinea 36, ou, dans les corps en forme de plaque, des fentes courent parallelement aux alesages inte– rieurs, qu'elles coupent; une tige de commande des ressorts et des pieces de serrere traversant ces corps de part en part a travers 1 'ensemble des alesages interieurs, y coulisse. 40. Dans un systeme selon le premier alinea, un dispositif de commande est constitue par;une source d'un agent pressurise, par le moyen duquel un courant de pression est cree dans l'alesage ou sont les ressorts, et fait reculer la piece de serrage malgre le ressort de celle–ci. ‘ 41. Dans un systeme conforme a 1'alinea 40, la chambre, commune a l'alesage interieur et a l'alesage oblique, laquelle contient la piece de serrage, communique d'un cote avec une ouverture d'amenee servant \ l'admission de l'agent de compression, et de l'autre cote, vec un event servant a 1'evacuation du meme agent; un retreo. ssement formant buse de venturi est place dans la direction du courant, en avant de la chambre., 42. Dans un system ' conforme a l'alinea 39 pour le raccordement de faisceaux de cables ou autres extremites de fils multiples, les chambres sont reliees par des canaux de facon a rendre pos– sible la commande simultanee d'un grand nombre de pieces de commande • /" 43. Dans un systeme conforme a l'alinea 39, les extremites des fils sont saisies dans des fiches en gouttiere ou en cuiller, qui sont introduites dans les chambres, et maintenues en auto–verrouil– lage par les pieces de serrage. / 44. Systeme de contact electrique conforme au premier alinea, ou, d ns la: ongueur de la chambre et dans la paroi de celle–ci, il y a une "bande conductrice electrique sur laquelle est raccordement electrique a coupler. 45ss ysteme conforme a l'alinea 44» ou, dans une

de serrage en domino, il y a deux rangees voisines de chambres dans le coprs commun, et les chambres respectivement opposees elon un angle aigu ouvert dans la direction d1introduction, tandis que les bandes conductrices ont une forme generale en V et reliant le s/une s avec les autres les chambres qui. se font;6, Dans un systeme conforme a l'alinea 44, l'alesage oblique par rapport a l'axe de la chambre qui recoit la piece de serrage, est une chambre fermee vers l'exterieur, pour recevoir 1'extremite introduite du conducteur. 47. Dans un systeme conforme a l'alinea 44, une levre estampee dans la bande conductrice, a l'entree de la chambre suivante, recoit l'extremite du conducteur. 48. Dans ce meme systeme, la bande conductrice est tiree dans la paroi de la chambre suivante.y 49. Dans ce meme systeme, la piece de serrage presente un alesage transversal a 1'extremite introduite du conducteur, et un element de commande peut y etre introduit pour deverrouiller l'extremite du conducteur. 50. "Dans un systeme,–elon l'alinea. 49» l'element de commande est une qui s'etend dans 1'alesage de la piece de serrage et est guidee dans les fentes dirigees selon l'axe de la chambre conte–nant la piece de serrage. z 5'1. "Dans un systeme conforme a l'alinea 45» tous les corps de serrage de chaque rangee, avec leurs alesages, sont enfiles, avec un certain intervalle, chacun sur une tige; la tige en matiere synthetique presente des renflements pour le maintien des intervalles des pieces de serrage, et elle est maintenue rotative dans les nieces de serrage. z 52. Dans un systeme conforme a l'alinea 51, il y a un coulisseau glissant dans chacune des entailles du corps de serrage en domino, qui agit sur les deux tiges portant les pieces de serrage, s'eten– dant,avec un certain intervalle entre elles, dans la direction longitudinale du domino de raccordement, de sorte qu'en manoeuvrant dans une premiere direction, les pieces de serrage qui s'y rappor–tent, sur le premier cote du domino, sont mises en jeu; dans l'autre direction, ce sont les pieces de serrage opposees. 55. Dans un systeme conforme a l'alinea 44, la bande conductrice est logee dans une rainure de la paroi de sa chambre, 54. Dans yn systeme conforme a l'alinea 44» la bande conductrice presente une creusure dirigee dans la longueur de l'extremite du conducteur, qu'elle recoit. BUGNION – UBAF S. A. B. P. 4038 NLONGKAK– YAOUNDE/CAMEROUN [Source: Claim 1] ***** WARNING: OCR DATA – DESCRIPTION AND CLAIMS MAY OVERLAP *** *** Please email the Publication Number to Patbase@rws.com of affected Any text for review ***** RE SUMS removable connection and fastening Systeme flexible junction Elements and electric conductors, OII a clamping part has spring, guided in a chamber of a housing, locks, even between her and the wall of the bedroom, 1 'element of junction 5 or eonducteur electric, and presenting, isolation or in combination, the following inventive characters: 1. the chamber is formed by the meeting of two bores rejoingnant a sharp angle, thanks which the spring that holds the swing tightening guide is room in one of the bores, 10 and 1 'element junction, or the electric conductor in the other bore. / 2, the spring biasing the clamping pieces is a spring coil is wound into cone, and at one end of which is accorche the clamping pieces, which presents a tail widening. 15 5. For the unlocking or the introduction of an element of junction, it provides for a mobile command button, by which the clamping pieces can be called backward despite the spring has button Din Annex. 4. To insure against unforeseen release, 1'auto verrouilla– 20–ge control knob is under the action of a spring and / or a magnet, runs transversely to the spring force has boudin Annex to the clamping pieces, and the button is held by a closure farce or form. / 5 5. A tensioning device is detachably fixed, with 1'element fixing means outgoing junction of the chamber 25 which contains the clamping part. 6. the case presents a permanently open slot, or can be masked, and that extends to 11exterieur until the chamber enclosing the clamping pieces. 7. The system is a tensioner seat belts, while in a wide cross–section rectangular room, more clamping parts are rows beside each other, and block the self locking in safety belt. – 8. the collar of the clamping pieces is articulated mobile on a slide that slides into the bore or is spring, and is fixed to the control knob. 9. For the connection of two Elements junction, two bores angular spacing of 180 degrees result in the room or is instead a spring coil has a double cone turns, each of which carry the ends a clamping pieces; at least one longitudinal slot is provided in the sheath of the case, and a control button can move it. 10. In the system corresponding to paragraph 3 'tail of the clamping pieces is entered by the extremity, bent in the noose of a guide wire through a slot to the button. / 11. In the system conforming to paragraph 1, there are two bores opposed, at the tip of the alesagui receives the spring; a hook is anchored there by its extremity, and the extremity of the S hook protruding on the inside of the bore, serves as headquarters of "Thrust for the spring. / 11. Pans the system conforms to 11 paragraph 9, the case presents two diametrically opposed slots and extending up to the room which receives a compression spring, and the bore contains a guide part has pins projecting externally through the slot, and External ends of which are mounted the elements of order. 13. z " 'years the system conforms to paragraph 8, at the tip of the tail of the clamping niece, a support pin was expected transverse to the tail, and is movable, articulated in a groove of the slide. / 14. bans the system conforms to paragraph 4, the control knob is axially movable and tiltable in a notch of the sheath of the system, or the wall of the notch situated in the direction of the release of control button order.presente encoulisse profiles of notches. / 13. In a system according to 1'alinea 5 »the tensioning device comprises a lever arm terminating, at one of its ends, by a fork and, in its part fork, there are pins which are received in lew BORE opposed the boit40ti or in a spindle perpendicular to the longitudinal axis of the housing present, has one of its ends, a look–in which can be pushed one of the branches of the range of the above lever, and whose other end is surrounded by the second leg of the fork, contoured thereto, 16. in the system conforms to paragraph 15 "lever presents a laterally open slot into which can be introduced 1'element junction, and which a clamping system consisting of a leaf spring and a clamping pieces is planned for the joining element. 17. In the system complies with paragraphs 5 and 15, the lever is fitted with a clamping system having a sleeve with a spring roll, a clamping pieces and a command button. / 18In a system conforming to paragraph 5, the tensioning device for fixing the cable, possesses a clamping eccentric or appendix has more windings. 19. In a system conforming to paragraph 6, a chamber receiving the clamping oiece in its open position is planned from the extremity of the bore inside shrunk, has the positive terieur the housing obliquely relative to the bore. / • '20. in a system conforming to paragraph 6, the pressure surface of the clamping pieces wife 1'element junction, or has a concave profile, so that the element junction in the locked state, can not escape laterally in the direction of the slot. z 21. A pierce ns a system conforming to paragraph 6, the slot is comic labyrinth, to prohibit 1'element a junction up slipping outwards. 22. In a system conforming to paragraph 6, the case is a sleeve of U cross–section, the open side may be mask by a cover. // 23. In a system complies with paragraphs 6 and 23 "cover slips into a sleeve wall, and a latch holding it in closed position. 24. In a system complies with paragraphs 6 and 22, the work– 5 slot obliquely pays the sleeve,

and the remaining 1 ss bore is closed. 25. In a system conforming to paragraph 6, there is a recovery ae mobile sleeve for covering the lateral slot. / 26. In a system conforming to paragraph 6, for fixing a connecting element stretched in both directions, the device 10 is a double or multiple clamping, or each of the two ends of a through room, springs are mounted, with the associated clamping pieces in the direction of opposite action. / 27. In a system conforms to 1'alinea 6, there is a stop appendix for fixing a mat or some other fixed point 15. / 28. In a system conforms to paragraph 7, an introduction slit and an exit slit open at an obtuse angle in the chamber of the tensioner. 29. In a system conforms to paragraph 7, a controller 20 is presented as a slide projecting over the length of the tensioner, with parts of lateral grip, and clamping parts are mobile montees on the slide, so that there is possibility of these parts rocking in a plane perpendicular to the surface of the belt. 25 30. In a system conforms to paragraph 7, the r clamping parts are dessinees flat profiles or in profile, an enlarged head is connected to a contact surface cannelee tour to the belt, and that, over and beyond a thinner tail ends with a positioning ball at the tip of the clamping pieces and gt; –. 31. Bans a consistent system to paragraph 7, the tensioner is double clasp with two clamping parts of games, springs, insertion slots and output, so that each of the pieces belt allows a shortening and a self–locking clamp, unless a set of clamp parts or agency a fixed hamjpe has a room of the belt, and the other to the other pieces of it. / 31. In a system complies with paragraphs 7 and 30, in each set of clamping pieces, the middle room is pear–shaped, and the parts, External is a flat profile. 33. In a. system complies with paragraphs 7 and 30, strips of thin sheet metal, cubits, hang on the tails of the clamping parts, and are connected to a mobile control slide on the upper side of the stretcher. 34. removable terminal Systeme several electrical conductors, according to the first paragraph, characterized by a certain number of sleeve–like parts placed at intervals from one another, each presenting an interior bore through and through, and two oblique bores opening adjacent one of the end openings of the inner bores, and a spring in each thereof; – By clamping parts fixed to each two ends de– 'springs, which press against the front openings; – Finally, a domino in synthetic material, or 5 boxes are the body or sleeve shaped parts. 35. In a system according to the first paragraph, the encounter bedrooms closing clamping parts and the ends of electrical conductors which are inserted therein, are mounted directly in the housing of an electrical device. / 10 36. In a removable connecting system of several con– electrical conductors, comply with the first paragraph, more conductive plate–shaped body, which have bores, rooms, springs and clamping parts are electrically separated the each other by plates in matters syn– 15 thetic and seizure dlun one piece by a common framework synthetic material; flat conductive bodies connecting bores Interior determined individual clamping parts, resulting in the block with each other. S 37.In a removable connecting system of several electrical conductors 20 ers, according to the first paragraph, the s BORE inte– laughing containing the springs range from a side wall of a block of conductive material, up to the side wall oppcsee. / 38. In a system complies with paragraphs 1 and 36, the conductor block e t and cylindrical, and obliques BORE 25 out of its sheath surfacede 39. • System conforms to paragraph 36, or, the plate–shaped body, slits run parallel to the bores inte– laughing, they intersect; a control rod springs and parts of serrere through the body from side to side through one set of internal bores, slide it. 40. In a system according to the first paragraph, is a control device is by; a source of a pressurizing agent, by means of which a pressure is created in the current boring or are the springs and alleviates the room clamping despite the spring thereof. '41. In a system conforms to 1'alinea 40, the room, the municipality bore interior and the oblique bore, which contains the clamping pieces, communicates on one side with an opening for people brought \ l admission of compression agent, and on the other side, ith an event for 1'evacuation has the same agent; a retreo. ng the venturi nozzle is placed in the current direction, in front of the chamber. 42. In a system 'in conformity to paragraph 39 for connecting cables or other extremities son multiple beams, the rooms are connected by channel way to make possible the simultaneous control of a large number of control rooms • / "43. in a system conforms to paragraph 39, the ends of the son are entered in sheets or in gutter spoon, which are introduced in the rooms, and maintained self–locking by the clamping pieces / electrical contact 44. System according to the first paragraph, or, for the ns. ength of the room and into the wall thereof, there is an "electrical conductive strip on which electrical connection has coupling. 45 ss ystem conform to paragraph 44 ", or in a clamping domino, there are two neighboring rows of rooms in the common coprs, and the rooms OPPOSING ccording respectively an acute angle open in the direction d1introduction while conductive strips have a general V–shape and connecting the s / s with a other rooms that. are; 6 In a system conforms to paragraph 44, the oblique bore relative to the axis of the chamber that receives the clamping room is an enclosed room to the outside, to receive 1'extremite introduced the driver. 47. In a system conforms to paragraph 44, a lip estampee in the conductive tape at the entrance to the next room, receives the extremity of the driver. 48. In this same system, the conductive strip is tiree in the wall of the room suivante.y 49. In this same system, the clamping coin depicts a cross bore has introduced 1'extremite driver, and a control element can will be introduced to unlock the extremity of the driver. 50. "In a system, –elon the paragraph. 49" control element is one that extends in 1'alesage the clamping pieces and is guided into the slots being managed according to the axis of the tale room.. – ing clamping pieces z 5'1 "in a system conforms to paragraph 45" all clamp bodies of each row, with their bores, are strung with a certain interval, each on a rod; the stem synthetic material present bulges for the maintenance intervals of the clamping parts, and is kept rotating in the clamping nephews. z 52. In a system conforms to paragraph 51, there is a slide sliding in each of the slots of the clamp body domino, which acts on the two rods supporting the clamping parts, will extend ever, with a certain interval between them in the longitudinal direction of domino connection, so that maneuvering in a first direction, the clamping parts therein tent rapporteurs, on the first side of the domino, are brought into play; in the other direction, it is the opposed clamping parts. 55. In a system conforms to paragraph 44, the conductive strip is housed in a groove in the wall of his room 54. yn system conforms to paragraph 44 "the conductive strip presents a recess directed in length the extremity of the driver, she receives. BUGNION – UBAF S. A. B. P. 4038 NLONGKAK– YAOUNDE / CAMEROON

0) US2015291361A – BELT ATTACHMENT AND SYSTEM

34) Family number: 60560509 (US2015291361A) © PatBase

Title: BELT ATTACHMENT AND SYSTEM

Priority: US20140977207P 20140409 US20150661659 20150318 WO2015US24496 20150406 US20160001686 20160120

Family:

Publication number	Publication date	Application number	Application date
CA2945133 AA	20161005	CA20152945133	20150406
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US9248970 BB	20160202	US20150661659	20150318
WO15157164 A1	20151015	WO2015US24496	20150406

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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 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

International class (IPC 8–9)**:** B65G15/30 B65G15/52 B65G15/60 B65G17/12 B65G17/14 B65G17/16 B65G17/26 B65G17/30 B65G17/42 B65G17/44 B65G37/00 B65G39/09 B65G39/20 F16C27/06 F16G3/00 F16G3/14 (Advanced/Invention)

CPC: B65G17/42 B65G17/12 B65G17/14 B65G17/30 B65G15/52 B65G37/005

US class: 1/1 198/617 198/688.1 198/844.1

Classification Explorer

Cited documents: US7131532 BB, US7051879 BB, US6896125 BB, US6615974 BB, US6439376 BA, US6321904 BA, US6053308 A, US5881863 A, US5792484 A, US5626220 A, US5529168 A, US5425679 A, US4842127 A, US4832183 A, US4736832 A, US4286827 A, US4198875 A, US3831358 A, US3788451 A, US3787102 A, US3712357 A, US3659472 A, US3580388 A, US3537571 A, US3093005 A, US2916136 A, US2823789 A, US2752766 A, US2126704 A, US2008010785 AA, JP2000314440 A2,

DE202011002846 U1

DE102011011557 B3

Forward Citations: WO17108434,

Abstract:
Source: US2015291361A Disclosed herein is a belt assembly including a flexible belt with an improved belt attachment. The belt attachment includes two crossbars spaced along the length of the belt. The crossbars retain bearings that allow predetermined movement in six degrees of freedom. The crossbars are connected by a rigid body that attaches to the bearings. Implements that are attached to the rigid body are simply supported but restrained in pitching rotation.

0) GB1510593A – MONO–CABLEWAYS

35) Family number: 1193067 (GB1510593A) © PatBase

Title: MONO–CABLEWAYS

Priority: CH19750001194 19750131

Family:

Publication number	Publication date	Application number	Application date
AT348015 B	19790125	AT19760000597	19760128
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IT1053483 A	19810831	IT19760047884	19760130

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International class (IPC 8–9)**:** B61B11/00 B61B12/12 (Advanced/Invention); B61B12/00 (Core/Invention)

International class (IPC 1–7)**:** B61B11/00 B61B12/02 B61B12/12 B61B7/04 F16G11/00 F16G11/06

CPC: B61B12/12

European class: B61B12/12

Classification Explorer

Abstract:
Source: GB1510593A 1510593 Cable clamps MATHIAS STREIFF AG 30 Jan 1976 [31 Jan 1975] 3737/76 Heading D1T [Also in Division B7] A cable clamp assembly has a U–shaped clamp 1 in which is a saddle–shaped clamping element 4, the cable 9 being gripped therebetween. The clamp 1 may have ribs 18 that fit into the helical grooves between the individual wire strands. Screws 20 compress the cable 9 between the clamp 1 and the clamping element 4. This compression may be via springs to compensate for variations in the diameter of the cable under load.

0) US3921536A – CABLE GRIP TESTER

36) Family number: 1202363 (US3921536A) © PatBase

Title: CABLE GRIP TESTER

Priority: US19750545479 19750130

Family:

Publication number	Publication date	Application number	Application date
US3921536 A	19751125	US19750545479	19750130

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Assignee(s): MARINE MIDLAND BANK NA

Inventor(s):(std)**:** SAVAGE PHILLIP D

International class(IPC 8–9)**:** B61B12/12 F16G11/10 (Advanced/Invention); B61B12/00 F16G11/00 (Core/Invention)

International class(IPC 1–7)**:** B61B12/12 B61B7/20 F16G11/00

CPC: B61B12/127 F16G11/048

European class: B61B12/12D F16G11/10

US class: 104/202 104/209

Classification Explorer

Cited documents: US3871304 A, US3785296 A, US3714904 A, US3610164 A, US3605632 A, US3585941 A, US3394661 A,

Forward Citations: US4936136, CN104354703, CN103693048, CN103693048,

Abstract:
Source: US3921536A A grip tester adapted for testing cable grips for a chair lift has a sprocket wheel mounted in proximity to the cable. The sprocket wheel has four axially extending notches across the perimeter of the wheel, each notch being profiled to receive a portion of the grips adjacent the cable–gripping portion of the grip as the grips pass by on the cable, the sprocket wheel being rotated a quarter turn by each grip. On one side, the sprocket wheel has coaxially secured to it a projecting two–tooth first member of a two part torque–friction device, the second four–tooth member being non–rotatably secured to a fixed support. The teeth of the friction device extend radially and are slope–sided. The non–rotatable member is adjustably spring–biased toward the first member for engagement of the respective teeth sides. A speed sensing wheel is biased against the top of the cable and each grip has a ramp–like track portion over which the wheel may travel. The wheel drives a tachometer generator which is electrically connected to a tachometer meter for operating a switch in the motor drive circuit of the lift for shutting off the lift when the tachometer senses a slowing of the wheel as it passes over the track portion of the grip.

0) US2015285337A – GRIPPING APPARATUS

37) Family number: 56649412 (US2015285337A) © PatBase

Title: GRIPPING APPARATUS

Priority: GB20140006207 20140407 US20140246922 20140504 WO2015GB51059 20150407

Family:

Publication number	Publication date	Application number	Application date
EP3129676 A1	20170215	EP20150722740	20150407
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US9453555 BB	20160927	US20140246922	20140504
WO15155516 A1	20151015	WO2015GB51059	20150407

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Inventor(s): STEVEN FERRY ; TERENCE RAYMOND DINGLEY

Agent(s): ELSWORTH DOMINIC STEPHEN; HARGREAVES ELSWORTH

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

International class (IPC 8–9): F16G11/04 F16G11/10 F16M13/02 (Advanced/Invention)

CPC: F16G11/048 F16M13/027 F16G11/108 F16G11/106 F16G11/10 Y10T24/3969

US class: 1/1 24/136R

Classification Explorer

Cited documents: WO8902994 A1, US8578566 BB, US8001660 BB, US6546600 BA, US6345847 BA, US6003210 A, US593256 A, US4889320 A, US2401418 A, US2013200637 AA, US2011017249 AA, US2003115723 AA, US1165785 A, US1139595 A, GB2378213 A1,

Forward Citations: WO17158544, US9803399, US2015308159, CN105605153,

Abstract:
Source: US2015285337A A gripping device comprises a body having a longitudinal axis and including at least one elongate opening for receiving an elongate element, a gripping element, and means for bringing the gripping element into engagement with an elongate element located in the said opening, wherein the gripping element is mounted for translational movement in a slot having a longitudinal axis, and the longitudinal axis of the slot is set at an acute angle to the longitudinal axis of the opening, and wherein a force component exerted on an elongate element located in the said opening causes the gripping element to move in the slot and towards the elongate element, and wherein said opening is defined by walls and wherein one of the walls includes two intersecting surfaces lying at an angle to one another, the angle between the two surfaces being concave.

0) US2013277182A – PLATE ELEMENT OF A CONVEYOR FOR FORMING AN ASSE...

38) Family number: 51167518 (US2013277182A) © PatBase

Title: PLATE ELEMENT OF A CONVEYOR FOR FORMING AN ASSEMBLED CONVEYING SURFACE

Priority: CH20100001991 20101126 EP20110770998 20111007 WO2011CH00241 20111007 WO2011CH00286 20111125 US20130988871 20130710 US20150926856 20151029

Family:

Publication number	Publication date	Application number	Application date
AU2011334532 AA	20120531	AU20110334532	20111007
AU2011334532 BB	20160825	AU20110334532	20111007
CH704135 A1	20120531	CH20100001990	20101126
CH704136 A1	20120531	CH20100001991	20101126
CN103402896 A	20131120	CN201180056984	20111007
CN103402896 B	20160330	CN201180056984	20111007
DE502011010225 D1	20160825	DE201150010225T	20111007
EP2643245 A1	20131002	EP20110770998	20111007
EP2643245 B1	20160720	EP20110770998	20111007
EP2643246 A1	20131002	EP20110791420	20111125
ES2599159 T3	20170131	ES20110770998T	20111007
JP2013543826 T2	20131209	JP20130540193T	20111007
JP5992431 B2	20160914	JP20130540193T	20111007
KR20130121120 A	20131105	KR20137015235	20111007
TW201235280 A	20120901	TW20110136972	20111012
TW201240895 A	20121016	TW20110143173	20111124
US2013277182 AA	20131024	US20110988889	20111125
US2013284569 AA	20131031	US20110988871	20111007
US2016046445 AA	20160218	US20150926856	20151029
US9254962 BB	20160209	US20110988871	20111007
US9511941 BB	20161206	US20150926856	20151029
WO12068691 A1	20120531	WO2011CH00241	20111007
WO12068695 A1	20120531	WO2011CH00282	20111124
WO12068699 A1	20120531	WO2011CH00286	20111125

Probable Assignee: FERAG AG

Assignee(s):(std)**:** FERAG AG ; HONEGGER WERNER ; STUDER BEAT

Inventor(s):(std)**:** STUDER BEAT ; HONEGGER WERNER

Inventor(s): BEAT STUDER ; WERNER HONEGGER

Agent(s): GRIFFITH HACK; PATENTANWAELTE U RECHTSANWALT WEISS ARAT AND PARTNER MBB; FREI PATENT ATTORNEYS; DE ELZABURU ALBERTO; FUKAMI PATENT OFFICE PC; RANKIN HILL AND CLARK LLP; FREI PATENTANWALTSBUERO AG

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 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 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

International class (IPC 8–9): B65G15/30 B65G17/06 B65G17/08 B65G17/26 B65G17/38 B65G17/40 B65G17/42 B65G17/44 B65G21/20 B65G21/22 B65G39/20 F16G13/10 (Advanced/Invention); B65G21/16 (Advanced/Non–invention)

CPC: B65G17/086 B65G17/44 B65G39/20 Y10T29/49826 B65G15/30 B65G17/066 B65G17/385 B65G21/22

European class: B65G17/06F2 B65G17/08D B65G17/38B B65G21/22 B65G39/20

US class: 1/1 198/838 198/850 29/428

Classification Explorer

Cited documents: WO08092287 A2, WO06069163 A2, WO03089340 A1, WO0234650 A1, WO0027732 A2, WO0015522 A1, US7975838 BB, US7731021 BB, US7275638 BB, US6758328 BB, US6347699 BA, US5911305 A, US5909797 A, US5620084 A, US5076422 A, US5009630 A, US4838412 A, US4640196 A, US4638906 A, US4397145 A, US3952860 A, US3762535 A, US3744618 A, US3550755 A, US3107778 A, US2766635 A, US2646160 A, US2013277183 AA, US2011114456 AA, US2006207470 AA, US2004140181 AA, US2004084288 AA, MC328 A, JP63180617 A2, JP63180617, JP2006199414 A2, JP2006199414, JP2005523219 T2, JP2005523219, JP2004269259 A2, JP2004269259, JP200280117, JP2002529344 T2, JP2002529344, JP2002080117 A2, JP2001139122 A2, JP2001139122, GB734753 A, GB2148827 A1, FR2306907 A1, FR1452213 A, FR1050098 A, FR01452213, EP1975093 A1, EP1902978 A1, EP1864920 A1, EP1666385 A1, EP1655242 A1, EP1437312 A1, EP1352854 A1, EP1321389 A1, EP0976668 A2, EP0870934 B1, EP0680898 A1, EP0355080 A1, EP0297331 A1, EP0218237 A1, DE4312864 A1, DE3410086 A1, DE29806540 U1, DE29516872 U1, DE29516872 U, DE2516996 A1, DE2118232 A1, DE1270498 B, DE1197388 B, DE1194319 B, DE1147896 B, DE10240487 A1, DE10207687 A1,

DE102007054730 A1

DE102006026743 A1

DE10024121 A1,

Forward Citations: WO17185192, WO17085203, USD726954, US9527671, US9475644, US2017197790, US2015158675, TWI550275, FR3024718, EP2877414, CN105465301,

Abstract:
Source: US2013277182A A plate element of a conveyor and a conveyor which comprises a plurality of these plate elements. The plate element comprises a fastening device to fasten the plate element on a conveying element. A first overlapping region with prongs is formed on the element at a first end section. A second overlapping region with a guide base and projections arranged thereon is formed at a second end section which lies opposite the first end section of the plate element. The first overlapping region is complementary to the second overlapping region. The first overlapping region and the second overlapping region form at least a part of the plate conveying surface The projections of the guide base and the prongs are curved. Optionally, the prongs have a trapezoidal cross section. The guide base comprises at least one opening passing through the guide base between the projections.

0) US2007271754A – BELT LACING APPARATUS

39) Family number: 40842911 (US2007271754A) © PatBase

Title: BELT LACING APPARATUS

Priority: EP20070759252 20070323 US20060442037 20060526 WO2007US64792 20070323

Family:

Publication number	Publication date	Application number	Application date
CA2653331 AA	20081125	CA20072653331	20070323
CA2653331 C	20160119	CA20072653331	20070323
DE602007036547 D1	20140618	DE200760036547T	20070323
EP2029912 A2	20090304	EP20070759252	20070323
EP2029912 A4	20110330	EP20070759252	20070323
EP2029912 B1	20140507	EP20070759252	20070323
US2007271754 AA	20071129	US20060442037	20060526
US8028391 BB	20111004	US20060442037	20060526
WO07140044 A2	20071206	WO2007US64792	20070323
WO07140044 A3	20081009	WO2007US64792	20070323

Probable Assignee: FLEXIBLE STEEL LACING CO

Assignee(s):(std)**:** FLEXIBLE STEEL LACING CO ; KOLODZIEJ JAMES M

Assignee(s): FLEXIBLE STEEL LACING CO DOWNERS GROVE ; FLEXIBLE STEEL LACING COMPANY

Inventor(s):(std)**:** KOLODZIEJ JAMES M

Inventor(s): KOLODZIEJ JAMES M DORR

Agent(s): RIDOUT AND MAYBEE LLP; MANITZ FINSTERWALD AND PARTNER GBR; FITCH EVEN TABIN AND FLANNERY

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 LY 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

International class (IPC 8–9): B23P11/00 F16G3/12 F16G3/16 (Advanced/Invention); B23P11/00 F16G3/00 (Core/Invention)

CPC: Y10T24/16 Y10T24/1648 Y10T29/49835 Y10T29/5143 Y10T29/53361 Y10T29/53478 Y10T29/53526 Y10T29/53713 F16G3/16 F16G3/12

European class: F16G3/12 F16G3/16

US class: 156/137 24/31.00R 24/31R 24/34 29/243.51 29/243.510P 29/432.1 29/564.7 29/564.700S 29/782 29/809 29/819

Classification Explorer

Cited documents: US7568269 BB, US6081995 A, US5544801 A, US5170924 A, US5020209 A, US4440336 A, US3686738 A, US3588994 A, US3044074 A, US2255855 A, US1740959 A, US1710894 A, GB2202605 A1,

Forward Citations: WO09006619, US8931155, US8365376, US8132489, US2010319175, US2010122444,

Abstract:
Source: US2007271754A A belt lacer uses a power drive carriage for clinching hook or C–shaped belt lacing elements to a belt end. Optionally, the carriage may be driven in a manual mode or a power mode. A detachable power drive such as from an electric drill may be used for the power mode. The power drive of the carriage may be stopped short of an end wall and a return mechanism may return the carriage to the power drive. A moveable belt support in a hand space position allows for working on the lacing elements and may be shifted to a belt supporting position. The belt clamp exerts a forwardly directed force on the belt as it is being clamped. Face plates or combs may be stored on the belt lacer. A latch secures the face plates against lateral sliding during clinching by clinching rollers on the carriage.

0) US2014226963A – MOTION CONTROL DEVICE

40) Family number: 54080540 (US2014226963A) © PatBase

Title: MOTION CONTROL DEVICE

Priority: NZ20110596986 20111209 WO2012NZ00231 20121210

Family:

Publication number	Publication date	Application number	Application date
CN204044478 U	20141224	CN201290000926U	20121210
EP2802938 A1	20141119	EP20120856052	20121210
EP2802938 A4	20151118	EP20120856052	20121210
EP2802938 B1	20171011	EP20120856052	20121210
US2014226963 AA	20140814	US20120348543	20121210
US9033598 BB	20150519	US20120348543	20121210
WO13085399 A1	20130613	WO2012NZ00231	20121210

Probable Assignee: SYRP LTD

Assignee(s):(std)**:** RYAN BENJAMIN DEREK ; SAPP CO LTD ; SYRP LTD ; THOMSON CHRISTOPHER AYSON

Assignee(s): SYRP LIMITED ; SAPP CO

Inventor(s):(std)**:** B D RAYNE ; C A THOMSON ; RYAN BENJAMIN DEREK ; THOMSON CHRISTOPHER AYSON

Inventor(s): CATHOMSON ; BDRAYNE

Agent(s): DAVIES ELLIOTT; WYNNE JONES LAINE AND JAMES LLP; PERKINS COIE LLP; CREATE IP

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

International class (IPC 8–9)**:** F16G11/10 F16M11/04 F16M11/14 F16M11/18 F16M11/20 F16M11/32 F16M11/42 G03B15/00 G03B17/00 G03B17/56 H04N5/222 (Advanced/Invention)

CPC: G03B15/00 F16G11/103 F16M11/041 F16M11/14 F16M11/18 F16M11/2014 F16M11/32 F16M11/425 G03B17/561

US class: 396/428

Classification Explorer

Cited documents: WO11147434 A1, WO05013195 A2, US6503163 BA, US5225863 A, US4727390 A, US4625938 A, US4614337 A, US2009309986 AA, US2009136326 AA, US2007054766 AA, US2006181637 AA, KR20110090429 A, DE20214250 U1,

DE202010003198 U1

DE202006014388 U1

Forward Citations: USD786955, USD783077, US9599878, CN104714499, CN104154384,

Abstract:
Source: US2014226963A Described herein is a motion control apparatus for a camera and methods of use of the apparatus. The apparatus includes a camera attachment and a linear movement assembly operatively associated with a drive mechanism. This configuration causes linear movement of the drive mechanism and the camera attachment in a linear direction along a line or pathway. The apparatus is used for capturing time delay sequences and allows for operation over any desired path length along the line. Further, the apparatus is portable and can be used with other camera accessories.

0) US2014097554A – MATERIALS, METHODS AND DEVICES FOR JOINING LINE...

41) Family number: 56090136 (US2014097554A) © PatBase

Title: MATERIALS, METHODS AND DEVICES FOR JOINING LINES

Priority: US20120744079P 20120918 US20130031005 20130918 WO2013US60482 20130918 US20160233816 20160810 US20150203182P 20150810 US20160303720P 20160304

Family:

Publication number	Publication date	Application number	Application date
AU2013318148 AA	20140327	AU20130318148	20130918
EP2903772 A2	20150812	EP20130838517	20130918
EP2903772 A4	20160803	EP20130838517	20130918
US2014097554 AA	20140410	US20130031005	20130918
US2016345563 AA	20161201	US20160233816	20160810
WO14047223 A2	20140327	WO2013US60482	20130918
WO14047223 A3	20140612	WO2013US60482	20130918
WO17027631 A1	20170216	WO2016US46417	20160810
WO17027631 A9	20170526	WO2016US46417	20160810

Probable Assignee: OC10 LLC

Assignee(s):(std)**:** OC10 LLC

Inventor(s):(std)**:** DUFOUR DAVE ; FENTON PAUL V ; KJELLMAN SAM ; OHASHI KEVIN L ; STREETER BEN ; STREETER GARY

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; ENGELHARDT AND ENGELHARDT; PANDISCIO MARK J

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

International class (IPC 8–9): A01K91/04 A01K91/047 B23K1/00 B23K23/00 B23K37/00 B29C45/03 B29C45/14 B29C45/53 B29C65/00 B29C65/54 B29C65/70 B65H69/00 B65H69/08 F16G11/00 (Advanced/Invention)

CPC: B29C65/70 A01K91/047 B29C45/036 B29C65/18 B29C65/305 B29C65/4815 B29C65/483 B29C65/4845 B29C65/542 B29C65/568 B29C66/532 B29C66/69 B29C66/83 B29C66/8322 B29C66/861 B29C66/8614 B29L2031/7002 A01K91/04 B29C45/14491 B65H69/02 B65H69/08 B65H2701/355 B29C45/14467 B29C45/14065 B29C45/53 B29C45/531 B29K2105/0097 B29L2031/731 B29C66/71 F16G11/02 F16G11/042 F16G11/14 B29C65/54

US class: 264/261 425/447

Classification Explorer

Cited documents: US8074864 BB, US6789724 BB, US6382496 BA, US6086806 A, US5660317 A, US5288359 A, US3608034 A, US3512223 A, US2995159 A, US2449349 A, US2014097554 AA, US2010159197 AA, US2009315214 AA, US2009155516 AA, US2003000621 AA, JP57029441 A2, FR1320382 A, EP1270485 A1,

Forward Citations: WO17027631, US2015135581,

Abstract:
Source: US2014097554A A hand–held device for joining fishing line segments of monofilament, fluorocarbon, and/or braid lines of similar or differing sizes or combinations or securing hooks or other components to at least one line. The device includes an encasement for orienting the fishing line segments in a closed chamber in close, non–contacting orientation. A material is injected into the closed chamber to encase the lines. This material can be adhesive material or a flowable polymer material having a melting temperature lower than the line segments to be bonded. A pre–formed, flexible polymer sheath is used to retain the line segments in the chamber. A heater heats the polymer sheath within the encasement to allow the polymer to flow and encase the line segments

without melting the line segments. Bonding of the line segments can be achieved without melting, abrading, compressing, or impairing the integrity the line segment(s) to be encased.

0) US2011009219A – SYNCHRONOUS FLAT BELT DRIVE

42) Family number: 43644407 (US2011009219A) © PatBase

Title: SYNCHRONOUS FLAT BELT DRIVE

Priority: DE200810018759 20080221 EP20080734439 20080327 WO2008DE000510 20080327 WO2008DE00510 20080327

Family:

Publication number	Publication date	Application number	Application date
AU2008351286 AA	20090827	AU20080351286	20080327
CA2712145 AA	20090827	CA20082712145	20080327
CA2712145 C	20160308	CA20082712145	20080327
DE102008018759 A1	20090827	DE200810018759	20080221
DE502008008419 D1	20121213	DE200850008419T	20080327
EP2245338 A2	20101103	EP20080734439	20080327
EP2245338 B1	20121017	EP20080734439	20080327
GB201013876 A0	20100929	GB20100013876	20080327
GB2470848 A1	20101208	GB20100013876	20080327
IN06199DN2010 A	20110617	IN2010DN06199	20100901
JP2011512500 T2	20110421	JP20100547034T	20080327
JP5463301 B2	20140409	JP20100547034T	20080327
MX2010009214 A1	20110222	MX20100009214	20080327
MY152209 A	20140829	MY20100003939	20080327
RU2010138573 A	20120327	RU20100138573	20080327
RU2461754 C2	20120920	RU20100138573	20080327
US2011009219 AA	20110113	US20080735604	20080327
US8979689 BB	20150317	US20080735604	20080327
WO09103253 A2	20090827	WO2008DE000510	20080327
WO09103253 A3	20091203	WO2008DE000510	20080327
WO09103253 A4	20100121	WO2008DE00510	20080327
ZA201005781 A	20110831	ZA20100005781	20100813

Probable Assignee: DIERL LUDWIG DIPL ING

Assignee(s):(std)**:** DIERL LUDWIG ; DIRL LJUDVIG ; LUDWIG DIERL

Assignee(s): DIERL LUDWIG DIPL ING ; DIERL LUDWIG MR

Inventor(s):(std)**:** DIERL LUDWIG ; DIRL LJUDVIG ; LUDWIG DIERL

Agent(s): DIERL LUDWIG MR; LUDWIG DIERL

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

International class (IPC 8–9): F16G1/00 F16G1/28 F16G3/10 F16G5/20 F16H F16H55/17 F16H55/30 F16H55/36 F16H55/38 F16H7/00 F16H7/02 F16H7/06 F16H7/08 (Advanced/Invention); F16H55/02 F16H55/17 F16H55/36 F16H7/02 (Core/Invention); F16H (Subclass/Invention)

International class (IPC 1–7): F16H7/02

CPC: F16H7/023 F16H55/171

European class: F16H55/17B F16H7/02B

US class: 474/101 474/101P 474/149 474/149S 474/153 474/153S 474/202 474/202S

Cited documents: WO8601570 A1, US8083624 BB, US7914408 BB, US7883437 BB, US7578565 BB, US7488144 BB, US7364522 BB, US6652336 BA, US6510586 BA, US6117034 A, US6070713 A, US5980408 A, US5967924 A, US5437580 A, US5342250 A, US5129865 A, US5119924 A, US5025916 A, US4993996 A, US4643701 A, US4595388 A, US4573953 A, US4568320 A, US4543080 A, US4351636 A, US4261214 A, US4240303 A, US4218932 A, US4194445 A, US4150581 A, US3948110 A, US3851536 A, US3812953 A, US3772930 A, US3642120 A, US3603069 A, US3596043 A, US358258 A, US3577794 A, US3498684 A, US3494214 A, US3436978 A, US3156130 A, US3156126 A, US3151495 A, US3120409 A, US2998871 A, US2724974 A, US251377 A, US2408666 A, US239114 A, US2010331128 AA, US2010143030 AA, US2008132367 AA, US2008058135 AA, US2008011586 AA, US2007111833 AA, US2007105674 AA, US2006194524 AA, US2005096169 AA, US2002176722 AA, US1970763 A, US1683955 A, US1375046 A, US1181175 A, US1144414 A, JPS515435, JP6067505 A2, JP57193445 U1, JP57193445 U, JP51005435 A2, JP2109045 U1, GB843812 A, GB2138534 A1, EP0403818 A2, DE9403404 U, DE9017365 U, DE19836897 C2, DE10052275 A1,

Forward Citations: WO11145017, US9469374, US9267584, US2016061674, US2014123784, CN102939481,

Abstract:
Source: US2011009219A The invention relates to a synchronous flat belt drive, wherein at least one series arrangement of projections (210) has a purely rolling engagement with a series arrangement of apertures on a flat belt (100). The flat belt (100) supports on a pulley (300) only radially, and on a rotation member (200) only tangentially. The generatrix of the series arrangement of apertures is the rolling of a pulley working surface cylinder with projecting projections (210) of a rotation member (200) formed as a face gear. The flat belt (100) is formed of at least a single strip in a layer arrangement of at least one layer, wherein the ends of the individual strips are variously arranged in a layer. An individual strip forms also several layers and is also as an endless strip part of a layer arrangement.

0) US2007212166A – FIXING AND RELEASE SYSTEMS

43) Family number: 52209877 (US2007212166A) © PatBase

Title: FIXING AND RELEASE SYSTEMS

Priority: AU19980002477 19980318 AU1998PP02477 19980318 US20000646741 20000918 US20060543242 20061004 WO1999AU00185 19990318

Family:

Publication number	Publication date	Application number	Application date
IN00750KO2005 A	20070713	IN2005KO00750	20050816
US2007212166 AA	20070913	US20060543242	20061004

Probable Assignee: TELEZYGOLOGY INC

Assignee(s):(std)**:** TELEZYGOLOGY PTY LTD

Assignee(s): TELEZYGOLOGY INC ; TELEZYGOLOGY PTY LIMITED

Inventor(s):(std)**:** RUDDUCK DICKORY

Agent(s): WILMER CUTLER PICKERING HALE AND DORR LLP

International class (IPC 8–9)**:** E04B2/74 E04B2/82 F16B1/00 F16B11/00 F16B13/06 F16B17/00 F16B21/12 F16B5/06 F16L25/00 (Advanced/Invention); E04B2/74 E04B2/82 F16B1/00 F16B11/00 F16B13/06 F16B17/00 F16B21/00 F16B5/06 F16L25/00 (Core/Invention)

International class (IPC 1–7)**:** F16G15/00

CPC: Y10S403/01 F16B5/065 E04B2/7457 E04B2002/7461 E04B2002/7468 F16B5/0657 F16B5/0664 F16L25/0018 Y10T403/4924 Y10T403/593 Y10T403/598

European class: E04B2/74C5C F16B5/06B3F F16B5/06B3H F16B5/06B3J F16L25/00F P04B2/74F P04B2/74F4

US class: 219/600 380/255 403/324

Classification Explorer

Cited documents: US7217059 BA, US6944920, US6872439, US6553321 BB, US6461185 BB, US6450725 BA, US6438954 BA, US6367843 BA, US6244889 BA, US6089253 A, US6084498 A, US5964487 A, US5917726 A, US5910894 A, US5901894 A, US5870914 A, US5831820 A, US5775724 A, US5771742 A, US5715712 A, US5712469 A, US5629662 A, US5600977 A, US5570992 A, US5485733 A, US5482467 A, US5466083 A, US5439310 A, US5387110 A, US5366254 A, US5337459 A, US5254837 A, US5241451 A, US5221171 A, US5203844 A, US5188405 A, US5164154 A, US5160233 A, US5145227 A, US5095417 A, US5077872 A, US5071064 A, US5061112 A, US5014794 A, US4960760 A, US4934885 A, US4929135 A, US4919464 A, US4899131 A, US4855729 A, US4841100 A, US4829767 A, US4806815 A, US4767337 A, US4728217 A, US4705070 A, US4624443 A, US4620428 A, US4602908 A, US4586335 A, US4561136 A, US4559512 A, US4539929 A, US4523356 A, US4518285 A, US4515045 A, US4507115 A, US4453449 A, US4451449 A, US4425117 A, US4382711 A, US4375637 A, US4339853 A, US4223799 A, US4195868 A, US4176250 A, US4096802 A, US4016914 A, US4012813 A, US4006567 A, US3974669 A, US3947930 A, US3940935 A, US3911534 A, US3855827 A, US3745736 A, US3596958 A, US3395555 A, US3334536 A, US3292542 A, US3214832 A, US3134404 A, US3120149 A, US2006012191 AA, US2004104580 AA, US2004003683 AA, US2003019210 AA, US2002113499 AA, US2002040949 AA,

Forward Citations: WO13079070, US9557002, US9464649, US9103150, US2013199015, ES2532748, CN104251028,

Abstract:
Source: US2007212166A A connecting means adapted to releasably fix or release a first element (4) and a second element (5) includes a locking pin (1) which is moveable by remote activation means between a locked position, in which leg (8) expands wall (9) into recess (10), and an unlocked position. The remote activation means may be magnetic, electromagnetic or any other suitable means. There is no permanent material connection between the pin (1) and the remote activation means. A method of fixing or releasing first and second elements by remote activation means is also disclosed. The invention further provides an embodiment where the first element is a first panel and the second element is a second panel. The first panel has means (166 or 169) which co−ordinate with means (165 or 170) on the second panel. A method of manufacturing the first element

includes the steps of depositing discrete amounts of setable material on a surface of the first element and inverting the element to permit the material to set under the influence of gravity. A method of reducing the spacing between first and second elements by remote activation means is also disclosed.

0) US4154427A – RATCHET DEVICE FOR BELTS OR ROPES

44) Family number: 1640737 (US4154427A) © PatBase

Title: RATCHET DEVICE FOR BELTS OR ROPES

Priority: DE19772717157 19770419

Family:

Publication number	Publication date	Application number	Application date
DE2717157 B1	19780914	DE19772717157	19770419
DE2717157 C2	19790517	DE19772717157	19770419
FR2387820 A1	19781117	FR19780012107	19780418
FR2387820 B1	19840413	FR19780012107	19780418
GB1582410 A	19810107	GB19780013656	19780407
SE418384 B	19810525	SE19780003565	19780330
SE418384 C	19810903	SE19780003565	19780330
SE7803565 A	19781020	SE19780003565D	19780330
US4154427 A	19790515	US19780894301	19780407

Probable Assignee: HOFMANN LUDHOF TECHNIK

Assignee(s):(std): HOFMANN L ; HOFMANN LUDHOF TECHNIK

Assignee(s): HOFMANN LUDHOF TECHNIK LUDWIG ; LUDHOF TECHNIK ; LUDWIG HOFMANN LUDHOF TECHNIK 7580 BUEHL ; LUDWIG HOFMANN LUDHOF TECHNIK GMBH AND CO KG ; LUDWIG HOFMANN LUDHOF TECHNIK FA ; FIRMA LUDWIG HOFMANN LUDHOF TECHNIK

Inventor(s):(std): LUDWIG HOFMANN ; HOFMANN LUDWIG ; HOFMANN L

Inventor(s): L HOFMANN ; HOFMANN LUDWIG 7580 BUEHL

International class (IPC 8–9): B60P7/08 (Advanced/Invention); B60P7/06 (Core/Invention)

International class (IPC 1–7): B25B25/00 B60P7/06 B60P7/08 B63B25/24 B66F3/00 F16G11/12

CPC: Y10S24/909 B60P7/083 Y10T24/2175

European class: B60P7/08C1

US class: 24/68CD 24/909 254/223 254/79

Classification Explorer

Cited documents: US3749366 A, US3180623 A, US3175806 A, US3099055 A, US2993680 A, US2889136 A, US2874431 A,

Forward Citations: WO8201351, WO12122218, WO12122218, USD729026, USD681411, USD675498, USD661562, US9799950, US9716310, US9711846, US9634386, US9469239, US9127475, US9061622, US8291552, US7909308, US7874047, US6880810, US5904341, US5426827, US5129626, US4844477, US4823443, US4612686, US4507829, US4199182, US2015128388, US2014061556, US2013326847, US2012227223, US2010000061, US2008104811, US2005087730, US2004202516, GB2148438, FR3046916, FR2407097, EP2353934, EP1948494, EP1948494, EP0042258, EP0042258, EP0042257, EP0042257, DE3031917, DE29615284, DE19544932, CN103889784,

Abstract:
Source: US4154427A A ratchet device is provided for tensioning belts or ropes which are used to secure piece goods during transport by means of trucks, ships, airplanes, etc. The device includes a ratchet housing, a belt tensioning assembly supported in the housing and a manually actuated pivotable lever for actuating the belt tensioning device. The device permits easy and facile adjustment of the belt tension by repeated pivot movements of the lever.

0) WO10142690A1 – CLAMPING DEVICE KLEMMVORRICHTUNG DISPOSITIF D...

45) Family number: 47843362 (WO10142690A1) © PatBase

Title: CLAMPING DEVICE

Priority: EP20090162217 20090608 WO2010EP58026 20100608

Family:

Publication number	Publication date	Application number	Application date
DE112010002351 A5	20120809	DE201011002351T	20100608
DE112010002351 B4	20140430	DE201011002351T	20100608
WO10142690 A1	20101216	WO2010EP58026	20100608

Probable Assignee: SKYLOTEC GMBH

Assignee(s):(std)**:** MEINDL EDWIN ; SCHWINGSHACKL ULRICH ; SKYLOTEC GMBH

Inventor(s):(std)**:** MEINDL EDWIN ; SCHWINGSHACKL ULRICH

Agent(s): ZEITLER GISELHER

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 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 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 PE PG PH PL PT RO RS RU 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

International class (IPC 8–9): A62B1/14 A62B35/00 A63B29/02 F16G11/04 F16G11/10 (Advanced/Invention); A62B1/14 A62B35/00 (Advanced/Non–invention)

CPC: A63B29/02 F16G11/108

European class: A63B29/02 F16G11/04 F16G11/10

Classification Explorer

Cited documents: US3335469 A, FR2880283 A1, FR1159648 A, DE2203800 A1,

Forward Citations: US8578566, US8001660, FR2972936, EP3093050, EP2886164, DE202013011355, DE102015207363,

Abstract:
The invention relates to a clamping device (100). The clamping device (100) comprises a clamping sleeve (101) having a clamping area (104) and a clamping body (102). A guide element (107) can be guided along an inner face of the clamping sleeve (101), wherein the inner face has a cuneiform inner profile in the clamping area (104) in the guiding direction, which cuneiform inner profile tapers along a central axis (M) of the guide element (107). The clamping body (102) is movably supported in the clamping area (104) between the inner face and the guide element (107) in such a way that the clamping body can assume a blocking position, in which the clamping body (102) can be clamped between the inner face of the clamping area (104) and the guide element (107).

0) US5327845A – APPARATUS FOR FASTENING AND ADJUSTING A LINE

46) Family number: 24044863 (US5327845A) © PatBase

Title: APPARATUS FOR FASTENING AND ADJUSTING A LINE

Priority: US19920970619 19921103 US19930061448 19930514 US19960680530 19960709

Family:

Publication number	Publication date	Application number	Application date
US5327845 A	19940712	US19920970619	19921103
US5327847 A	19940712	US19930061448	19930514
USRE35965 E	19981124	US19960680530	19960709

Probable Assignee: COOK PETER

Assignee(s):(std)**:** COOK PETER

Inventor(s):(std)**:** COOK PETER

International class (IPC 8–9)**:** B63B21/08 B63B59/02 F16G11/00 F16G11/10 (Advanced/Invention); B63B21/00 B63B59/00 F16G11/00 (Core/Invention)

International class (IPC 1–7)**:** B63B21/00 B63B21/04

CPC: Y10T24/394 B63B21/08 F16G11/106 B63B59/02

European class: B63B21/08 B63B59/02 F16G11/00 F16G11/10

US class: 114/218 24/134R

Classification Explorer

Cited documents: US5068949 A, US5008981 A, US4998495 A, US4993123 A, US4895094 A, US4887337 A, US4660493 A, US4324193 A, US4278042 A, US4143446 A, US4114553 A, US3678876 A, US3650236 A, US2942315 A, US2573806 A, US248367 A,

Forward Citations: USD601480, US9789937, US9598148, US8857359, US8789485, US8065971, US7992262, US7461827, US7147194, US6640738, US6238067, US5493983, US5408729, US2014374558, US2011132249, US2009276981, US2007080276, US2005167559,

Abstract:
Source: US5327845A An apparatus is provided for fastening a line, such as a line supporting a fender on a marine vessel. The apparatus has a body portion defining an aperture for receiving the line, and a lever coupled to the body portion and defining a passageway between the lever and the body portion for receiving the line passed through the aperture. A biasing mechanism normally biases the lever into engagement with the line extending through the passageway to fasten the line to the apparatus.

0) US2003228807A – AUTOMATIC ELECTRICAL WEDGE CONNECTOR

47) Family number: 29774995 (US2003228807A) © PatBase

Title: AUTOMATIC ELECTRICAL WEDGE CONNECTOR

Priority: JP20040512236 20030605 JP20040512236T 20030605 US20040836079 20040430 US20020165107 20020606 WO2003US18022 20030605

Family:

Publication number	Publication date	Application number	Application date
AU2003238949 AA	20031222	AU20030238949	20030605
BRPI0311532 A	20050412	BR2003PI11532	20030605
CA2485345 AA	20041105	CA20032485345	20030605
CN100341200 C	20071003	CN20038013001	20030605
CN100492767 C	20090527	CN200710084347	20030605
CN101047284 A	20071003	CN200710084347	20030605
CN1659744 A	20050824	CN20038013001	20030605
IN02732CN2004 A	20060210	IN2004CN02732	20041203
JP2005536009 T2	20051124	JP20040512236T	20030605
JP2006304597 A2	20061102	JP20060156365	20060605
JP4129026 B2	20080730	JP20060156365	20030605
JP4129026 B2	20080730	JP20060156365	20060605
MXPA04011305 A1	20050214	MX2004PA11305	20030605
US2003228807 AA	20031211	US20020165107	20020606
US2004203294 AA	20041014	US20040836079	20040430
US6796854 BB	20040928	US20020165107	20020606
WO03105280 A1	20031218	WO2003US18022	20030605

Probable Assignee: HUBBELL INC

Assignee(s):(std)**:** FCI AMERICA S TECHNOLOGY INC ; FCI AMERICAS TECHNOLOGY INC ; FRAMATOME CONNECTORS INT ; MELLO KEITH F ; STELTZER GORDON L ; DOBRINSKI DANIEL D

Assignee(s): FCI ; BURNDY TECHNOLOGY LLC ; HUBBELL INC ; STELTZER GORDON

Inventor(s):(std)**:** GORDON STELTZER ; LEWIS STELTZER GORDON ; MELLO KEITH F ; STELTZER GORDON ; STELTZER GORDON L ; STELTZER GORDON LEWIS ; MELLO KEITH F DOBRINSKI DANIEL ; LEWIS MELLO KEITH F DOBRINSKI ; KEITH F MELLO ; DANIEL D DOBRINSKI ; DOBRINSKI DANIEL D

Inventor(s): GORDON LEWIS STELTZER

Agent(s): BKP GP

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

International class (IPC 8–9): F16G11/00 H01R11/01 H01R11/03 H01R11/09 H01R4/20 H01R4/48 H01R4/50 H01R4/52 H02G1/02 H02G7/02 (Advanced/Invention); F16G11/00 H01R11/00 H01R11/01 H01R4/10 H01R4/48 H01R4/50 H01R4/52 H02G1/02 H02G7/02 (Core/Invention)

International class (IPC 1–7): F16G11/00 H01R11/01 H01R11/03 H01R11/09 H01R4/48 H01R4/50

CPC: Y10T24/3969 H01R4/5083

European class: H01R4/50W

US class: 24/136R 439/783 439/796

Classification Explorer

Cited documents: US6547481 BB, US6146216 A, US6076236 A, US6076236, US5539961 A, US5539961, US4872626 A, US4872626, US4845814 A, US4428100 A, US4428100, US4415222 A, US4407471 A, US2799721 A, US2078051 A, US1801277 A, FR27183000, FR2718300 A1,

Forward Citations: WO08062716, US9059522, US9054446, US9054445, US8984722, US7799996, US7513207, US7070462, US2014170892, US2009298358, US2006102059, US2005118885, US2005115438, GB2419916, CN105932443, CN105580204, CN102515038, CN102515038,

Abstract:
Source: US2003228807A An electrical wedge connector comprising a shell, and a wedge. The shell defines a wedge receiving passage therein. The wedge is shaped to wedge against the shell when inserted into the wedge receiving passage. The wedge has a conductor receiving channel therein for receiving and fixedly holding a conductor in the shell when the wedge is wedged into the shell. The shell has first portion with a first flexure stiffness generating a first clamping force on the wedge when the wedge is wedged in the first portion of the shell. The shell has a second portion with a second flexure stiffness generating a second clamping force on the wedge when the wedge is wedged in the second portion of the shell.

0) WO16162360A1 – CHAIN LINK AND LINK CHAIN MAILLON DE CHAINE ET...

48) Family number: 63735157 (WO16162360A1) © PatBase

Title: CHAIN LINK AND LINK CHAIN

Priority: DE201510206360 20150409

Family:

Publication number	Publication date	Application number	Application date
DE102015206360 A1	20161013	DE201510206360	20150409
WO16162360 A1	20161013	WO2016EP57481	20160406

Probable Assignee: BROSE FAHRZEUGTEILE

Assignee(s):(std)**:** BROSE FAHRZEUGTEILE ; BROSE FAHRZEUGTEILE GMBH AND CO COBURG KG

Inventor(s):(std)**:** HOEPPEL MICHAEL ; LANG FABIAN ; STEGERER MARIO

Agent(s): PATENTANWAELTE MAIKOWSKI AND NINNEMANN

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 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

International class (IPC 8–9): B60R22/03 B60R22/20 F16G13/20 F16G15/12 F16H19/06 (Advanced/Invention)

CPC: F16G13/20 F16H19/0636 B60R22/03

Classification Explorer

Cited documents: US553650 A, US3234698 A, US3153940 A, US2481471 A, US2010181819 AA, US2008199295 AA, US1870244 A, DE4317427 A1, DE19522092 A1, DE10325583 A1,

DE102013001030 A1

DE102009009906 A1

DE102007039680 A1

DE102004036189 A1

DE10103490 A1,

Abstract:
The invention relates to a chain link (1) for a link chain (K) that is flexible in itself. In the case of said link chain, chain links (1) connected to each other are movable in relation to each other and can be locked to each other such that the link chain (K) flexible in itself can be stiffened by locking the chain links (1) to each other. The chain link (1) has at least a first connection segment (101) for the connection to a first chain link and a further second connection segment (111) for the connection to a second chain link. According to the invention, the chain link (1) has a carrier (10) having the first connection segment (101) and has an adjustment part (11), which is supported in such a way that the adjustment part can be moved, preferably slid, in relation to the carrier (10), and which has the second connection segment (111).

0) US3946989A – SLOW DESCENDER INCLUDING FLUID AND MECHANICAL B...

49) Family number: 25093719 (US3946989A) © PatBase

Title: SLOW DESCENDER INCLUDING FLUID AND MECHANICAL BRAKING DEVICES

Priority:

JP19720002264 19721223	JP19720002265 19721223	JP19720226472 19721223
JP19720015150 19720208	JP19720049935 19720522	JP19720226473 19721223
JP19720226572 19721223	US19730360067 19730514	JP19730002265 19721223
JP19730007379 19730118	JP19730015150 19730208	JP19730002264 19721223

Family:

Publication number	Publication date	Application number	Application date
AR199103 A1	19740808	AR19730248151	19730521
BE799795 A	19730917	BE19732052778	19730521
BE799795 A1	19730917	BE19732052778	19730521
BR7303725 A0	19740829	BR19730003725	19730521
CA988476 A1	19760504	CA19730171589	19730515
CH559551 A	19750314	CH19730007217	19730521
DD105393 C	19740420	DD19730170964	19730521
DE2326041 A1	19731129	DE19732326041	19730522
DE2326041 B2	19750220	DE19732326041	19730522
DE2326041 C3	19751002	DE19732326041	19730522
ES415029 A1	19760516	ES19730415029	19730522
FR2185930 A5	19740104	FR19730018389	19730521
GB1433929 A	19760428	GB19730023757	19730518
IN137690 A	19750906	IN1973CA01133	19730515
IT991594 A	19750830	IT19730068482	19730522
JP49009099 A2	19740126	JP19720049935	19720522
JP49085894 A2	19740816	JP19730002264	19721223
JP49085895 A2	19740816	JP19730002265	19721223
JP49096595 A2	19740912	JP19730007379	19730118
JP49103494 A2	19740930	JP19730015150	19730208
PH12401 A	19790201	PH19730014640	19730522
SE382562 B	19760209	SE19730007087	19730518
SE382562 C	19760520	SE19730007087	19730518
US3946989 A	19760330	US19740533686	19741217
ZA7303274 A	19740424	ZA19730003274	19730515

Probable Assignee: TSUDA MASAO NO 12 10 CHUO HONCHO 1 CHOME ADACHI KU TOKYO JAPON

Assignee(s):(std)**:** TSUDA M ; TSUDA MASAO ; MASAO TSUDA

Assignee(s): MASAO TSUDA JA ; TSUDA MASAO TOKIO ; TSUDA MASAO NO 12 10 CHUO HONCHO 1 CHOME ADACHI KU TOKYO JAPON

Inventor(s):(std)**:** TSUDA MASAO ; TSUDA M ; MASAO TSUDA

Inventor(s): TSUDA MASAO TOKIO

International class (IPC 8–9)**:** A62B1/08 A62B1/10 A62B1/12 B66D3/10 B66D5/04 B66D5/16 E06C5/16 F16D51/10 F16D57/06 F16D59/00 (Advanced/Invention); A62B1/10 F16D65/02 (Advanced/Non–invention); A62B1/00 B66D5/00 E06C5/00 F16D51/00 F16D57/00 F16D59/00 (Core/Invention); F16D65/02 (Core/Non–invention); A62B (Subclass/Invention)

International class (IPC 1–7)**:** A62B1/08 A62B1/10 A62B1/12 A62C1/08 B66D5/04 B66F19/00 E06C5/16 F16G1/00 F16H55/36

CPC: A62B1/10 A62B1/12 B66D5/04 F16D51/10 F16D57/06 F16D2065/024

European class: A62B1/10 A62B1/12 B66D5/04 F16D51/10 F16D57/06 R16D65/02B

US class: 182/241 182/5 188/185 188/271 188/290 188/291 188/292 188/65.3 254/391

Classification Explorer

Cited documents: US531567 A, US3760910 A, US3259213 A, US3188052 A, US3172626 A, US2484913 A, US1303460 A, JP51000160 U1, JP37030833 Y1, JP35012794 Y1, CH290412 A,

Forward Citations: WO9302838, WO14117460, WO14080092, WO14080092, WO10121699, WO10031133, WO10012989, WO09034569, WO09034569, WO07098861, WO06066417, US9764172, US9488235, US9422140, US9415973, US9174073, US9151349, US9121462, US8931593, US8893854, US8863898, US8813914, US8800715, US8567562, US8567561, US8556234, US8534420, US8286947, US8245817, US8167090, US8052080, US7097005, US6962235, US6793038, US6745872, US6626265, US6550576, US5850890, US5799753, US5701972, US5664640, US5368281, US5168958, US5060758, US4688659, US4653609, US4640388, US4603759, US4554997, US4499966, US4469196, US4458781, US4448284, US4437546, US4359139, US4157127, US4018423, US2016096048, US2015352380, US2015335924, US2015217151, US2015217150, US2015041253, US2013248291, US2012247879, US2012118670, US2012073904, US2012048651, US2012048646, US2011220436, US2011114907, US2011100755, US2011068311, US2010226748, US2010224448, US2010065373, US2010025157, US2009084631, US2008314685, US2008142296, US2007158139, US2005092557, US2004168855, US2003136610, US2003070873, JP58181200, JP53004700, JP52026584, JP51096200, JP2012519573, GB2362365, GB2304091, GB2259069, GB2140978, FR2998183, FR2654940, FR2623788, FR2623788, FR2304834, EP2190732, EP1329241, DE3429871, DE3028586, DE2911480, DE2528410, DE102011106636, DE102011106635, DE102006009050, CN104667446, CN104436452, CN103316437, CN103316437, CN103127627, CN103127627, CN102698380, CN102698380, CN102294084, CN102215915, AU648588, AU2010223029,

Abstract:
Source: US3946989A A slow descender includes a rope pulley and a braking apparatus which restricts the rotation speed of the rope pulley. The braking apparatus includes a mechanical braking device containing a centrifugal brake which has centrifugal weights, a V−shaped lining part cooperating with the weights, and a speed multiplying gearing device connecting the rope pulley and the centrifugal friction brake. The slow descender further includes an oil hydraulic braking device of the vane pump type or of the inscribed gear pump type.

0) US4258461A – APPARATUS FOR APPLYING BELT FASTENERS TO A BELT...

50) Family number: 1368527 (US4258461A) © PatBase

Title: APPARATUS FOR APPLYING BELT FASTENERS TO A BELT

Priority: CA19790336902 19791003 US19780948971 19781005 WO1979US00788 19790921 US19800207300 19801117 US19800115367 19800125

Family:

Publication number	Publication date	Application number	Application date
AU197951062 A1	19800417	AU19790051062	19790921
AU528509 B2	19830505	AU19790051062	19790921
CA1129185 A1	19820810	CA19790336902	19791003
DE2967344 D1	19850214	DE19792967344	19790921
EP0020503 A1	19810107	EP19790901362	19800422
EP0020503 A4	19810204	EP19790901362	19800422
EP0020503 B1	19850102	EP19790901362	19800422
JP55500766 T2	19801009	JP19790501748T	19790921
US4258461 A	19810331	US19780948971	19781005
US4344213 A	19820817	US19800115367	19800125
US4380109 A	19830419	US19800207300	19801117
WO8000670 A1	19800417	WO1979US00788	19790921
ZA7904988 A	19800924	ZA19790004988	19790920

Probable Assignee: FLEXIBLE STEEL LACING CO

Assignee(s):(std)**:** FLEXIBLE STEEL LACING CO

Assignee(s): FLEXIBLE STEEL LACING COMPANY ; PRAY WINSTON C

Inventor(s):(std)**:** PRAY W ; PRAY WINSTON ; PRAY WINSTON C ; PRAY WINSTON CARLES ; PRAY WINSTON CHARLES

Inventor(s): WINSTON CARLES PRAY

Agent(s): SPRUSON AND FERGUSON; MACRAE AND CO

Designated states: DE FR GB JP

International class (IPC 8–9)**:** B21J15/14 B21J15/32 B23P19/00 B23P19/04 B25B27/14 F16G3/00 F16G3/08 (Advanced/Invention); B23P19/04 B25B27/14 (Advanced/Non–invention); B21J15/00 B23P19/04 B25B27/14 F16G3/00 (Core/Invention)

International class (IPC 1–7)**:** B21D39/00 B23P11/02 B23P19/00 B23P19/04 B23Q3/00 B25B27/14 F16G3/08 F16G3/16

CPC: Y10T24/1632 Y10T29/49915 Y10T29/49972 Y10T29/53709 B21J15/32 Y10T29/49899 Y10T29/53765 Y10T29/5377 F16G3/003 F16G3/08

European class: B21J15/14 B21J15/32 F16G3/00B F16G3/08

US class: 24/33B 29/243.5 29/243.52 29/243.529 29/243.53 29/466 29/509 29/526.2

Classification Explorer

Cited documents: US892959 A, US637902 A, US4161059 A, US4111080 A, US4060189 A, US4050138 A, US391380 A, US3913180 A, US3816895 A, US3742557 A, US3643852 A, US3581350 A, US3574898 A, US3478567 A, US3458099 A, US3261085 A, US3176358 A, US3125905 A, US3101481 A, US2976537 A, US2913180 A, US2911645 A, US2908008 A, US2765463 A, US2716750 A, US2465534 A, US1344485 A, JP50156180 A2, JP50153341 B4,

Forward Citations: WO11071457, WO09114378, WO05123348, WO05123348, US9333602, US8327515, US8151432, US7818858, US7810219, US7654389, US7493682, US7434775, US7232099, US6081995, US5906038, US5680790, US5487217, US5291644, US5244088, US5157812, US4566182, US4440336, US2010018044, US2009223023, US2009107810, US2008060171, US2008010785, US2007227436, US2006000073,

US2005230278, US2004128801, EP0124990, AU577527,

Abstract:
Source: US4258461A An apparatus is disclosed for riveting two elements together utilizing upper and lower plate fastener portions wherein means are provided for securing the lower plate fastener portions in an aligned relationship with an underlying anvil base. Also provided are means for securing the upper plate portions aligned with the lower plate portions and the two elements therebetween while the rivets are driven.

0) NL1035130C – HUIS VOOR EEN SLIPKOPPELING, SLIPKOPPELING, WAR...

51) Family number: 41833766 (NL1035130C) © PatBase

Title: HUIS VOOR EEN SLIPKOPPELING, SLIPKOPPELING, WARENHUIS MET EEN DERGELIJKE SLIPKOPPELING EN WERKWIJZE VOOR HET TOEPASSEN VAN EEN SLIPKOPPELING.

Priority: NL20061032479 20060912 NL20081035130 20080305

Family:

Publication number	Publication date	Application number	Application date
NL1032479 C2	20080313	NL20061032479	20060912
NL1035130 A1	20080410	NL20081035130	20080305
NL1035130 C	20140128	NL20081035130	20080305

Probable Assignee: BORDESO BV

Assignee(s):(std)**:** BORDESO BV

Assignee(s): BORDESO B V

Inventor(s):(std)**:** BOM PETRUS LEONARDUS JOZEF

Inventor(s): PETRUS LEONARDUS JOZEF BOM

International class (IPC 8–9)**:** A01G9/22 F16D7/02 F16G11/10 (Advanced/Invention); A01G9/22 F16D7/00 F16G11/00 (Core/Invention)

CPC: A01G9/22 F16G11/101

European class: A01G9/22 F16G11/10

Classification Explorer

Cited documents: US6327753 BA, NL9400921 A,

Forward Citations: NL2009720,

Abstract:
Source: NL1035130C DE UITVINDING HEEFT BETREKKING OP EEN HUIS VOOR EEN SLIPKOPPELING GEVORMD IN MATRIJS OMVATTENDE EEN WAND VOORZIEN VAN TEN MINSTE EEN UITSPARING VOOR HET OPNEMEN VAN EEN DOOR HET HUIS LOPEND AANDRIJFELEMENT, EEN IN HET HUIS GEVORMDE EERSTE OPNEEMRUIMTE VOOR EEN EERSTE KLEMELEMENT EN EEN IN HET HUIS GEVORMDE TWEEDE OPNEEMRUIMTE VOOR EEN TWEEDE KLEMELEMENT, WAARBIJ DE OPNEEMRUIMTES ZICH AAN WEERSZIJDE VAN DE UITSPARING BEVINDEN, EEN IN HET HUIS GEVORMDE GELEIDING VOOR TEN MINSTE EEN VAN DE KLEMELEMENTEN, DIE DWARS OP DE RICHTING VAN DE UITSPARING VOOR HET AANDRIJFELEMENT IS GERICHT, EN EEN IN HET HUIS GEVORMDE DERDE OPNEEMRUIMTE VOOR EEN VEERMIDDEL, WAARBIJ DE DERDE OPNEEMRUIMTE IN HOOFDZAAK IN HET VERLENGDE VAN DE EERSTE EN TWEEDE OPNEEMRUIMTE LIGT. DE UITVINDING BETREFT TEVENS EEN SLIPKOPPELING VOOR HET KOPPELEN VAN EEN SCHERMINRICHTING IN EEN WARENHUIS AAN EEN AANDRIJFELEMENT ZOALS EEN DRAAD, OMVATTENDE EEN HUIS VOORZIEN VAN TEN MINSTE EEN UITSPARING WAARIN HET AANDRIJFELEMENT OPNEEMBAAR IS EN VAN TEN MINSTE EEN KOPPELMIDDEL VOOR KOPPELING AAN DE SCHERMINRICHTING, WAARBIJ IN HET HUIS VEERMIDDELEN OPGENOMEN ZIJN DIE GEKOPPELD ZIJN MET EEN EERSTE BEWEEGBAAR IN HET HUIS OPGENOMEN KLEMELEMENT, WAARBIJ DE VEERMIDDELEN HET EERSTE KLEMELEMENT VOORSPANNEN TEGEN EEN TWEEDE KLEMELEMENT, WAARBIJ HET AANDRIJFELEMENT TUSSEN DE TWEE KLEMELEMENTEN OPNEEMBAAR IS, WAARBIJ HET HUIS EEN GELEIDING VOOR HET EERSTE KLEMELEMENT HEEFT DIE IN HOOFDZAAK DWARS OP DE RICHTING VAN DE UITSPARING VOOR HET AANDRIJFELEMENT IS GERICHT, WAARBIJ DE KLEMELEMENTEN EN DE VEERMIDDELEN OPGENOMEN ZIJN IN OPNEEMRUIMTES VAN HET HUIS, DIE IN HOOFDZAAK OP EEN LIJN LIGGEN. DIT OCTROOI IS VERLEEND ONGEACHT HET BIJGEVOEGDE RESULTAAT VAN HET ONDERZOEK NAAR DE STAND VAN DE TECHNIEK EN SCHRIFTELIJKE OPINIE. HET OCTROOISCHRIFT KOMT OVEREEN MET DE OORSPRONKELIJK INGEDIENDE STUKKEN.

0) GB1051673A – HOOKS.

52) Family number: 21582267 (GB1051673A) © PatBase

Title: Hooks.

Family:

Publication number	Publication date	Application number	Application date
GB1051673 A	00000000		00000000

International class (IPC 8–9): B64D1/22 B66C1/34 (Advanced/Invention)

International class (IPC 1–7): F16G17/00

CPC: B64D1/22 B66C1/34

European class: B64D1/22 B66C1/34

Classification Explorer

Forward Citations: WO9917986,

Abstract:
Source: GB1051673A 1,051,673. Hooks. AEROQUIP A.G. April 27, 1964 [May 20, 1963], No. 17423/64. Heading F2H. A hook apparatus comprises a support body 10, Figs. 1 and 2 (not shown), adapted to be attached to supporting means by eyes 32 or bolts 44, or hook 12 pivotally mounted on the body 10, and a latch 52, Fig. 9 (not shown), mounted on the hook, latch locking means 84, 110 mounted on the body, release means, e.g. solenoid 208, 210 and arm 116, a switch 194, Figs. 9 and 11 (not shown), mounted on the body 10 sensing the position of the hook in the latched position, and an indicating lamp 246, Fig. 14 (not shown), to indicate the position of the hook. A load retainer 70, Fig. 5 (not shown), is pivotally mounted on the hook and has an arm 74 which is depressed upon a load of predetermined weight being imposed on the hook, and is associated with a locking member 212 on the body 10. A switch 220 indicates by means of a lamp 244 when the load is taken up. The apparatus further comprises a safety lock lever 128, Fig. 6 (not shown), associated with the latch locking lever 110, and a switch 204 sensing its position. Switch 204 actuates a lamp 242. The hook 12 is relatched remotely by means of a cable 156, Fig. 3 (not shown), or by hand locally. Manual release of the hook may be effected remotely by cables 140, 164, or locally by the arm 122, Fig. 3, or by a plunger 150.

0) US5170924A – FASTENING APPARATUS FOR SECURING BELT FASTENERS...

53) Family number: 2576147 (US5170924A) © PatBase

Title: FASTENING APPARATUS FOR SECURING BELT FASTENERS TO A CONVEYOR BELT

Priority: CA19902030203 19901116 CA19902030203 19901116 US19890447101 19891206 US19920821316 19920113

Family:

Publication number	Publication date	Application number	Application date
AU199066824 A1	19910613	AU19900066824	19901121
AU633651 B2	19930204	AU19900066824	19901121
CA2030203 AA	19910607	CA19902030203	19901116
CA2030203 C	20010410	CA19902030203	19901116
DE69011635 D1	19940922	DE19906011635	19901205
DE69011635 T2	19941124	DE19906011635T	19901205
EP0431918 A2	19910612	EP19900313197	19901205
EP0431918 A3	19910814	EP19900313197	19901205
EP0431918 B1	19940817	EP19900313197	19901205
US5170924 A	19921215	US19920821316	19920113
ZA9009236 A	19910925	ZA19900009236	19901116

Probable Assignee: FLEXIBLE STEEL LACING CO

Assignee(s):(std): FLEXIBLE STEEL LACING CO

Assignee(s): FLEXIBLE STEEL LACING CO DOWNERS GROVE ILL US ; FLEXIBLE STEEL LACING COMPANY ; MUSIL EDWARD C

Inventor(s):(std): EDWARD CHARLES MUSIL ; MUSIL EDWARD C ; MUSIL EDWARD CHARLES

Inventor(s): MUSIL EDWARD CHARLES LYONS ILLINOIS 60534 US

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; MACRAE AND CO

Designated states: DE FR GB

International class (IPC 8–9): B25C5/02 F16G3/16 (Advanced/Invention); F16G3/00 (Core/Invention)

International class (IPC 1–7): B23P11/00 B25C5/02 B27F B65G F16G3/16

CPC: F16G3/16 Y10T29/53713

European class: F16G3/16

US class: 227/111 227/143 227/153 29/243.51

Classification Explorer

Cited documents: US4789092 A, US4538755 A, US4522329 A, US4144628 A, US4050138 A, US3458099 A, US3261085 A, US31428842, US3142842 A, US3101481 A, GB2202605 A1, GB1566409 A, GB1325063 A, FR2582369 A1, EP0394106 A1, EP0391772 A1,

Forward Citations: US9556930, US8931155, US8161615, US8157143, US8028391, US6311393, US5544801, US5368214, US2017138438, US2010319175, US2009294509, US2009074544, US2007271754, US2007062426, US2004069110, EP2045054, DE4414262,

Abstract:
Source: US5170924A A belt fastener apparatus and comb assembly is mounted and operable on a frame. The fastener apparatus is particularly applicable to wire loop–type fasteners and includes a locating pin to positively locate the punch and anvil arrangement to inhibit indexing the fastener apparatus prior to punch withdrawal from the comb bed and to provide independently operable punches which sequentially final–clinch a fastener and initially drive staples therethrough to reduce the work load on the fastener apparatus and operation.

0) BRMU8800127U – DISPOSITIVO PARA ESTICAMENTO E RECOLHIMENTO DE ...

54) Family number: 42084015 (BRMU8800127U) © PatBase

Title: DISPOSITIVO PARA ESTICAMENTO E RECOLHIMENTO DE CABO UTILIZADO EM EXPOSICAO ABERTA DE MERCADORIAS Stretch DEVICE FOR GATHERING AND CABLE USED IN OPEN EXPOSURE OF GOODS (Machine translation)

Priority: BR2008MU00127U 20080219

Family:

Publication number	Publication date	Application number	Application date
BRMU8800127 U	20080805	BR2008MU00127U	20080219

Probable Assignee: BOLLAND SECURITY IND E COM DE

Assignee(s):(std)**:** BOLLAND SECURITY IND E COM DE

Assignee(s): BOLLAND SECURITY INDUSTRIA E COMERCIO DE EQUIPAMENTOS ELETRONICOS LTDA

Inventor(s):(std)**:** MATIAS JACQUES

Inventor(s): JACQUES MATIAS

International class (IPC 8–9): F16G11/00 (Advanced/Invention); F16G11/00 (Core/Invention)

Classification Explorer

Abstract:
Source: BRMU8800127U , refere–se Patente de Modelo de Utilidade de um dispositivo de esticamento manual e recolhimento aotomatico de cabo para permitir ao consumido o manuseio, a avaliacao e a exprimentacao de produtos a venda na forma de exposicao aberta de mercadorias (EAM), composto por corpo (1) com um alojamento de mola (1–A), um alojamento do cabo plano (1–B), um anteparo do alojamento do cabo plano e tampa do carretel (1–C), um porta– mola (1–D) e uma base (1–E); cabo eletronico alimentador (2), com conector (2–A) e conector femea (2–B); placa de circuito impresso (3) dotada de conectores macho (3–A); cabo eletronico plano para movimento inverso (4), com conecto femea (4–A) e conector fenea (4–B); placa de circuito impresso (5) dotada de conectores macho (5–A); e mola (6) espiral com ponta anterio (6–A) e apresentando como vantagens a flezibilidade de utilizacao de cabos eletronicos com funcoes diferentes incluindo multimidia ou de cabos mecanicos com o mesmo dispositivo, sem necessitar o desmonte do mesmo na istalacao, a remocao e a troca de cabos ou em manutencao; possibilita ouso de cabos com diferentes esprssuras, de bitola e comprimento superior aos atuais; possibilita montagem mais simples do dispositivo;adaptabilidade e facil ajuste na montagem do dispositivo em diferentes superficies e inclinacoes; e robustez.

Machine translation: Refers Patent Utility Model of a manual stretching device and gathering aotomatico cable to allow the consumed handling, evaluation and exprimentacao products sold in the form of open exhibition of goods (EAM) composed of body (1) with a spring housing (1a), a housing flat cable (1–B), a bulkhead cable housing plan and cover reel (1–C), a spokesman spring (1–D) and a base (1–E); electronic feeder cable (2) connector (2–A) and female connector (2–B), printed circuit board (3) having male connectors (3 – A); cable electronic plan to reverse motion (4), connect female (4a) and FENEA connector (4–B), printed circuit board (5) having male connectors (5–A) and spring (6) previous spiral tip (6a) and presenting the advantages of the utilization of flezibilidade electronics cables with different functions including multimedia or mechanical cables with the same device without the need to disassemble the same istalacao in the removal and exchange of cables or maintenance; enables dare cables with different esprssuras, gauge and length greater than the current; enables simple mounting device; adaptability and easy adjustment when mounting the device on different surfaces and inclinations, and robustness.

0) US6153686A – HIGH MODULUS BELT COMPOSITION AND BELTS MADE TH...

55) Family number: 12702663 (US6153686A) © PatBase

Title: High modulus belt composition and belts made therewith

Priority: CA19982229629 19980213 US19970816973 19970313 US19980116297 19980716 US19990267876 19990311

Family:

Publication number	Publication date	Application number	Application date
AR011977 AA	20000913	AR1998P101110	19980312
BRPI9800846 A	20000328	BR1998PI00846	19980306
CA2229629 AA	19980913	CA19982229629	19980213
CA2229629 C	20070814	CA19982229629	19980213
CN1153807 C	20040616	CN19981008279	19980313
CN1197087 A	19981028	CN19981008279	19980313
CZ294598 B6	20050216	CZ19980000770	19980313
CZ9800770 A3	19980916	CZ19980000770	19980313
DE69814222 D1	20030612	DE19986014222	19980309
DE69814222 T2	20040318	DE19986014222T	19980309
DK0864607 T3	20030901	DK19980104155T	19980309
EP0864607 A1	19980916	EP19980104155	19980309
EP0864607 B1	20030507	EP19980104155	19980309
ES2197393 T3	20040101	ES19980104155T	19980309
HU218029 B	20000528	HU19980000544	19980312
HU9800544 A0	19980528	HU19980000544	19980312
HU9800544 AB	19981028	HU19980000544	19980312
HU9800544 AC	19981228	HU19980000544	19980312
ID20047 A	19980917	ID19980000274	19980226
IN00530DE1998 A	20060113	IN1998DE00530	19980227
IN215469 B	20080314	IN1998DE00530	19980227
JP10251451 A2	19980922	JP19980060749	19980312
KR19980079921 A	19981125	KR19980007235	19980305
PL193038 B1	20070131	PL19980325267	19980311
PL325267 A1	19980914	PL19980325267	19980311
TH21697 B	20070403	TH19981000675	19980227
TH30217 A	19980930	TH19981000675	19980227
TW591074 B	20040611	TW19980102719	19980225
US6153686 A	20001128	US19990267876	19990311
US6460836 BA	20021008	US19980116297	19980716

Probable Assignee: VEYANCE TECHNOLOGIES INC

Assignee(s):(std)**:** GOODYEAR TIRE AND RUBBER ; VEYANCE TECHNOLOGIES INC

Assignee(s): THE GOODYEAR TIRE AND RUBBER CO AKRON ; THE GOODYEAR TIRE AND RUBBER CO AKRON OHIO ; MORRIS MATTHEW THOMAS ; PILKINGTON MERVIN VICTOR ; TOMPKIN GARY RICHARD ; STEMCO KAISER INC ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; CREDIT SUISSE ADMINISTRATIVE AGENT AG AS ; DEUTSCHE BANK TRUST CO ; DEUTSCHE BANK TRUST CO AMERICAS COLLATERAL AGENT A ; DEUTSCHE BANK TRUST CO AMERICAS COLLATERAL AGENT AS ; GOODYEAR TIRE AND RUBBER CO ; GOODYEAR TIRE AND ; JPMORGAN CHASE BANK ; JPMORGAN CHASE BANK AS COLLATERAL AGENT ; JPMORGAN CHASE BANK NA ; GOODYEAR TIRE AND RUBBER CO THE ; JPMORGAN CHASE BANK COLLATERAL AGENT AS ; GRANATOWICZ DANIEL STANLEY ; RUBBER CO ; WILMINGTON TRUST CO ; LEHMAN COMMERCIAL PAPER INC ; THE GOODYESR TIRE and RUBBER COMPANY ; LEHMAN COMMERCIAL PAPER INC COLLATERAL AGENT AS ; WILMINGTON TRUST CO COLLATERAL

AGENT AS

Inventor(s):(std): MORRIS MATTHEW THOMAS ; PILKINGTON MERVIN VICTOR ; TOMPKIN GARY RICHARD ; TROWBRIDGE MARK GUY ; GRANATOWICZ DANIEL STANLEY

Inventor(s): MATTHEW THOMAS MORRIS ; MERVIN VICTOR PILKINGTON ; DANIEL STANLEY GRANATOWICZ ; MATHEW THOMAS MORRIS ; GARY RICHARD TOMPKIN

Agent(s): SIM AND MCBURNEY

Designated states: BE DE DK ES FR GB GR IT NL

International class (IPC 8–9): B29D29/08 C08K3/04 C08K5/098 C08K5/14 C08L15/00 C08L33/00 C08L61/10 C08L9/02 F16F9/05 F16G1/06 F16G1/28 (Advanced/Invention);
C08L61/06 C08L9/02 (Advanced/Non–invention);
C08K3/00 C08K5/00 C08K5/098 C08L15/00 C08L9/00 F16F9/02 F16G1/00 F16G1/06 F16G1/28 (Core/Invention);
C08L61/00 (Core/Non–invention)

International class (IPC 1–7): B29D29/00 B29D29/06 B29D29/08 C08K3/04 C08K5/098 C08K5/14 C08L15/00 C08L33/00 C08L61/06 C08L61/10 C08L9/02 F16F9/04 F16G1/06

CPC: C08K5/098 C08K5/14 C08L15/005 C08L61/06 F16F9/057 F16G1/28

European class: C08K5/098 C08K5/14 C08L15/00B F16F9/05P F16G1/28 M08K5/14 M08L15/00B M08L61/06

US class: 267/64.21 267/64.27 524/511 525/133 525/139

Classification Explorer

Cited documents: US5830946 A, US5731371 A, US5671907 A, US5599246 A, US5535994 A, US5501908 A, US5405690 A, US5382006 A, US5370915 A, US5326082 A, US5208294 A, US5201500 A, US5201499 A, US5060916 A, US4990570 A, US4798369 A, US4787606 A, US4718650 A, US4634726 A, US4506910 A, US4244234 A, US4031768 A, US3596895 A, US3043582 A, US3033558 A, EP0674121 A1, DE3918929 A1, DE3618907 A1,

Forward Citations: WO11093807, WO09032580, WO09032580, WO06132325, WO05038294, US9511805, US9334001, US9162718, US9067631, US8882621, US8882087, US8869676, US8859081, US8613430, US8511653, US8403307, US8333367, US7985152, US7784771, US7530554, US7396884, US6942201, US6913329, US6799815, US6750293, US6739997, US6682058, US6637733, US6538071, US2012313303, US2012153550, US2012056362, US2011218069, US2011018180, US2010255259, US2010252970, US2010127438, US2010071544, US2009200717, US2009057967, US2009057966, US2007210550, US2007177132, US2007135251, US2006181145, US2006043196, US2004167278, US2002193524, KR101684137, KR100816122, JP4328056, JP2011038119, JP2005194368, JP2004250709, JP2003041061, EP3165786, EP3112407, EP2088009, EP1806381, EP1806381, EP1682797, EP1449874, EP1449874, EP1245629, DE19942743, CN103554578, CN103554578,

Abstract:
Source: US6153686A A high modulus composition based on a mixture of a hydrogenated acrylonitrile butadiene rubber which has been modified with either zinc methacrylate or a combination of zinc oxide and methacrylic acid and an unmodified hydrogenated acrylonitrile butadiene rubber for use in high load–bearing synchronous drive belts and belts made therewith.

0) EP2549144A1 – ENERGY CHAIN PROVIDED WITH RETRACTABLE SUPPORTI...

56) Family number: 52853548 (EP2549144A1) © PatBase

Title: ENERGY CHAIN PROVIDED WITH RETRACTABLE SUPPORTING WHEELS

Priority: EP20110425195 20110719

Family:

Publication number	Publication date	Application number	Application date
EP2549144 A1	20130123	EP20110425195	20110719
EP2549144 B1	20171018	EP20110425195	20110719

Probable Assignee: FINDALTO S R L

Assignee(s):(std)**:** FINDALTO S R L

Assignee(s): FINDALTO S.R.L.

Inventor(s):(std)**:** MAURI GIOVANNI

Agent(s): Riccardi Sergio; RICCARDI SERGIO

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

International class (IPC 8–9): F16G13/16 H02G11/00 H02G3/04 (Advanced/Invention)

CPC: F16G13/16 H02G3/0475 H02G11/006

Classification Explorer

Cited documents: US2005040275 AA, EP1201963 A1, DE19851340 A1,

Forward Citations: WO17182583,

Abstract:
Source: EP2549144A1 An energy chain (100) for carrying hoses and cables within a plurality of opening (230) formed by opposite energy chain links connected by upper and lower crossing members (110). Multiple chain links are arranged within the energy chain (100) as supporting chain links (200) provided with supporting wheels (250) able to move from a retracted position inside the chain link body to a protruding position in which a portion thereof protrude from the chain link body. In the protruding position the supporting wheel (250) is configured for rotatably supporting an energy chain portion sliding above while dragged by the device served by the energy chain. In the retracted position the wheel (250) is configured for avoid contact with the supporting wheel of the bottom chain portion it is sliding on while dragged by the said served device.

0) US4885872A – GARAGE DOOR OPERATOR WITH PLASTIC DRIVE BELT

57) Family number: 3265431 (US4885872A) © PatBase

Title: GARAGE DOOR OPERATOR WITH PLASTIC DRIVE BELT

Priority: US19890305606 19890201

Family:

Publication number	Publication date	Application number	Application date
US4885872 A	19891212	US19890305606	19890201

Probable Assignee: CHAMBERLAIN GROUP INC

Assignee(s):(std)**:** CHAMBERLAIN GROUP INC

Assignee(s): CHAMBERLAIN GROUP INC A CT CORP ; THE CHAMBERLAIN GROUP INC

Inventor(s):(std)**:** CHANG JAMES S ; CLARK SCOTT M

International class (IPC 8–9): E05F15/16 F16G1/00 (Advanced/Invention); E05F15/16 F16G1/00 (Core/Invention)

International class (IPC 1–7): E05F11/00

CPC: E05Y2800/00 F16G1/00 E05Y2900/106 E05Y2201/646 E05F15/681 Y10T24/16 Y10T24/47

European class: E05F15/16B9 F16G1/00 P05Y900/106

US class: 160/189 24/265.00R 24/265R 24/31.00R 24/31R 474/144 49/200 49/362

Classification Explorer

Cited documents: US4422396 A, US4330960 A, US4231191 A, US4114473 A, US3722141 A, US3683710 A, US2084733 A,

Forward Citations: WO9813625, US9316038, US8251847, US6802154, US6145570, US5761850, US5437580, US5422552, US5419010, US5282337, US5116285, US5010688, US2014266589, US2013150193, US2011105262, US2008101095, EP0455358, DE9411333, CN103161900, CN103161900,

Abstract:
Source: US4885872A A garage door operator includes a head unit held by a supporting structure remote from the garage door. A rail has a first end held by a supporting structure adjacent the door and a second end fixed adjacent to and in alignment with a toothed drive wheel carried by the head unit. The garage door operator further includes an endless drive belt assembly trained about the drive wheel and a pulley held by the rail adjacent the garage door. The belt assembly includes a length of a plastic belt having teeth on one surface thereof matching the teeth on the drive wheel. The belt assembly further includes a trolley for connection to the garage door and a connector for joining one end of the plastic belt to one end of the trolley. The plastic belt has a lower surface to which the belt teeth extend, and the drive wheel has an upper surface to which the wheel teeth extend. Thus, the belt assembly can be installed by moving the plastic belt lower surface over the drive wheel upper surface until the respective sets of teeth are aligned, and moving the belt downwardly to train it about the drive wheel.

0) EP0434105A1 – APPARATUS FOR FILLING A CAVITY. VORRICHTUNG ZU...

58) Family number: 8559430 (EP0434105A1) © PatBase

Title: APPARATUS FOR FILLING A CAVITY.

Priority: NL19890003118 19891220

Family:

Publication number	Publication date	Application number	Application date
AT112747 E	19941015	AT19900203025T	19901114
DE69013307 D1	19941117	DE19906013307	19901114
DE69013307 T2	19950216	DE19906013307T	19901114
DK0434105 T3	19950227	DK19900203025T	19901114
EP0434105 A1	19910626	EP19900203025	19901114
EP0434105 B1	19941012	EP19900203025	19901114
ES2060935 T3	19941201	ES19900203025T	19901114
NL8903118 A	19910716	NL19890003118	19891220

Probable Assignee: LOVINK TERBORG BV

Assignee(s):(std)**:** LOVINK TERBORG BV

Assignee(s): LOVINK TERBORG TE TERBORG BV ; LOVINK TERBORG B V ; LOVINK TERBORG B V TE TERBORG ; LOVINK TERBORG B V TERBORG NL

Inventor(s):(std)**:** HOUT JOHAN SIMON VAN DEN ; KAPTEIN BARTHOLOMEUS JOHANNES ; VAN DEN HOUT JOHAN SIMON

Inventor(s): VAN DEN HOUT JOHAN SIMON NL 7051 WP VARSSEVELD NL ; KAPTEIN BARTHOLOMEUS JOHANNES NL 7071 CS ULFT NL

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

International class (IPC 8–9): B65D81/32 F16G11/00 H02G1/14 H02G15/00 (Advanced/Invention); B65D81/32 F16G11/00 H02G1/14 H02G15/00 (Core/Invention)

International class (IPC 1–7): B65D25/08 B65D81/00 B65D81/32 F16G11/00 H02G1/00 H02G15/00

CPC: F16G11/02 H02G15/003 B65D81/3266 H02G1/14

European class: B65D81/32H1 F16G11/00 H02G1/14 H02G15/00F

Classification Explorer

Cited documents: GB2134067 A1, FR2301119 A1, FR2272322 A1, EP0100903 A2,

Forward Citations: WO9612660, WO11021017, WO11021017, WO11021016, US9774178, US9484133, US8872027, US5951160, US5938034, US2015014054, GB2485114, GB2485114, FR2780661, EP2287986, EP0785896, AU2014274614,

Abstract:
Source: EP0434105A1 For assembling and finishing cable sleeves, for example, use is often made of two–component insulating material. Such materials usually fall within the provisions of environmental legislation. The liquid remnants left over after assembly of the cable sleeve are chemical waste and the individual components are harmful, irritant and/or flammable during processing so that these substances have to be dealt with extremely carefully. The invention now offers a system for filling with a mixture of two components a cavity (15) enclosed by a housing, for example a cable sleeve 1, and having a filling opening 8 for placing the mixture in the cavity, characterized by a flexible packaging 19 having three compartments (17, 23, 24) which are mutually separated by two removable dividers (21, 22) and two of which compartments are adjoining and contain the two respective components and the third of which serves as a filling tube (17) for insertion in the access opening (8), which two compartments containing the components can be placed in open communication with one another by removal of the divider, whereafter through kneading of the packaging the two components can form the mixture, whereafter the filling tube can be inserted into the filling opening, the second divider can be removed and the mixture can be carried into the cavity via the filling tube by pressing out the packaging.

59) Family number: 43225801 (WO09059885A1) © PatBase

Title: HOUSEHOLD DEVICE

Priority: DE200710053094 20071107

Family:

Publication number	Publication date	Application number	Application date
DE102007053094 A1	20090514	DE200710053094	20071107
DE102007053094 B4	20161027	DE200710053094	20071107
WO09059885 A1	20090514	WO2008EP64143	20081020

Probable Assignee: BSH BOSCH SIEMENS HAUSGERAETE

Assignee(s):(std)**:** BSH HAUSGERAETE GMBH ; HOTZ DIETER ; KUECUEK CENGIZ ; STICKEL MARTIN ; BSH BOSCH SIEMENS HAUSGERAETE

Assignee(s): BSH BOSCH UND SIEMENS HAUSGERAETE GMBH

Inventor(s):(std)**:** HOTZ DIETER ; KUECUEK CENGIZ ; STICKEL MARTIN

Agent(s): BSH BOSCH UND SIEMENS HAUSGERAETE GMBH

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 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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): A47L15/42 E05F1/10 F16G11/03 F24C15/02 (Advanced/Invention); A47L15/42 (Core/Invention)

CPC: A47L15/4261

European class: A47L15/42J6B

Classification Explorer

Cited documents: US2004113531 AA, DE19611051 A1, DE19611050 A1,

Abstract:
The invention relates to a household appliance, particularly a dishwasher, comprising at least: one treatment tank having a tank door that can be pivoted about a pivot axis (9), and a door counterweight device for at least partially counterbalancing the weight of the tank door by means of spring force of a spring connected via a tension transfer means to the tank door for transferring spring forces, and comprising a deflecting device (1) pivotally disposed about the pivot axis (9) for deflecting the tension transfer means, said deflecting device being engaged with a securing element (8). The invention is characterized in that the deflecting device (1) is held in a position engaging with the securing element (8) by door weight forces.

0) US2015059206A – GUIDES AND COMPONENTS FOR CLOSURE SYSTEMS AND M...

60) Family number: 58628589 (US2015059206A) © PatBase

Title: GUIDES AND COMPONENTS FOR CLOSURE SYSTEMS AND METHODS THEREFOR

Priority: US20130874134P 20130905 US20130879569P 20130918 US20140479173 20140905 US20140976369P 20140407 US20130880753P 20130920

Family:

Publication number	Publication date	Application number	Application date
US2015059206 AA	20150305	US20140479173	20140905
US9700101 BB	20170711	US20140479173	20140905
WO15035257 A2	20150312	WO2014US54420	20140905
WO15035257 A3	20150827	WO2014US54420	20140905

Probable Assignee: BOA TECH INC

Assignee(s):(std)**:** BOA TECH INC ; BOA TECHNOLOGY INC

Inventor(s):(std)**:** LOVETT KRISTOPHER C ; NICKEL MICHAEL JOSEPH ; SODERBERG MARK STANLEY ; VLADIKA BRETT ; SODERBERG MARK ; NICKEL MICHAEL ; MINKIN ILYA ; LOVETT KRISTOPHER ; KERNS MARK ; DICKENSHEETS DAVID ; CAVANAGH SEAN ; CAVANAGH ANDREA ; CAPRA JAMES ; BURNS ROBERT

Agent(s): KILPATRICK TOWNSEND AND STOCKTON LLP; WEIGHT CLARK F 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 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

International class (IPC 8–9)**:** A43C1/00 A43C1/06 A43C11/00 A43C11/16 A43C11/20 A43C3/00 A43C3/02 A43C5/00 F16G11/12 (Advanced/Invention)

CPC: A43C1/06 A43C3/00 A43C3/02 A43C5/00 A43C11/004 A43C11/008 A43C11/165 F16G11/12

US class: 12/142R 36/50.1

Classification Explorer

Cited documents: WO9943231 A1, WO9915043 A1, WO9909850 A1, WO9837782 A1, WO9833408 A1, WO9511602 A1, WO9503720 A2, WO9427456 A1, WO15181928 A1, WO15179332 A1, WO15035885 A1, WO12165803 A2, WO10059989 A2, WO09134858 A1, WO08033963 A2, WO08015214 A1, WO07016983 A1, WO05013748 A1, WO04093569 A1, WO02051511 A1, WO0115559 A1, WO0108525 A1, WO0076337 A1, WO0053045 A1, USD735987 S1, USD679019 S1, USD677045 S1, USD665088 S1, USD663851 S1, USD663850 S1, USD646790 S1, USD626322 S1, USD521226 S1, USD510183 S1, USD456130 S1, USD430724 S1, USD413197 S1, USD379113 S1, USD375831 S1, USD367954 S1, USD367755 S1, USD357576 S1, USD333552 S1, USD308282 S1, USD210649 S1, USD206146 S1, USD200394 S1, US9138030 BB, US9125455 BB, US9101181 BB, US908704 A, US9072341 BB, US8984719 BB, US8713820 BB, US8652164 BA, US8578632 BB, US8516662 BB, US8490299 BB, US8434200 BB, US8353088 BB, US8353087 BB, US8308098 BB, US8303527 BB, US8302329 BB, US8277401 BB, US8266827 BB, US8257293 BB, US8245371 BB, US8235321 BB, US8231074 BB, US8215033 BB, US819993 A, US8109015 BB, US8091182 BB, US80834 A, US8074379 BB, US8056150 BB, US7992261 BB, US7963049 BB, US7954204 BB, US7950112 BB, US7947061 BA, US7908769 BB, US7900378 BA, US7877845 BB, US7871334 BB, US7841106 BB, US7774956 BB, US7757412 BB, US7752774 BB, US7694354 BB, US7650705 BB, US7648404 BA, US7624517 BB, US7617573 BB, US7600660 BB, US7597675 BB, US7591050 BB, US7584528 BB, US7582102 BB, US7568298 BB, US7490458 BB, US746563 A, US7401423 BB, US7392602 BB, US7386947 BB, US7367522 BB, US7343701 BB, US7331126 BB, US7293373 BB, US7281341 BB, US7266911 BB, US7134224 BB, US7096559 BB, US7082701 BB, US7076843 BB, US7073279 BB, US6993859 BB, US6976972 BB, US6945543 BB, US6938913 BB, US6922917 BB, US6899720 BA, US6877256 BB, US6871812 BA, US6823610 BA, US6802439 BB, US6792702 BB, US6775928 BB, US6757991 BB, US6735829 BB, US6711787 BB, US6708376 BA, US6694643 BA,

US6606804 BB, US6568103 BB, US6543159 BA, US6502286 BA, US6477793 BA, US6467195 BB, US6416074 BA, US6401364 BA, US6370743 BB, US6311633 BA, US6289558 BA, US6286233 BA, US6267390 BA, US6256798 BA, US6240657 BA, US6219891 BA, US6202953 BA, US6148489 A, US6128836 A, US6128835 A, US6119372 A, US6119318 A, US6102412 A, US6088936 A, US6083857 A, US6070887 A, US6070886 A, US6052921 A, US6038791 A, US6015110 A, US5971946 A, US5956823 A, US5937542 A, US5934599 A, US59332 A, US5909946 A, US5845371 A, US5839210 A, US5833640 A, US5819378 A, US5791068 A, US5784809 A, US5772146 A, US5761777 A, US5756298 A, US5755044 A, US5737854 A, US5736696 A, US5732648 A, US5732483 A, US5720084 A, US5718065 A, US5718021 A, US5692319 A, US5669116 A, US5651198 A, US5647104 A, US5640785 A, US5638588 A, US5607448 A, US5606778 A, US5600874 A, US5599288 A, US5599000 A, US5596820 A, US5566474 A, US5557864 A, US5537763 A, US5535531 A, US5526585 A, US5511325 A, US5502902 A, US5477593 A, US5463822 A, US5433648 A, US5430960 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AA, US2015059206 AA, US2015033519 AA, US2015026936 AA, US2015014463 AA, US2015007422 AA, US2014359981 AA, US2014290016 AA, US2014257156 AA, US2014221889 AA, US2014208550 AA, US2014123449 AA, US2014123440 AA, US2014117140 AA, US2014094728 AA, US2014082963 AA, US2013345612 AA, US2013340283 AA, US2013277485 AA, US2013269219 AA, US2013092780 AA, US2013091674 AA, US2013091667 AA, US2013025100 AA, US2013019501 AA, US2013014359 AA, US2013012856 AA, US2012310273 AA, US2012246974 AA, US2012228419 AA, US2012174437 AA, US2012167290 AA, US2012157902 AA, US2012138882 AA, US2012102783 AA, US2012101417 AA, US2012047620 AA, US2012023717 AA, US2012005995 AA, US2012004587 AA, US2012000091 AA, US2011266384 AA, US2011258876 AA, US2011225843 AA, US2011197362 AA, US2011191992 AA, US2011167543 AA, US2011162236 AA, US2011071647 AA, US2011000173 AA, US2010319216 AA, US2010299959 AA, US2010251524 AA, US2010175163 AA, US2010154254 AA, US2010139057 AA, US2010101061 AA, US2010064547 AA, US2009277043 AA, US2009272007 AA, US2009184189 AA, US2009172928 AA, US2009090029 AA, US2009071041 AA, US2009019734 AA, US2008196224 AA, US2008172848 AA, US2008092279 AA, US2008083135 AA, US2008068204 AA, US2008066346 AA, US2008066345 AA, US2008066272 AA, US2008060168 AA, US2008060167 AA, US2008016717 AA, US2007169378 AA, US2007149657 AA, US2007128959 AA, US2007113524 AA, US2007084956 AA, US2007068040 AA, US2007063459 AA, US2007006489 AA, US2006287627 AA, US2006185193 AA, US2006179685 AA, US2006156517 AA, US2006148351 AA, US2006135901 AA, US2005198866 AA, US2005184186 AA, US2005172463 AA, US2005126043 AA, US2005102861 AA, US2005098673 AA, US2005087115 AA, US2005081403 AA, US2005081339 AA, US2005060912 AA, US2005054962 AA, US2004211039 AA, US2004041452 AA, US2003204938 AA, US2003177662 AA, US2003150135 AA, US2003144620 AA, US2003079376 AA, US2002178548 AA, US2002166260 AA, US2002148142 AA, US2002129518 AA, US2002095750 AA, US2002062579 AA, US2002050076 AA, US1995243 A, US1862047 A, US1530713 A, US1502919 A, US1481903 A, US1469661 A, US1466673 A, US1429657 A, US1416203 A, US1412486 A, US1393188 A, US1390991 A, US1288859 A, US117530 A, US1170472

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DE202010000354 U1

DE20116755 U1, DE19945045 A1, DE19624553 A1, DE1785220 A1, DE1661668 U,

DE112013005273 T5

CN2613167 Y, CN201015448 Y, CH624001G A3, CH624001, CH612076G A3, CH612076, CH577282 A4, CH562015 A4, CH537164 A4, CH523669 A4, CH471553 A, CH41765 A, CH204834 A, CH199766 A, CH111341 A, CA2114387 AA, CA2112789 AA, AT361808, AT244804, AT127075,

Forward Citations: WO17100207, WO17066415, US9770070, US9737115, US9706814, US9700101, US9681705, US9629417, US9610185, US9532626, US9516923, US9480299, US9439477, US9408437, US9380834, US9375053, US2017105489, US2017082242, US2016198801, US2015296922, US2015007422, US2014259783, US2014047739, CN105982392,

Abstract:
Source: US2015059206A According to an embodiment, a component for attachment to an article includes an upper component that is made of a thermoplastic material having a first melting temperature and a flange member that is molded onto the upper component and made of a thermoplastic elastomer material having a second melting temperature that is lower than the first melting temperature of the upper component. The flange member extends laterally from a bottom end of the upper component so that a bottom surface of the flange member is flush with or positioned axially below a bottom surface of the upper component. The melting temperature of the thermoplastic elastomer material enables the flange member to be directly coupled to the article via heat welding and the like without substantially affecting the upper component.

0) US2006243073A – DOOR DRIVE WITH BELT–LIKE DRIVE MEANS AND ELEVA...

61) Family number: 33340475 (US2006243073A) © PatBase

Title: DOOR DRIVE WITH BELT–LIKE DRIVE MEANS AND ELEVATOR INSTALLATION WITH SUCH A DOOR DRIVE

Priority: EP20050101836 20050309 EP20060110642 20060303

Family:

Publication number	Publication date	Application number	Application date
AU2006200997 AA	20060928	AU20060200997	20060308
BRPI0601017 A	20061107	BR2006PI01017	20060309
CN1830748 A	20060913	CN200610058871	20060308
CN1830748 B	20100526	CN200610058871	20060308
EP1700814 A1	20060913	EP20060110642	20060303
HK1095576 A3	20070511	HK20070102646	20070312
IN00399CH2006 A	20070608	IN2006CH00399	20060307
JP2006248784 A2	20060921	JP20060043440	20060221
NO20061111 A	20060911	NO20060001111	20060308
NZ545691 A	20070831	NZ20060545691	20060302
US2006243073 AA	20061102	US20060371711	20060309

Probable Assignee: INVENTIO AG

Assignee(s):(std)**:** BAUMGARTNER URS ; INVENTIO AG ; KEISER DANIEL ; SILBERHORN GERT

Assignee(s): INVENTIO AKTIENGESELLSCHAFT

Inventor(s):(std)**:** BAMGARTNER URS ; BAUMGARTNER URS ; DANIEL KEISER ; GERT SILBERHORN ; KEISER DANIEL ; SILBERHORN GERT ; URS BAUMGARTNER ; URS SILBERHORN GERT KEISER DAN

Inventor(s): SILBERHORN GERT KEISER DANIEL BAUMGARTNER URS

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; OSAKI KATSUMASA; TSUBOKURA MICHIAKI; KANAYAMA MASATAKA; KAWAGUCHI YOSHIO; ONO MAKOTO; BUTZEL LONG, DOCKETING DEPARTMENT; BUTZEL LONG DOCKETING DEPARTMENT

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

International class (IPC 8–9): B66B13/00 B66B13/02 B66B13/06 B66B13/08 F16G1/28 F16H27/02 F16H29/02 F16H29/20 (Advanced/Invention); B66B13/00 B66B13/02 F16H27/00 F16H29/00 (Core/Invention)

International class (IPC 1–7): B66B13/12 E05F7/00 F16G1/00 F16G1/28 F16G5/00 H01B5/16

CPC: Y10T74/18568 Y10T74/18832 Y10T74/18848 B66B13/06

European class: B66B13/06

US class: 74/89 74/89.2 74/89.22

Classification Explorer

Cited documents: US7246688 BB, US5878846 A, US5797471 A, US5701973 A, US5213182 A, US2006180502 AA, US2004026177 AA, US2003121729 AA, JP2000104791, EP1344959 A2, EP0825146 A1, DE4414065 C1,

Forward Citations: CN103508300,

Abstract:
Source: US2006243073A A door drive has a drive unit and a belt–like drive for moving at least one door leaf. At least one electrically conductive element extends in a longitudinal direction of the belt–like drive for transmission of electrical signals or energy to/from the at least one door leaf. A first contact device extends into a longitudinal groove formed in the belt–like drive enabling access to the at least one electrically conductive element. When the belt–like drive is moving past the first contact device, the first contact device produces a permanent contact with

the at least one electrically conductive element.

0) US2017036891A – METHOD, A ROPE TERMINAL ARRANGEMENT AND AN ELEV...

62) Family number: 64831764 (US2017036891A) © PatBase

Title: METHOD, A ROPE TERMINAL ARRANGEMENT AND AN ELEVATOR

Priority: EP20150180136 20150807

Family:

Publication number	Publication date	Application number	Application date
CN106429721 A	20170222	CN201610629002	20160803
EP3127850 A1	20170208	EP20150180136	20150807
US2017036891 AA	20170209	US20160223709	20160729

Probable Assignee: KONE CORP

Assignee(s):(std)**:** HALLIKAINEN PEKKA ; KONE CORP ; LEHTINEN HANNU

Inventor(s):(std)**:** HALLIKAINEN PEKKA ; LEHTINEN HANNU ; PEKKA HALLIKAINEN ; HANNU LEHTINEN

Agent(s): KOLSTER OY AB

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

International class (IPC 8–9): B66B7/06 B66B7/08 F16G11/04 (Advanced/Invention)

CPC: F16G11/044 B66B9/00 B66B7/085 B66B7/06

US class: 187/411

Classification Explorer

Cited documents: WO14083043 A1, WO06029544 A1, EP2860142 A1, EP2749520 A2,

Abstract:
Source: US2017036891A The invention furthermore relates to a rope terminal arrangement fabricated with the method, as well as to an elevator implementing the rope terminal arrangement.

0) GB1423347A – RATCHET TENSIONERS

63) Family number: 25000149 (GB1423347A) © PatBase

Title: RATCHET TENSIONERS

Priority: GB19720014497 19720328

Family:

Publication number	Publication date	Application number	Application date
DE2315330 A1	19731115	DE19732315330	19730328
GB1423347 A	19760204	GB19720014497	19720328
ZA7302033 A	19740130	ZA19730002033	19730323

Probable Assignee: IRVIN GREAT BRITAIN LTD

Assignee(s):(std): IRVIN GREAT BRITAIN LTD

Assignee(s): IRVIN GREAT BRITAIN LTD LETCHWORTH HERTFORDSHIRE ; IRVIN GREAT BRITAIN LTD LETCHWORTH HERTFORDSHIRE GROSSBRITANNIEN

Inventor(s):(std): LANGLEY R ; LANGLEY ROBERT LEONARD

Inventor(s): LANGLEY ROBERT LEONARD BALDOCK HERTFORDSHIRE GROS ; LANGLEY ROBERT LEONARD BALDOCK HERTFORDSHIRE GROSSBRITANNIEN

International class (IPC 8–9): F16G11/12 (Advanced/Invention); F16G11/00 (Core/Invention)

International class (IPC 1–7): B25B25/00 B29F1/06 B65B13/22 B66D1/02 F16G11/12

CPC: B60P7/083 F16G11/12

European class: B60P7/08C1 F16G11/12

Classification Explorer

Forward Citations: WO9717279, US4227286, GB2152003, FR2424152, EP1464537, EP0489376, DK152188, DK151542, DE102009020239, DE102009020239, CN103466479, BE1002148,

Abstract:
Source: GB1423347A 1423347 Ratchet tensioners for pallets and c. IRVIN GREAT BRITAIN Ltd 26 March 1973 [28 March 1972] 14497/72 Heading B8B A ratchet tensioner for a web or cable 2 comprises a reel 1 for winding the web 2 and a ratchet wheel 3 at each end of the reel 1 for engagement with fixed retaining pawls 4 and driving pawls 8 formed on the side arms of a bifurcated lever 7 reciprocable to drive the reel 1. The latter is mounted for rotational and translational movement in elongate slots 6 in fixed side plate 5 and the lever 7 has elongate slots 10 whereby it is rotatable and translatable relative to the reel 1, facilitating uni–directional rotation of the reel relative to the plates 5 and lever 7. The web 2 passes under a guide 17 on the tensioner whereby tension in the web tends to force the reel ratchet teeth downwardly into engagement with the retaining pawls. To release tension in the web 2, the lever 7 having reached its extreme anti–clockwise (in Fig. 2) position, with stops 13 thereon engaging a fixed heel 14, is pulled radially of the reel until the stops 13 are released from the heel 14 and the pawls 8 are disengaged from the wheels 3, whereafter the lever 7 is further rotated anti–clockwise, thereby lifting the reel clear of the fixed pawls 4, due to interengagement of cams 15, 16 on the lever 7 and the fixed plates 5. The lever 7 may be parked in its fully clockwise (in Fig. 2) position, with the web in tension, a spring catch 11a, 11b locating the lever with plates 5, and the plates 5 and lever 7 being interlocked by projections 12a, 12 on the plates and lever. The web 2 is locked on the reel 1 by passing it between and over a pair of parallel bars 1a forming the mid–portion of the reel shaft. An anchorage bar 20 is provided between the side plates 5 for the connection of a further web or cable 19 forming part of a tension strapping system, e.g. for a load on a pallet. In the embodiment of Figs. 5 to 7 (not shown), the web tension is releasable when the reciprocable lever is rotated beyond the parked position. This further rotation is facilitated by a bar slidable in the lever to engage one of two stops formed on the side plates, a further stop on the lever running along a cam formed on the side plates causing translational movement of the lever relative to the reel, and of the reel relative to the side plates, to release the reel from the retaining and driving pawls.

0) US3716115A – DEVICE FOR RELEASABLY GRIPPING AN ELONGATE FLEX...

64) Family number: 7205248 (US3716115A) © PatBase

Title: DEVICE FOR RELEASABLY GRIPPING AN ELONGATE FLEXIBLE MEMBER

Priority: US19700093074 19701127

Family:

Publication number	Publication date	Application number	Application date
US3716115 A	19730213	US19700093074	19701127

Probable Assignee: HAHN F

Assignee(s):(std)**:** FINK M ; HAHN F ; LITTLEBURY H

Assignee(s): LITTLEBURY H US ; HAHN F US ; FINK M US

Inventor(s):(std)**:** ELSNER E

Inventor(s): ELSNER E US

International class (IPC 8–9): B66D3/02 F16G11/10 (Advanced/Invention); B66D3/00 F16G11/00 (Core/Invention)

International class (IPC 1–7): B65H17/34

CPC: B66D3/02 B66D2700/021 F16G11/101

European class: B66D3/02 F16G11/10 L66D700/02A

US class: 188/166 188/6.5.1 188/65.1

Classification Explorer

Cited documents: US300248 A, US1482268 A,

Abstract:
Source: US3716115A A device for releasably gripping an elongate flexible member, such as a webbing strap extending therethrough, and wherein gripping surfaces of the device are resiliently urged by a loading spring into pressure engagement with the strap, manually operable camming means being provided for releasably varying the pressure engagement resulting from the loading spring, so as to permit relative restrained movements between the gripping surfaces of the device and the webbing strap under load stressing forces applied between the webbing strap and the device.

0) US3851371A – PNEUMATICALLY OPERATED TOOL

65) Family number: 1110761 (US3851371A) © PatBase

Title: PNEUMATICALLY OPERATED TOOL

Priority: AU19730062853 19731123 US19720318822 19721227

Family:

Publication number	Publication date	Application number	Application date
AU197362853 A1	19750529	AU19730062853	19731123
BE809193 A	19740416	BE19730139354	19731227
BE809193 A1	19740416	BE19730139354	19731227
BR7310092 A0	19740815	BR19730010092	19731221
CA983651 A1	19760217	CA19730185653	19731113
DE2364012 A1	19740711	DE19732364012	19731221
DE2364012 B2	19780105	DE19732364012	19731221
DE2364012 C3	19780907	DE19732364012	19731221
FR2212216 A1	19740726	FR19730046319	19731226
FR2212216 B1	19770826	FR19730046319	19731226
GB1400377 A	19750716	GB19730058084	19731214
JP1088160 C3	19820323	JP19730139512	19731213
JP49090000 A2	19740828	JP19730139512	19731213
JP56031234 B4	19810720	JP19730139512	19731213
SE398608 B	19780109	SE19730017477	19731227
SE398608 C	19780420	SE19730017477	19731227
US3851371 A	19741203	US19720318822	19721227

Probable Assignee: SIGNODE CORP

Assignee(s):(std)**:** SIGNODE CORP

Assignee(s): SIGNODE CORP 3600 WEST LAKE AVENUE GLENVIEW ILLINOIS E U A ; SIGNODE CORP GGLENVIEW ILL V ST A ; SIGNODE CORP GLENVIEW ILL V ST A ; SIGNODE CORP US ; SIGNORE CORP ; PLUNKETT LARRY D

Inventor(s):(std)**:** PLUNKETT L ; PLUNKETT L D ; PLUNKETT LARRY D

Inventor(s): PLUNKETT LARRY D CRYSTAL LAKE ILL V ST A ; PLUNKETT L US ; L D PLUNKETT ; LARRY D PLUNKETT ; LD PLUNKETT

International class (IPC 8–9)**:** B21F15/06 B23F15/06 B23P11/00 B25B25/00 B25B27/14 B25B31/00 B65H69/00 F16B7/04 H01R43/027 H01R43/042 (Advanced/Invention); B21F15/00 B23F15/00 B23P11/00 B25B25/00 B25B27/14 B25B31/00 B65H69/00 F16B7/04 H01R43/04 (Core/Invention)

International class (IPC 1–7)**:** B21F15/06 B23P11/00 B25B25/00 B25C5/00 B25C5/08 B27F7/06 B65H69/00 F16B7/04 F16G11/00 H01R43/04 H01R5/10

CPC: Y10T29/53226 Y10T29/53513 Y10T29/53783 B25B27/146 H01R43/0427

European class: B25B27/14C H01R43/042E

US class: 140/93D 248/52 285/61 29/24.3.56 29/243.56 29/751 29/816

Classification Explorer

Cited documents: US838008 A, US593064 A, US3666220 A, US3571890 A, US3529342 A, US3368322 A, US2969545 A, US2831302 A, US2574811 A, US2183978 A, US1575476 A, FR2066337 A5,

Forward Citations: WO9429549, WO10141072, US8690036, US8316763, US8191223, US5661899, US4179964, US4169307, US2011303722, US2010307351, US2010236061, JP59044562, FR2344400, CN102458816,

Abstract:
Source: US3851371A A pneumatic clip tool for clinching clips about wires. The tool is configurated to minimize the

likelihood of jamming and is designed to speed the clearing of jams. A fixed position clinching jaw below the driver is quickly moved out of position to provide access to the driver assembly from below. The jaws are L–shaped to butt on closing and have steps and serrations at their line of juncture, thereby to minimize jamming of a clip in the jaw and driver assembly when the tool is in use. A supplemental retracting force is selectively provided when the usual retracting piston and cylinder is ineffective to return the driving piston to an inactive position to ready it for a new cycle of operation. The magazine and follower are proportioned so that the last few clips are not fed, to minimize tumbling and jams which occur for that reason. The tool also includes an antibackup assembly to prevent the rearward movement of clips fed to the driver, thereby eliminating the possibility of tumbling for that reason.

0) DE20302616U1 – PICTURE FRAME HOLDING DEVICE, TO BE MOVED VERTI...

66) Family number: 31046889 (DE20302616U1) © PatBase

Title: PICTURE FRAME HOLDING DEVICE, TO BE MOVED VERTICALLY ALONG STRING FOR ADJUSTMENT OF HEIGHT OF PICTURE

Priority: DE20032002616U 20030217

Family:

Publication number	Publication date	Application number	Application date
DE20302616 U1	20030508	DE20032002616U	20030217

Probable Assignee: STAS MARINUS BARBARA A M

Assignee(s):(std)**:** STAS MARINUS BARBARA A M

Assignee(s): STAS MARINUS BARBARA AM

International class (IPC 8–9)**:** A47G1/16 A47G1/20 F16G11/10 (Advanced/Invention); A47G1/16 F16G11/00 (Core/Invention)

International class (IPC 1–7)**:** A47G1/21

CPC: A47G1/1686 F16G11/106

European class: A47G1/16R A47G1/20 F16G11/10

Classification Explorer

Forward Citations: WO08096116, DE102004040434,

Abstract:
Source: DE20302616U1 The string can be guided through a central vertical duct (11) in the holding device (1) assembled of two shells (5, 6), while a lever (21) protruding from the housing (2) is pressed. The lever (21) acts on a v–shaped leaf spring, located between the inner surface of one of the shells (6) and the surface of the lever (21) opposite the operating surface (25), causing a clamping drum to keep the duct (11) open for moving the string. When the lever (21) is released, the drum is pushed against the string, the hook (3), protruding from the outer surface of the device (1) is kept at the required height for hanging the particular picture.

0) US3976414A – APPARATUS FOR THE PRODUCTION OF DOUBLE–WALLED S...

67) Family number: 2085789 (US3976414A) © PatBase

Title: APPARATUS FOR THE PRODUCTION OF DOUBLE–WALLED SYNTHETIC PLASTIC TUBES HAVING A TRANSVERSELY CORRUGATED OUTER WALL AND A SMOOTH INNER WALL

Priority: 19560326 19560808 DE19742413787 19740322 DE19742413878 19740322 DE19742413879 19740322

Family:

Publication number	Publication date	Application number	Application date
AR207352 A1	19760930	AR19750257971	19750101
AT345544 B	19780925	AT19740004407	19740528
AT362928 B	19810625	AT19740004408	19740528
AT440774 A	19780115	AT19740004407	19740528
AT440874 A	19801115	AT19740004408	19740528
AU197579436 A1	19760930	AU19750079436	19750324
BE826977 A	19750716	BE19750154580	19750321
BE826977 A1	19750716	BE19750154580	19750321
BG27885 D	19800115	BG19750029302	19750314
BR7501741 A	19751223	BR19750001741	19750324
CA1024311 A1	19780117	CA19740213311	19741108
CA1027316 A1	19780307	CA19740211759	19741018
CH602315 A	19780731	CH19750002861	19750306
CS188205 B2	19790228	CS19740007566	19741106
CS191238 B2	19790629	CS19740007565	19741106
DD119012 C	19760405	DD19750184901	19750320
DD119549 C	19760505	DD19750184902	19750320
DE2413787 A1	19750807	DE19742413787	19740322
DE2413787 B1	19750807	DE19742413787	19740322
DE2413787 C2	19760318	DE19742413787	19740322
DE2413878 A1	19760219	DE19742413878	19740322
DE2413878 B2	19770901	DE19742413878	19740322
DE2413878 C3	19780427	DE19742413878	19740322
DE2413879 A1	19751002	DE19742413879	19740322
DE2413879 B2	19770901	DE19742413879	19740322
DE2413879 C3	19780427	DE19742413879	19740322
DK142938 B	19810302	DK19750000966	19750310
DK142938 C	19811005	DK19750000966	19750310
DK96575 A	19750923	DK19750000965	19750310
DK96675 A	19750923	DK19750000966	19750310
EG11746 A	19781231	EG19750000146	19750322
ES435708 A1	19761216	ES19750435708	19750317
FI60990 B	19820129	FI19750000830	19750320
FI60990 C	19820510	FI19750000830	19750320
FI750830 A	19750923	FI19750000830	19750320
FR2264648 A1	19751017	FR19740028377	19740809
FR2264648 B1	19780217	FR19740028377	19740809
FR2264649 A1	19751017	FR19740028378	19740809
FR2264649 B1	19771104	FR19740028378	19740809
FR69330 E	19581023		00000000

FR69789 E	19581230		00000000	
FR69790 E	19581230		00000000	
FR69919 E	19590109		00000000	
FR69963 E	19590130		19560326	
FR70019 E	19590202		00000000	
FR70166 E	19590219		00000000	
FR70397 E	19590406		00000000	
FR70398 E	19590406		19560808	
FR70540 E	19590529		00000000	
FR71347 E	19591222		00000000	
FR72006 E	19600321		00000000	
GB1432886 A	19760422	GB19740030610	19740710	
GB1439294 A	19760616	GB19740030611	19740710	
HU175372 P	19800728	HU1975HE00685	19750321	
IE40874 B	19790829	IE19750000639	19750321	
IE40874 L	19750922	IE19750000639	19750321	
IL46892 A0	19750522	IL19750046892	19750321	
IL46892 A1	19780731	IL19750046892	19750321	
IN142366 A	19770625	IN1975CA00472	19750311	
IT1034462 A	19790910	IT19750021494	19750321	
JP1242672 C3	19841214	JP19750034217	19750320	
JP50133262 A2	19751022	JP19750032855	19750318	
JP50140565 A2	19751111	JP19750034217	19750320	
JP58024253 B4	19830520	JP19750034217	19750320	
NL7409440 A	19750924	NL19740009440	19740712	
NL7409522 A	19750924	NL19740009522	19740715	
NO142612 B	19800609	NO19740002287	19740624	
NO142612 C	19800917	NO19740002287	19740624	
NO142613 B	19800609	NO19740002288	19740624	
NO142613 C	19800917	NO19740002288	19740624	
NO742287 A	19750923	NO19740002287	19740624	
NO742288 A	19750923	NO19740002288	19740624	
PL100947 B1	19781130	PL19750178933	19750320	
SE405086 B	19781120	SE19740007555	19740607	
SE405086 C	19790301	SE19740007555	19740607	
SE414732 B	19800818	SE19740007554	19740607	
SE414732 C	19801204	SE19740007554	19740607	
SE7407554 A	19750923	SE19740007554D	19740607	
SE7407555 A	19750923	SE19740007555D	19740607	
SU656486 S	19790405	SU19752112441	19750313	
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TR18042 A	19780812	TR19740018042	19740708	
TR18685 A	19770623	TR19740018685	19740708	
US3976414 A	19760824	US19750559455	19750318	
US3996323 A	19761207	US19750554946	19750303	
YU67975 A	19820228	YU19750000679	19750319	
ZA7501812 A	19760225	ZA19750001812	19750321	

Probable Assignee: GUTEHOFFNUNGSHUETTE STERKRADE 4200 OBERHAUSEN AG

Assignee(s):(std)**:** AMERICAN CYANAMID CO ; CELLOPHANE SA ; GUTEHOFFNUNGSHUETTE STERKRADE ; ELECTRONIQUE AND PHYSIQUE ; HEGLER RALPH PETER ; HEGLER

RALPH P ; HEGLER RALF PETER ; HEGLER WILHELM ; HEGLER ; HEGLER WILHELM ING ; KLEBER COLOMBES ; HGLER ; PNEUMATIQUES AND CAOUTCHOUC MANU ; THOMSON HOUSTON COMP FRANCAISE ; ONERA OFF NAT AEROSPATIALE ; MAXIMILIANSHUETTE EISENWERK ; WILHELM HELGER

Assignee(s): PNEUMATIQUES AND CAOUTCHOUC MANUFACTURE KLEBER COLOMBES ; OFFICE NATIONAL D ETUDES ET DE RECHERCHES AERONAUTIQUES ; WILHELM HEGLER TE BAD KISSINGEN BONDSREPUBLIEK DUITSLAND ; RALF PETER KHEGLER DT ; VILGELM KHEGLER DT ; WILHELM HEGLER ; LABORATOIRES D ELECTRONIQUE ET DE PHYSIQUE APPLIQUEES ; INGWILHELM HEGLER DE ; ONERA ; HEGLER WILHELM DE ; ING WILHELM HEGLER DE ; HEGLER WILHELM DT ; LA CELLOPHANE ; HEGLER W ; HEGLER WILHELM 8730 BAD KISSINGEN ; EISENWERK GESELLSCHAFT MAXIMILIANSHUETTE A G ; GUTEHOFFNUNGSHUETTE STERKRADE AG 4200 OBERHAUSEN ; GUTEHOFFNUNGSHUETTE STERKRADE 4200 OBERHAUSEN AG ; FRANCAISE THOMSON HOUSTON COMP ; EISENWERK GES MAXIMILIANSHUETTE A G ; COMPAGNIE FRANCAISE THOMSON HOUSTON ; AMERICAN CYANAMID COMPANY ; BIRUHERUMU HEEKURAA

Inventor(s):(std)**:** CREISSARD HENRI FELIX ; DUDRAGNE RAYMOND ANDRE ; FOUG ANDRE MARIE RENE EMI RIGO ; HEGLER ; HEGLER R ; HEGLER R P ; HEGLER RALPH P ; HEGLER RALPH PETER ; HELGER WILHELM ; KHEGLER RALF PETER ; KHEGLER RALPH PETER ; KHEGLER VILGELM ; LANTERMANN HEINZ ; MACRET MARIUS ; RALPH P H ; WILHELM H ; HEGLER W ; HEGLER WILHELM ; PAUL FRANCIS

Inventor(s): LANTERMANN HEINZ 4272 KIRCHHELLEN ; HEGLER WILHELM DE ; WILHELM HEGLER ; WILHELM HELGER ; VILGELM KHEGLER DT ; RALF PETER KHEGLER DT ; BIRUHERUMU HEEKURAA ; RALPH PETER HEGLER ; RARUFU PEETAA HEEKURAA ; W HEGLER ; R P HEGLER ; HEGLER RALPH PETER DE ; FOUG ANDRE MARIE RENE EMI RIGOINE DE

Agent(s): REINHOLD COHN AND PARTNERS

International class (IPC 8–9)**:** A61B3/13 B01J21/12 B29B11/10 B29B7/00 B29C47/00 B29C47/04 B29C47/06 B29C47/20 B29C47/26 B29C47/28 B29C47/30 B29C47/90 B29C47/92 B29C49/00 B29C49/04 B29C49/20 B29C49/30 B29C49/38 B29C49/48 B29C49/58 B29C53/00 B29C53/30 B29C59/04 B29C63/34 B29C65/00 B29C69/00 B29D23/00 B29D23/18 B65G15/08 B65G15/34 C03C25/26 C21C1/00 C21C5/32 E04G7/18 F01N13/18 F16G3/10 F16L11/118 G01D9/00 G03B9/10 G08B5/00 H05F3/04 (Advanced/Invention); B29L23/18 C21C1/04 (Advanced/Non–invention); A61B3/13 B01J21/00 B29B11/00 B29B7/00 B29C47/00 B29C47/04 B29C47/06 B29C47/20 B29C47/26 B29C47/30 B29C47/90 B29C47/92 B29C49/00 B29C49/04 B29C49/20 B29C49/28 B29C49/48 B29C49/58 B29C53/00 B29C63/34 B29C65/00 B29C69/00 B29D23/00 B29D23/18 B65G15/08 B65G15/32 C03C25/24 C21C1/00 C21C5/30 E04G7/00 F01N13/18 F16G3/00 F16L11/11 G01D9/00 G03B9/10 G08B5/00 H05F3/00 (Core/Invention); B29D (Subclass/Invention)

International class (IPC 1–7)**:** B29C17/07 B29D23/00 B29D23/02 B29D23/03 B29D23/04 B29D23/18 B29F3/04 B29F3/10 C08F47/00 F01N7/20 F16L11/11 F16L9/12 F16L9/18 H01B13/24

CPC: H05F3/04 C03C25/26 G08B5/004 B01J21/12 F01N13/18 F01N13/1894 F01N2310/04 F01N2470/02 F01N2470/18 F01N2470/24 F01N2470/30 E04G7/18 C21C1/00 C21C1/04 C21C5/32 A61B3/13 B29C63/341 B29C53/30 G03B9/10 F16L11/118 B29C47/0033 B29C47/0052 B29C47/065 B29C47/126 B29C47/28 B29C47/902 B29C47/92 B29C49/0021 B29C2791/006 B29L2016/00 B29L2023/186 B29L2024/003 B29L2031/601 G01D9/00 B29C47/265 B29C2947/92019 B29C2947/92209 B29C2947/92409 B29C2947/92514 B29C2947/92704 B29C2947/92904 B29C47/904 B29C47/8835 B29C47/0023 B29C47/908 B65G15/08 B65G15/34 B65G2201/06 F16G3/10

European class: 116A4F 116A5C2 A61B3/13 B01J21/12 B29C47/00J10 B29C47/00J6 B29C47/00L6B2 B29C47/06P B29C47/12D B29C47/28 B29C47/90B2 B29C47/90M B29C49/00C2 B29C53/30 B29C63/34B B65G15/08 B65G15/34 C03C25/26 C21C1/00 C21C5/32 E04G7/18 F01N13/18 F01N13/18S1 F16G3/10 F16L11/118 G01D9/00 G03B9/10 G08B5/00B H05F3/04 L29C47/00J10 L29C47/00J6 L29C791/00E4 L29L16/00 L29L23/18C L29L24/00C L29L31/60B L65G201/06 L65G812/02B2F M21C1/04 R01N310/04 R01N470/02 R01N470/18 R01N470/24 R01N470/30

US class: 264/508 264/514 264/89 425/131.1 425/326.1 425/381 425/395

Classification Explorer

Cited documents: US3743457 A, US3743456 A, US3689610 A, US3677676 A, US3538209 A, US3349156 A, US3280430 A, US3201827 A, US3188690 A, SU338412 T, JP48000862 A2, JP47047106 A2, JP46009674 A2, JP46009673 A2, GB1253393 A, GB1132711 A,

Forward Citations: WO9501251, WO8502144, WO08017496, US9082531, US9016221, US8997672, US8820800, US8733405, US8550807, US8496460, US8114324, US8043082, US7988438, US7980841, US7946031, US7484535, US7449080, US7264764, US7205479, US6190480, US6096975, US5848223, US5752315, US5683647, US5645871, US5637168, US5531583, US5494430, US5489201, US5456589, US5454061, US5405569, US5346384, US5320797, US5124109, US4936768, US4933134, US4846660, US4808098, US4790975, US4767284, US4712993, US4710337, US4555230, US4510013, US4473525, US4394074, US4381276, US4312383, US4305703, US4288905, US4226580, US4212618, US4186831, US4181487, US3063241, US2448974, US2011192022, US2010226943, US2010126404, US2010119755, US2007259065, US2007181335, US2007141284, US2006180329, US2004239010, US2004126527, RU2531391, RU2472620, JP63004931, JP57142326, JP3504630, JP2561741, GB2259045, FR2454984, FR2379366, FR2379366, FR2362715, EP2535077, EP1847374, EP0708702, EP0571181, EP0563575, EP0248368, EP0237734, EP0230055, EP0208055, EP0142482, EP0135634, EP0135634, EP0128366, EP0108598, EP0096957, EP0096957, EP0055686, EP0048112, EP0044389, DE9001467, DE4224743, DE4210482, DE3513708, DE2933304, DE2804540, DE10117126, CN103935008,

Abstract:
Source: US3976414A An improvement in an apparatus for forming an outer corrugated tube wherein the corrugations of said tube abut an inner tube within said corrugated tube, said apparatus comprising means for forming an outer corrugated tube about a dye, means for forming said inner tube about a central mandrel within said corrugated tube, the improvement comprising means for urging an inner tube against the corrugations of said outer corrugated tube, said means comprising a presser floating mounted within said inner tube in facing relationship to said inner tube and bearing outward towards said inner tube.

0) GB877796A – MECHANICAL ACTUATING DEVICE

68) Family number: 20790757 (GB877796A) © PatBase

Title: MECHANICAL ACTUATING DEVICE

Priority: 19580221

Family:

Publication number	Publication date	Application number	Application date
GB877796 A	19610920	GB19590005951	19590220

Probable Assignee: AVRO AIRCRAFT LTD

Assignee(s):(std)**:** AVRO AIRCRAFT LTD

Assignee(s): AVRO AIRCRAFT LIMITED

International class (IPC 8–9)**:** F16C1/22 F16G11/12 (Advanced/Invention); F16C1/10 F16G11/00 (Core/Invention)

International class (IPC 1–7)**:** F16C1/16

CPC: F16G11/12 F16C1/16 F16C1/226

European class: 62D9F2 F16C1/22 F16G11/12

Classification Explorer

Forward Citations: DE102006000794,

Abstract:
Source: GB877796A 877,796. Locking rods. AVRO AIRCRAFT Ltd. Feb. 20, 1959 [Feb. 21, 1958], No. 5951/59. Class 80 (3). An actuating device for a control cable 12 comprises a handle 34 on a sleeve 33 surrounding a cylinder 29 to which the end of the cable is attached, the sleeve 33 having an extension 35 formed with a conical grooved cam surface 36a coacting through balls 49 with a corresponding grooved surface on a deformable collet 45 so that the latter is compressed to grip the cylinder 29 and thus couple the cylinder to the handle 34 only when the latter is pulled. The cable end is thus normally free to move to accommodate changes in length caused by temperature differentials or by flexure of the supporting structure thereby avoiding accidental operation of the device 11 to which it is connected. The conical surface of the collet 45 has eight ball–receiving grooves between which are longitudinal splits extending approximately five–sixths of the length of the collet so that it forms an eight–jawed chuck around the cylinder 29. As shown, the device comprises a quick release mechanism for an aircraft braking parachute attached to a ball–ended clevis 25 which is retained against a fixed curved arm 14 by a rotatable eccentric 17 locked by a prong on a pivoted arm 20. The arm 20 is loaded by a spring 24 and attached to the cable 12 so that pulling the latter allows the eccentric to rotate and release the clevis. The cable is tensioned by a stack of three springs 52 acting between a flange on the cylinder 29 and an end cap on the collet 45, which is thus urged to its open position against an abutment ring 40 held in the housing 38. The collet has an annular guide flange which fits the extension 35 and holds a spring 55 against a collar pinned to the end of the extension 35 so that the latter is also urged against the ring 40.

0) CH432144A – FOERDERKETTE

69) Family number: 29630 (CH432144A) © PatBase

Title: FOERDERKETTE

Priority: GB19630030090 19630730

Family:

Publication number	Publication date	Application number	Application date
AU4715764 A1	19660127	AU19640047157	19640721
BE651185 A	19641116		19640730
CH432144 A	19670315	CH19640009832	19640727
ES302624 A1	19650116	ES19640302624	19640730
NL6408479 A	19650201	NL19640008479	19640724
SE320027 B	19700126	SE19640009182	19640729

Probable Assignee: FESHOLOW PRODUCTS LTD

Assignee(s):(std)**:** FISHER AND LUDLOW LTD ; FISHOLOW PROD LTD ; JOHN J RAUSCH

Assignee(s): FISHOLOW PRODUCTS LTD ; FESHOLOW PRODUCTS LTD ; FISHER AND LUDLOW LIMITED

Inventor(s):(std)**:** JOHN BARCLAY ORWIN OLAF ; ORWIN O

Inventor(s): ALAI JOHN BARCLAY ORWIN ; BARCLAY ORWIN OLAF JOHN

International class (IPC 8–9)**:** B65G17/38 B65G19/20 B65G39/20 F16G13/06 F16G13/10 (Advanced/Invention); B65G17/30 B65G39/10 F16G13/00 (Core/Invention)

International class (IPC 1–7)**:** B65G17/20 B65G17/38 F16G13/10

CPC: B65G39/20 B65G17/38 B65G17/385 B65G2201/02 B65G2201/06 F16G13/06 F16G13/10

European class: B65G17/00 B65G17/38 B65G17/38B B65G39/20 F16G13/06 F16G13/10 L65G201/02 L65G201/06 L65G812/02F1D4D

Classification Explorer

Abstract:
Source: CH432144A (Claim 1) 1. Foerderkette nach Patentanspruch, dadurch gekennzeichnet, dass der Zentriwinkel der nicht kreisfoermigen Oberflaeche (21) des Bolzens (13, 14) zwischen 80 und 100 betraegt.

Machine translation: (Claim 1) 1 Foerderkette to claim, characterized in that the central angle of non–circular surface (21) of the bolt (13, 14) between 80 and 100.

70) Family number: 107961 (US3667112A) © PatBase

Title: PROCESS FOR MAKING COUPLINGS OF REDUCED SIZE AND CAPABLE OF TRANSMITTING HIGH MECHANICAL STRESSES BETWEEN AN ARMORED FLEXIBLE MEMBER AND A RIGID ELEMENT

Priority: FR19690010365 19690403 US19700025118 19700402 US19710181186 19710916

Family:

Publication number	Publication date	Application number	Application date
BE748056 A	19700831		00000000
BE748056 A1	19700831	BE19700748056	19700327
CA922651 A1	19730313	CA19700079207	19700403
DE2015758 A1	19701015	DE19702015758	19700402
FR2040579 A5	19710122	FR19690010365	19690403
GB1286751 A	19720823	GB19700014850	19700326
JP50027609 B4	19750909	JP19700028522	19700403
NL170047 B	19820416	NL19700004684	19700402
NL170047 C	19820916	NL19700004684	19700402
NL7004684 A	19701006	NL19700004684	19700402
SU458997 D	19750130	SU19701426569	19700403
US3667112 A	19720606	US19700025118	19700402
US3799587 A	19740326	US19710181186	19710916

Probable Assignee: INST FRANCAIS DU PETROLE

Assignee(s):(std)**:** P O EKSTROM ; INST FRANCAIS DU PETROL ; INST FRANCAIS DU PETROLE

Assignee(s): INSTITUT FRANCAIS DU PETROLE DES CARBURANTS AND LUBRIFIANTS 1 ET 4 AVENUE DE BOIS PREAU 92 RUEIL MALMAISON FRANCE ; INSTITUT FRANCAIS DU PETROLE DES CARBURANTS ET LUBRIFIANTS ; INSTITUT FRANCAIS DU PETROLE DES CARBURANTS ET LUBRIFIANTS TE RUEIL MALMAISON FRANKRIJK ; INST FRANCAIS DU PETROLE DES CARBURANTS ET LUBRIFIANTS ; INST FRANCAIS DU PETROLE DES CARBURANTS ET LUBRIFIANTS FR ; PIERRE GROLET ; REMI REYNARD ; IFP INSTITUT FS PETROLE ; INSTITUT FRANCAIS DU PETROLE ; INSTITUT FRANCAIS DU PETROLE DES CARBURANTS AND ; ANDRE CHEVALIER ; FRANCAIS DU PETROLE DES CARBURANTS AND LUBRIFIANTS 1 ET 4 AVENUE DE BOIS PREAU 92 RUEIL MALMAISON FRANCE INST ; FRANCAIS DU PETROLE DES CARBURANTS ET LUBRIFIANTS INST ; FRANCAIS DU PETROLE DES CARBURANTS ET LUBRIFIANTS TE RUEIL MALMAISON FRANKRIJK INST ; FRANCAIS DU PETROLE INST ; IFP INST FS PETROLE

Inventor(s):(std)**:** CHEVALIER A ; CHEVALIER ANDRE ; GROLET P ; GROLET PIERRE ; REYNARD R ; REYNARD REMI

Inventor(s): ANDRE CHEVALIER ; REYNARD R FR ; PIERRE GROLET ; REMI REYNARD ; GROLET P FR ; CHEVALIER A FR

International class (IPC 8–9)**:** B21D39/04 F16L33/01 F16L33/20 F16L33/207 (Advanced/Invention); B21D39/04 F16L33/01 F16L33/20 (Core/Invention)

International class (IPC 1–7)**:** B21D22/00 B21D39/00 B21D39/04 B23P11/02 F16G F16L31/00 F16L33/00 F16L33/20 F16L39/00

CPC: Y10T29/49913 Y10T29/49927 F16L33/2075 F16L33/01 F16L33/2078 F16L33/2076

European class: F16L33/01 F16L33/207B2B F16L33/207B2D F16L33/207B4

US class: 285/124.1 285/13.7R 285/149 285/222.1 285/222.2 285/256 29/508 29/516 295/160 295/80

Classification Explorer

Cited documents: US3529853 A, US3423109 A, US3217282 A, US3112937 A, US3004779 A, US2535460 A, US2463293 A, US2452728 A, US2440668 A, US2273398 A, US1886247 A, US1857436 A, GB667181 A, FR1458100 A, FR1142463 A,

Forward Citations: WO07144553, US9810353, US9689514, US9534719, US8287005, US8056935, US7967030, US7458617, US7303213, US6938932, US6817082, US4000920, US3936118, US2010059992, US2009322077, US2009102702, US2008047625, US2006082140, US2006066102, US2002190522, US2002189698, JP57168605, GB2125505, FR2787549, FR2443014, EP1867905, EP0907049, EP0267063,

Abstract:
Source: US3667112A A process for making a connecting element, made of a hard material and provided with a jagged external wall, integral with one end of a flexible member having at least one armoring consisting of metallic wires, comprising the steps of covering said connecting element with an anchoring sleeve made of a material of lower hardness than that of the material constituting the armoring and said element, laying the armoring onto said anchoring ring, covering the armoring with a compression sleeve of lower hardness than that of the armoring and drawing the assembly of the connecting element, the armoring and said compression ring through a die, thereby producing through a great reduction in the diameter of said compression ring, a penetration of said armoring into said anchoring ring and into said compression ring and at the same time an inlaying of the material forming said anchoring ring between the jags of said jagged external wall of the connecting element.

0) DE8407451U1 –

71) Family number: 16493716 (DE8407451U1) © PatBase

Priority: DE19840007451U 19840310

Family:

Publication number	Publication date	Application number	Application date
DE8407451 U1	19840614	DE19840007451U	19840310

Probable Assignee: MURR PLASTIK GMBH 7155 OPPENWEILER DE

Assignee(s): MURR PLASTIK GMBH 7155 OPPENWEILER DE

International class (IPC 8–9): F16G13/16 H02G11/00 (Advanced/Invention); F16G13/00 H02G11/00 (Core/Invention)

International class (IPC 1–7): F16G13/16 H02G11/00

CPC: H02G11/00 F16G13/16

European class: F16G13/16 H02G11/00

Classification Explorer

Forward Citations: DE3611575, DE3516448,

Abstract:
Source: DE8407451U1 (Claim 1) 1. Energiefuehrungskette fuer die Zufuhr von Verbrauchsmit– teln al@er Art zu auf Bahnen bewegten Aggregaten, bei der Ener@ieleitungen in durchgehenden Innenraeumen einer aus einer Vielzahl von Kettengliedern aus Kunststoff bestehenden Gelenkkette angeordnet sind und bei der die gelenkig miteinander verbundenen Kettenglieder jeweils zwei Aussenlaschen aufweisen, die im Bereich ihrer Oberund Unterkanten jeweils mittels eines quergerichteten Steges miteinander verbunden sind und die an ihren beiden stirnseitigen Enden in zueinander versetzte Befestigungslaschen zum Anlenken gleicher Kettenglieder versehen sind, dadurch gekennzeichnet, dass die beiden Aussenlaschen (12,13) nur mit dem an den Unterkanten angeordneten Steg (11) einstueckig verbunden sind, dass die Aussenlaschen (12,13) im Bereich ihrer Oberkanten auf einander ausgerichtete Aufnahmen aufweisen, in die ein als getrenntes Bauteil ausgebildeter Steg (32) einsetzbar ist und dass der Steg (32) und die Aussenlaschen (12,13) mit aufeinander abgestimmten und wieder loesbaren Rastele– menten (25,28, 41,44) zu ihrer Verbindung und Trennung versehen sind.

Machine translation: (Claim 1) 1 Energiefuehrungskette for the supply of Verbrauchsmit–stuffs al @ he kind of moved on railways units, ieleitungen in energy @ in continuous inside free one are arranged in a plurality of chain links made of plastic link chain and in having the pivotably interconnected chain links two outer plates that are in their Oberund lower edges each by a transverse bridge connected to each other and at their two ends in mutually offset mounting tabs on the steering wheel is the same chain links are provided, wherein the two outer plates (12,13) only with the lower edges crosspiece (11) integrally connected are that the outer plates (12,13) in their upper edges to each other–oriented recordings, into which formed as a separate component, web (32) can be inserted and that the web (32) and the outer plates (12,13) with coordinated and releasable detent elements (25.28, 41.44) provided to their union and separation are.

0) US2529617A – CABLE PULLING AND TIGHTENING DEVICE

72) Family number: 22318121 (US2529617A) © PatBase

Title: CABLE PULLING AND TIGHTENING DEVICE

Priority: US19480017427 19480327

Family:

Publication number	Publication date	Application number	Application date
US2529617 A	19501114	US19480017427	19480327

Probable Assignee: KUNKEL CHARLES A

Assignee(s):(std)**:** KUNKEL CHARLES A

Inventor(s):(std)**:** KUNKEL CHARLES A

International class (IPC 8–9)**:** F16G11/12 (Advanced/Invention); F16G11/00 (Core/Invention)

CPC: F16G11/12 Y10T29/53896 Y10T74/20426 Y10T74/20468 Y10T74/2066

European class: F16G11/12

US class: 254/245 29/267 74/502 74/503 74/531

Classification Explorer

Cited documents: US988869 A, US600242 A, US451024 A, US386478 A, US2484400 A, US2174489 A, US166553 A, US165536 A, US1201146 A,

Forward Citations: US6694841, US6446936, US6149132, US5957432, US2750994, US2004000212,

Abstract:
Source: US2529617A (Claim 1) What is claimed is: A brake cable pulling device which comprises a compression rod, a jack housing mounted on and slidable along the rod, means for locking the jack housing to the rod against movement in one direction, means including a handle for advancing the jack housing along the rod in the opposite direction, means on the jack housing for securing a brake cable thereto, means at the end of the rod from which the jack housing is advanceable for securing the rod to a brake drum comprising a screw threaded in an axial bore in said end of the rod, a transverse bar attached to said screw remote from said rod, a pair of jaw members mounted on said transverse bar, at least one of said jaw members being pivotally mounted on said transverse har, each of said jaw members having a portion on one side of the transverse bar engageable with said end of the rod and a gripping face disposed on the other side of the transverse bar, said rod being rotatable in said jack housing to drive said end of the rod against the jaw members to urge the gripping faces thereof together.

0) US3335211A – PROCESS FOR MELT SPINNING LINEAR POLYESTER MODI...

73) Family number: 25337982 (US3335211A) © PatBase

Title: PROCESS FOR MELT SPINNING LINEAR POLYESTER MODIFIED WITH AN OXYSILICON COMPOUND

Priority: FR19600831150 19600625 US19590823138 19590626 US19670621147 19670307

Family:

Publication number	Publication date	Application number	Application date
DE1260770 B	19740221	DE19601260770	19600625
DE1260770 C2	19740221	DE19601260770	19600625
FR1261056 A	19610512	FR19600831150	19600625
GB889851 A	19620221	GB19600022408	19600627
NL128092 C	00000000		00000000
NL253093 A	00000000		00000000
US3051212 A	19620828	US19590823138	19590626
US3335211 A	19670808	US19670621147	19670307

Probable Assignee: DU PONT

Assignee(s):(std)**:** DU PONT

Assignee(s): E I DU PONT DE NEMOURS AND CO ; E I DU PONT DE NEMOURS AND COMPANY ; EI DU PONT DE NEMOURS AND CO

Inventor(s):(std)**:** DANIELS WILLIAM W ; DANIELS WILLIAM WARD ; MEAD EDWARD J ; REESE CECIL E

International class (IPC 8–9)**:** B29D29/00 B60C9/00 C08G63/68 C08G63/80 C08J5/04 C08L67/02 D01F6/62 (Advanced/Invention); B29D29/00 B60C9/00 C08G63/00 C08J5/04 C08L67/00 D01F6/62 (Core/Invention)

International class (IPC 1–7)**:** B29H17/00 B60C9/00 C08C17/16 C08G63/26 C08G63/68 C08J5/04 D01F6/62 D01F6/92 F16G5/22

CPC: D01F1/10 Y10S57/902 C08J5/046 C08J5/04 B29D29/00 B60C9/0042 C08G63/68 C08G63/80 C08J2321/00 C08L67/02 D01F6/62

European class: B29D29/00 B60C9/00F C08G63/68 C08G63/80 C08J5/04 C08J5/04L C08L67/02 D01F6/62 M08J321/00

US class: 152/451 152/556 264/210.8 264/211.24 264/342R 264/342RE 474/260 474/263 524/493 525/446 528/279 528/283 528/285 528/308.2 57/902

Classification Explorer

Cited documents: US2863855 A, US2863854 A, US2512433 A, US2450948 A, US2436979 A, JP38006898 A2, GB795782 A, GB792011 A,

Forward Citations: WO9836027, WO9702372, WO8908160, WO03008478, WO03000968, US9373737, US7846544, US7189794, US6818293, US6706842, US6342578, US6214264, US6037055, US6013368, US5968649, US5817740, US5736243, US5591523, US5494993, US5478909, US5300626, US5180793, US4966740, US4839124, US4833032, US4827999, US4710155, US4374960, US4348314, US4327207, US4296640, US4197384, US4122063, US4106613, US4025592, US4016142, US3991035, US3963678, US3959215, US3919025, US3869427, US3847029, US3793132, US3525206, US3446766, US3419060, US3416383, US3413797, US3406152, US3385831, US3325333, US3256744, US3216187, US2010292375, US2009324948, US2007173585, US2004214984, US2004143054, KR100906585, JP48064223, GB2245275, GB2245275, FR2660663, FR2290511, FR2290511, EP3115409, EP2482338, EP2482337, EP2482336, EP2482335, EP2482334, EP2251371, EP1425444, EP0842312, EP0550034, EP0543298, EP0413327, EP0262824, DE4111066, DE3602490, DE3337349, DE2161967, DE19951067, DE102011009821, DE102011009820, DE102011009819, DE102011009818, DE102011009817, DE102009021566, DE10129688, BE1006532, AU738936,

Abstract:
Source: US3335211A ABSTRACT OF THE DISCLOSURE A process is disclosed for preparing and melt spinning glycol terephthalate polyester into textile fibers which provide fabrics having improved resistance to pilling.

Anhydrous polyester modified with an oxysilicon compound is prepared to have a melt viscosity at 275 degrees C. of about 1000 to 6000 poises, is melt spun to form fibers, and the fibers are exposed to moisture. Fibers are readily prepared in this way which have a relative viscosity of to 17 needed to improve the pill resistance of fabrics. This is in contrast to unmodified polyester of the same relative viscosity which has such a low melt viscosity during melt spinning, in the range of only 500 to 1000 poises, that it is quite difficult to maintain satisfactory product uniformity and freedom from filament discontinuities. Cross–references to related applications This is a continuation–in–part of our copending application Serial No. 450,197 which was filed Apr. 22, 1965, as a continuation–in–part of application Ser. No. 130,764 (now abandoned) filed Aug. 11, 1961, as a continuation–in–part of our application Ser. No. 815,808, filed May 26, 1959 (now abandoned). Specification

0) GB9803377A – SECURING DEVICES FOR WIRES ETC

74) Family number: 13484154 (GB9803377A) © PatBase

Title: SECURING DEVICES FOR WIRES ETC

Priority: GB19970003910 19970225

Family:

Publication number	Publication date	Application number	Application date
GB2322408 A1	19980826	GB19980003377	19980219
GB2322408 B2	20010606	GB19980003377	19980219
GB9703910 A0	19970416	GB19970003910	19970225
GB9803377 A0	19980415	GB19980003377	19980219

Probable Assignee: GRIPPLE LTD

Assignee(s):(std)**:** GRIPPLE LTD

Assignee(s): GRIPPLE LIMITED

Inventor(s):(std)**:** SHAWCROSS BRIAN EDWARD ; FACEY HUGH DAVID

Inventor(s): HUGH DAVID FACEY ; BRIAN EDWARD SHAWCROSS

International class(IPC 8–9)**:** F16G11/04 F16G11/10 (Advanced/Invention); F16G11/00 (Core/Invention)

International class(IPC 1–7)**:** F16G11/04

CPC: F16G11/106 F16G11/108 F16G11/146

European class: F16G11/04 F16G11/10

Classification Explorer

Cited documents: WO9736123 A1, WO9530844 A1, GB704091 A, GB2240581 A1, GB2210517 A1,

Forward Citations: WO03012316, WO0073159, USD740631, US9670986, US8112847, US6543990, US6524040, US6485252, US6240854, US6135031, US2010279540, GB2492621, GB2492621, GB2440533,

Abstract:
Source: GB2322408A A securing device (10) for wires and of the type comprising a body (11) having therethrough twin bores (12A, 12B) from end–to–end separated by a thin wall (13), respective inlets (14A, 14B) to the bores being at opposite ends of the body and, likewise, outlets (15A, 15B) from the bores, channels (16A, 16B) within the body one to each side of the twin bores and each inclined towards the inlet end of a respective bore and breaking into that bore at the middle of the body, a wedge member (17A, 17B) movable along each channel, and an abutment (18A, 18B) adjacent the outlet of each respective bore, is characterized in that at least one of the abutments within the body is provided with a hole (19A, 19B), and a screw (20A, 20B) extends through the hole for engagement of the inner end of the screw with the respective wedge member the end of the screw remote from the wedge member being provided with means (21A, 21B) for effecting rotation of the screw. Preferably, as shown, each abutment is provided with a hole and screw as aforesaid so that a loop or "eye" (24) can be formed without having to ascertain which inlet must be entered first.

0) DE7712197U1 –

75) Family number: 16553048 (DE7712197U1) © PatBase

Family:

Publication number	Publication date	Application number	Application date
DE7712197 U1	19770818	DE19770112197U	19770419

Probable Assignee: HOFMANN LUDHOF TECHNIK

Assignee(s):(std)**:** HOFMANN LUDHOF TECHNIK ; LUDWIG HOFMANN LUDHOF TECHNIK 7580 BUEHL

International class (IPC 8–9)**:** B60P7/06 F16G11/12 (Advanced/Invention); B60P7/06 F16G11/00 (Core/Invention)

International class (IPC 1–7)**:** B60P7/06 F16G11/12

Classification Explorer

Abstract:
Source: DE7712197U1 (Claim 1) Durchmesser als die StUtzwalze bzw."rolle (15, 45) auf– weist. 5.

Machine translation: (Claim 1) Diameter than the nozzle–roll or "role (15, 45)–on exhibits. 5th

0) US2014017429A – THERMOPLASTIC RESIN COMPOSITION HAVING HIGH DUR...

76) Family number: 52077635 (US2014017429A) © PatBase

Title: THERMOPLASTIC RESIN COMPOSITION HAVING HIGH DURABILITY

Priority: CN201280015846 20120329 EP20120764120 20120329 JP20110081232 20110331 JP20130507849 20120329 US20130007818 20130926 JP20130507850T 20120329 WO2012JP59281 20120329 WO2012JP59285 20120329 US20160338025 20161028 US20130007931 20130926 US20170644228 20170707

Family:

Publication number	Publication date	Application number	Application date
CN103492495 A	20140101	CN201280015472	20120329
CN103492495 B	20161221	CN201280015472	20120329
CN103502362 A	20140108	CN201280015846	20120329
CN103502362 B	20170222	CN201280015846	20120329
CN106947150 A	20170714	CN201611254567	20120329
DE602012022240 D1	20161006	DE201260022240T	20120329
EP2692801 A1	20140205	EP20120764120	20120329
EP2692801 A4	20141224	EP20120764120	20120329
EP2692801 B1	20160824	EP20120764120	20120329
EP2692802 A1	20140205	EP20120764382	20120329
EP2692802 A4	20141217	EP20120764382	20120329
IN08391DN2013 A	20141219	IN2013DN08391	20130926
IN08392DN2013 A	20141219	IN2013DN08392	20130926
JP2012133923 A1	20140728	JP20130507849T	20120329
JP2012133927 A1	20140728	JP20130507850T	20120329
JP2017186571 A2	20171012	JP20170122775	20170623
JP5870090 B1	20160224	JP20130507849T	20120329
JP6193119 B1	20170906	JP20130507850T	20120329
KR20140012125 A	20140129	KR20137026525	20120329
KR20140024350 A	20140228	KR20137028526	20120329
TW201247762 A	20121201	TW20120111319	20120330
TW201247776 A	20121201	TW20120111314	20120330
TWI548695 B	20160911	TW20120111314	20120330
TWI597315 B	20170901	TW20120111319	20120330
US2014017429 AA	20140116	US20120007931	20120329
US2014018501 AA	20140116	US20120007818	20120329
US2017044369 AA	20170216	US20160338025	20161028
US2017313878 AA	20171102	US20170644228	20170707
US9624372 BB	20170418	US20120007818	20120329
WO12133923 A1	20121004	WO2012JP59281	20120329
WO12133927 A1	20121004	WO2012JP59285	20120329

Probable Assignee: NITTA CORP

Assignee(s):(std)**:** KASAZAKI TOSHIAKI ; MATSUMOTO AKIHIKO ; NITTA CORP ; NITTA CORPORAITON ; ONISHI YOKO ; UEGAKI SHINSUKE ; SHIMIZU SHOJI ; YOSHIDA TAKAHIKO ; NITTA KK

Inventor(s):(std)**:** KASAZAKI TOSHIAKI ; MATSUMOTO AKIHIKO ; ONISHI YOKO ; SHIMIZU SHOJI ; UEGAKI SHINSUKE ; YOSHIDA TAKAHIKO

Agent(s): GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER; BIRCH STEWART KOLASCH AND BIRCH LLP; GOTO YUKIHISA

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 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 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

International class (IPC 8–9): A41F9/00 B29D29/00 B65G15/32 C08J5/00 C08L101/00 C08L23/08 C08L23/16 C08L23/26 C08L53/02 C08L67/02 C08L75/04 C08L75/06 C08L75/12 C08L77/02 C08L77/06 C08L77/12 F16G1/14 F16G5/12 F16L11/04 (Advanced/Invention); C08G69/40 C08G69/44 C08L23/16 C08L53/02 C08L77/02 (Advanced/Non–invention)

CPC: C08L75/06 C08L75/12 B65G15/32 F16G1/14 C08G69/40 C08G69/44 C08L23/0869 C08L53/025 C08L67/02 C08L67/025 C08L77/02 C08L77/06 C08L77/12 C08L2207/04 Y10T428/1372 C08L23/16 C08L23/26 C08L75/04 C08L101/00

European class: C08L101/00 C08L23/08C3

US class: 428/36.4 525/130 525/66

Classification Explorer

Cited documents: US6964626 BA, US6231965 BA, US6207723 BA, US5693714 A, US5594062 A, US5274023 A, US5149739 A, US4975207 A, US4943603 A, US4500671 A, US3882191 A, US2014017429 AA, US2012053020 AA, US2010260991 AA, US2010036028 AA, US2009275690 AA, US2009242094 AA, US2004242737 AA, JP9087477 A2, JP8157664 A2, JP8157664, JP6234897 A2, JP62243631 A2, JP62243631, JP5287141 A2, JP5287140 A2, JP5287140, JP2160868, JP2011121689 A2, JP2011052210 A2, JP2009197896 A2, JP2008266354 A2, JP2008266354, JP2008260887 A2, JP2008260887, JP2008239842 A2, JP2008239842, JP2007254567 A2, JP2007254567, JP2004107440 A2, JP2002275360 A2, JP2001247760 A2, JP2001247760, JP2001192533 A2, JP2001192533, JP11349804, JP11349804, JP11100512, JP11100512, JP10103411, JP10103411, EP2228325 A1, DE19826343 A1,

DE102006014985 A1

CN102002233 A,

Forward Citations: US9752018, US9670351, US9624372, US9334984, US2017107363, US2014018501, TWI483994, JP2015520264, CN105585811,

Abstract:
Source: US2014017429A The thermoplastic resin composition according to the present invention includes a thermoplastic resin (A), and a modified ethylene copolymer (B) dispersed and contained therein, wherein the modified ethylene copolymer (B) in the thermoplastic resin composition has an average dispersed particle aspect ratio of 1 to 3.5, and an average dispersed particle diameter of not more than 3 mum. The modified ethylene copolymer (B) is preferably a copolymer, modified with an unsaturated carboxylic acid or a derivative thereof, of ethylene with at least one monomer component selected from the group consisting of (i) olefin components except for ethylene, (ii) diene components and (iii) ester components having an ethylenically unsaturated group.

0) EP2570353B1 – SCHLIESS– UND OEFFNUNGSSYSTEM EINER VERPACKUNG ...

77) Family number: 53201760 (EP2570353B1) © PatBase

Title: SCHLIESS– UND OEFFNUNGSSYSTEM EINER VERPACKUNG SYSTEM FOR CLOSING AND/OR OPENING PACKAGING

Priority: EP20120184338 20120913 WO2011IB54055 20110916

Family:

Publication number	Publication date	Application number	Application date
DE602012016212 D1	20160519	DE201260016212T	20120913
EP2570353 A1	20130320	EP20120184338	20120913
EP2570353 B1	20160330	EP20120184338	20120913

Probable Assignee: ECOWASTE SA

Assignee(s):(std)**:** ECOWASTE SA

Inventor(s):(std)**:** PINEAU MATHIAS

Agent(s): GROSFILLIER PHILIPPE

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

International class (IPC 8–9): A45C13/10 B65B69/00 B65D33/16 B65D33/28 B65D90/56 F16G11/14 (Advanced/Invention)

CPC: A45C13/1046 F16G11/14 B65B69/0083

Classification Explorer

Cited documents: WO07052328 A1, US2858051 A, JP2002362680 A2,

DE202010004704 U1

Forward Citations: FR3015959, EP2891616,

Abstract:
The system has two identical–shaped elements including two flexible thread–like parts (2, 3) e.g. cords, comprising two guidance parts i.e. loops, guiding toward one of ends of the thread–like parts, respectively. One of the guidance parts is adapted and crossed by one of the thread–like parts of one of the elements. The guidance part includes a pulley that is fixed at the end of the thread–like part, so that the other thread–like part is slid in a passage, which is defined between a wheel of the pulley and the end of the former thread–like part. An independent claim is also included for an assembly including a closing and/or opening system and a bag.

0) GB1259043A – SECURING ROPE IN A TAPER SLEEVE.

78) Family number: 735018 (GB1259043A) © PatBase

Title: Securing rope in a taper sleeve.

Priority: GB19700011620 19700311

Family:

Publication number	Publication date	Application number	Application date
GB1259043 A	19720105		19700311

International class (IPC 8–9): E01D19/14 E02F9/14 F16G11/00 (Advanced/Invention); E01D19/00 E02F9/14 F16G11/00 (Core/Invention)

International class (IPC 1–7): E01D11/00 E02F9/14 F16C1/20 F16G11/04

CPC: E02F9/2016 E01D19/14 F16G11/048 F16G11/05

European class: E01D19/14 E02F9/20D F16G11/00

Classification Explorer

Abstract:
Source: GB1259043A 1,259,043. Securing rope in a taper sleeve. NAUCHNO – ISSLEDOVATELSKY I OPYTNO–KONSTRUKTORSKY I N S T I T U T AUTOMATIZATSII CHERNOI METALLURGII. 11 March, 1970, No. 11620/70. Heading D1T. The end of a multi–layered wire rope 1 is held together, e.g. by welding, and the rope is held in a clamp 2 whilst a tapered sleeve 7 is placed over its end. The sleeve 7 contains a soft metal, e.g. copper, gasket 8. A washer 12 is placed over the rope end, which is held together by a flexible strap 11, the welded portion being cut away with an abrasive disc. Conical rings 13 to 18, having wedge–like ribs in their outer surfaces, are successively driven into the rope end by a hydraulic cylinder 20, expanding the rope. Strap 11 and washer 12 are removed, and retraction of piston 19 draws sleeve 7 onto the spread rope end by means of spring–loaded levers 21, squeezing the rope end so that the rings, whose material has a lower yield point than the wire's, deform to fill the interstices between the wires of the rope.

0) US2007169380A – DEVICE FOR BLOCKING FLEXIBLE STRANDS

79) Family number: 34916121 (US2007169380A) © PatBase

Title: DEVICE FOR BLOCKING FLEXIBLE STRANDS

Priority: FR20060000694 20060125 FR20060600694 20060125

Family:

Publication number	Publication date	Application number	Application date
EP1813163 A1	20070801	EP20060026401	20061220
FR2896384 A1	20070727	FR20060000694	20060125
FR2896384 B1	20080704	FR20060000694	20060125
JP2007195983 A2	20070809	JP20070013753	20070124
US2007169380 AA	20070726	US20070626604	20070124
US7946007 BB	20110524	US20070626604	20070124

Probable Assignee: SALOMON SAS

Assignee(s):(std)**:** SALOMON SA ; SALOMON SAS

Assignee(s): SALOMON SOC ANONYME SA ; SALOMON SA SOCIETE ANONYME ; SALOMON SOCIETE ANONYME ; SALOMON S A ; SALOMON S A S

Inventor(s):(std)**:** BORSOI BRUNO

Inventor(s): BRUNO BORSOI

Agent(s): SALOMON SA; FUJINO IKUO; TAKANASHI NORIMICHI; KATO NOBUAKI; OCHI TAKAO; OKABE MASAO; USUI SHINICHI; OKABE YUZURU; GREENBLUM AND BERNSTEIN PLC

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 SE SI SK TR YU

International class (IPC 8–9)**:** A43B5/00 A43B5/04 A43C1/00 A43C11/00 A43C11/16 A43C7/00 A43C7/08 F16G11/10 (Advanced/Invention); A43B5/00 A43B5/04 A43C1/00 A43C11/00 A43C7/00 F16G11/00 (Core/Invention)

CPC: Y10T24/3713 Y10T24/3716 Y10T24/3718 Y10T24/3944 Y10T24/3951 Y10T24/3969 F16G11/106 A43C7/08

European class: A43C7/08 F16G11/10

US class: 114/218 24/134.00P 24/134.0KB 24/134KB 24/134P 24/136.00R 24/136R 24/712.5 24/712.6 24/712.7 36/114 36/114P 36/50.1

Classification Explorer

Cited documents: US6802439 BB, US6775928 BB, US6339867 BA, US5477593 A, US4807333 A, US4766835 A, US3765061 A, US3204311 A, US2008250618 AA, US2006174460 AA, US2005005477 AA, US1520716 A, JP7033105 U1, JP3106517 U, JP2006075179 A2, JP2005118430 A2, GB2334661 A1, FR2827486 A1, EP1103198 A1, DE3920266 A1,

Forward Citations: WO17178337, US9808050, US9707119, US9402437, US9241539, US9185948, US8739373, US2014208551, US2011308110, US2010192411, KR101121796, FR2985890, EP2620071, EP2620070,

Abstract:
Source: US2007169380A A blocking device adapted to act on at least one lace or strand, the blocking device including a body, a first cavity defining a first pathway for the strand, the device including a first blocking member, a first guide for guiding the first blocking member relative to the body, and first elastic member to bias the first blocking member in a direction to press the strand against a surface of the pathway, the device functioning by cooperation of a first blocking member with the first pathway for blocking the strand by a wedging effect. The first cavity is open, so as to enable the strand to be inserted and disengaged in a direction other than that of the pathway.

0) ES2228223B – CONECTORES DE HILOS, Y SIMILARES, ESPECIFICOS C...

80) Family number: 31937171 (ES2228223B) © PatBase

Title: CONECTORES DE HILOS, Y SIMILARES, ESPECIFICOS CONTRA INCENDIOS

Priority: ES20020002125 20020916

Family:

Publication number	Publication date	Application number	Application date
ES2228223 AA	20050401	ES20020002125	20020916
ES2228223 BB	20061016	ES20020002125	20020916

Probable Assignee: GRIPPLE LTD

Assignee(s):(std)**:** GRIPPLE LTD

Assignee(s): GRIPPLE LIMITED

Inventor(s):(std)**:** BOALER DEREK ; FACEY HUGH DAVID ; SHAWCROSS BRIAN EDWARD

International class (IPC 8–9)**:** F16G11/04 F16G11/10 (Advanced/Invention); F16G11/00 (Core/Invention)

International class (IPC 1–7)**:** F16G11/04 F16G11/10 F16G11/4

Classification Explorer

Cited documents: WO9530844, WO03012316, GB2210517,

Abstract:
Source: ES2228223B Conectores de hilos, y similares, especificos contra incendios, (10), del tipo que tiene taladros dobles (12) dentro de un cuerpo metalico (11), al menos uno de los cuales esta asociado con medios de cuna (14), que previene la extraccion de un hilo (20) o hebra de suspension en el sentido opuesto al de la insercion, y los medios de cuna (14) estan fabricados de material ceramico. Los medios de cuna (14) pueden asociarse con ambos taladros (12) y son preferentemente cunas con nervaduras (15) para acoplamiento con hilos (20) insertados en los taladros, estando guiadas las cunas dentro de canales (16) que convergen hacia los extremos de entrada (17) de taladros respectivos, con muelles de compresion (18) entre topes (19) y los medios de cuna (14) para empujar a estos ultimos hacia una pared fina intermedia (13) entre los taladros, y, aunque estan fabricados preferentemente de acero inoxidable, los topes (19) pueden estar fabricados de plastico, puesto que una vez que los medios de cuna han sido asegurados en acoplamiento de agarre con hilos, los topes (19) y los muelles (18) son redundantes.

0) DE4105725C1 – SECURING BELT TENSIONING MECHANISM – USES ROLLE...

81) Family number: 8665097 (DE4105725C1) © PatBase

Title: SECURING BELT TENSIONING MECHANISM – USES ROLLERS URGED TOWARDS EACH OTHER BY TURNING KNOB

Priority: DE19914105725 19910223

Family:

Publication number	Publication date	Application number	Application date
DE4105725 C1	19920507	DE19914105725	19910223

Probable Assignee: MERCEDES BENZ 7000 STUTTGART DE AG

Assignee(s): MERCEDES BENZ 7000 STUTTGART DE AG ; MERCEDES BENZ AKTIENGESELLSCHAFT 7000 STUTTGART DE

Inventor(s): BAUMERT HEINZ 7032 SINDELFINGEN DE

International class (IPC 8–9): A44B11/06 A44B11/25 B65D63/00 F16G11/00 (Advanced/Invention); A44B11/00 A44B11/25 B65D63/00 F16G11/00 (Core/Invention)

International class (IPC 1–7): A44B11/06 A44B11/18 B65D63/10 B65H23/26 B65H75/34 F16G11/00

CPC: B65D63/00 A44B11/065 A44B11/2557

European class: A44B11/06B A44B11/25B8C2 B65D63/00 F16G11/00

Classification Explorer

Cited documents: US3888488 A, EP0119891 A1, DE3919399 C1,

Forward Citations: WO10097555, US9067088, FR2942621, DE4326049, DE4326049, DE102005033386, DE102005033386, CN102405081,

Abstract:
Source: DE4105725C1 The tensioner for a securing belt has a housing with four parallel rollers over which the belt is looped to make four loops. Two of the rollers can be adjusted for mutual spacing by a tension control knob (40) providing a single action tension control. The two rollers are mounted on sliding supports driven in opposing directions by rack and pinion drives. The control knob has a series of ratchet grips to secure the setting. USE/ADVANTAGE – One handed adjustment of tension, with even pressure on securing belt.

0) CH441891A – DISPOSITIVO DI BLOCCAGGIO PER FILO, CAVO, CORDA...

82) Family number: 25300363 (CH441891A) © PatBase

Title: Dispositivo di bloccaggio per filo, cavo, corda, nastro DISPOSITIVO DI BLOCCAGGIO PER FILO, CAVO, CORDA, NASTRO LOCKING DEVICE FOR WIRE, CABLE, ROPE, RIBBON (Machine translation)

Priority: CH19660015497 19661024

Family:

Publication number	Publication date	Application number	Application date
CH441891 A	19670815	CH19660015497	19661024

Probable Assignee: FACCHINETTI PIETRO

Assignee(s):(std)**:** FACCHINETTI PIETRO

Inventor(s):(std)**:** PIETRO FACCHINETTI

Inventor(s): FACCHINETTI PIETRO

International class (IPC 8–9): F16G11/10 (Advanced/Invention); F16G11/00 (Core/Invention)

International class (IPC 1–7): D06F53/00 F16G11/04

CPC: F16G11/106

European class: F16G11/10

Classification Explorer

Forward Citations: FR2324921,

Abstract:
Source: CH441891A [Source: Claim 1] 1. Dispositivo secondo la rivendicazione, caratterizzato da cio che detto organo di bloccaggio e costituito da una rotella zigrinata alla sua periferia. [Source: Claim 1] 1. Device according to claim, characterised by what this body and consists of a knob on its periphery.

0) US2009223200A – CHAIN WITH IDENTIFICATION APPARATUS

83) Family number: 66287435 (US2009223200A) © PatBase

Title: CHAIN WITH IDENTIFICATION APPARATUS

Priority: US20040512372 20041025 US20040825590 20040415 US20080317246 20081220 US20050255160 20051020 US20050059584 20050216 WO2003IB01031 20030313

Family:

Publication number	Publication date	Application number	Application date
US2009223200 AA	20090910	US20080317246	20081220
US7958715 BB	20110614	US20080317246	20081220

Probable Assignee: NATIONAL OILWELL VARCO LP

Assignee(s):(std)**:** ELLISON LEON ; KAMMANN RHEINHOLD ; KINERT NATHAN ; LAM CLIVE ; WORMS MANFRED ; MCCLUNG III GUY L ; NAT OILWELL VARCO LP

Assignee(s): NATIONAL OILWELL VARCO L P ; NATIONAL OILWELL VARCO LP

Inventor(s):(std)**:** WORMS MANFRED ; MCCLUNG III GUY L ; LAM CLIVE ; KINERT NATHAN ; KAMMANN RHEINHOLD ; KAMMANN REINHOLD ; ELLISON LEON

Agent(s): JEFFREY E DALY NATIONAL OILWELL VARCO; CONLEY ROSE PC

International class (IPC 8–9): F16G13/00 F16G15/12 H04B7/00 (Advanced/Invention); F16G13/00 H04B7/00 (Core/Invention)

European class: B07B1/42 B07B1/46 B07B1/46B10 B07B1/46B12 B07B13/18 E21B17/00M E21B19/06 E21B19/07 E21B19/16C E21B21/06N2 E21B44/00 E21B47/12M L07B230/01

US class: 340/10.1 59/78 59/82 59/84 59/93

Classification Explorer

Cited documents: WO9315561 A1, WO08033855 A2, WO02092245 A1, WO0206632 A2, US7698922 BA, US7587923 BA, US7000777 BB, US6944547 BB, US6923572 BB, US6892052 BB, US6825754 BA, US6820314 BB, US6759968 BB, US6688396 BB, US6670880 BA, US6641434 BB, US6604063 BB, US6480811 BB, US6392317 BA, US6347292 BA, US6333700 BA, US5973599 A, US5956658 A, US5698631 A, US5621647 A, US5608199 A, US5491637 A, US5360967 A, US5225996 A, US5221831 A, US5202680 A, US5157687 A, US5142128 A, US5107705 A, US5099437 A, US5099227 A, US4850009 A, US4818855 A, US4780599 A, US4742470 A, US4720626 A, US4701869 A, US4698631 A, US4578991 A, US4533823 A, US4497029 A, US4468959 A, US4202490 A, US4196418 A, US4061967 A, US2006243839 A9, US2006243829 AA, US2006131453 AA, US2006108465 AA, US2006108113 AA, US2005230110 AA, US2005230109 AA, US2005174241 AA, US2004239521 AA, US2004088129 AA, US2004074974 AA, US2003156033 AA, US2003090390 AA, US2002158120 AA, US2002035448 AA, US2002014966 AA, EP1052030 A2,

Forward Citations: US9816371, US9759061, US9726009, US9631470, US9631458, US9587487, US9562429, US9488046, US9453374, US9366134, US9359890, US9269199, US9243450, US9115573, US9103197, US9091124, US9085954, US9030324, US8961247, US8955301, US8951078, US8876672, US8833469, US2014273831, US2013098687, US2013029543, US2012329613, US2011175343, US2010200244, ES2550734, EP2568112,

Abstract:
Source: US2009223200A A link member (e.g. a chain link or an elevator link) having a body, the body having two spaced−apart ends, wave−energizable apparatus (one or more) on the link body, and, in one aspect, a wrap or wraps securing the wave−energizable apparatus to the link. This abstract is provided to comply with the rules requiring an abstract which will allow a searcher or other reader to quickly ascertain the subject matter of the technical disclosure and is submitted with the understanding that it will not be used to interpret or limit the scope or meaning of the claims, 37 C.F.R. 1.72(b).

0) GB2378999A – SUSPENDING EQUIPMENT USING WEDGE–TYPE LOCKING D...

84) Family number: 15720923 (GB2378999A) © PatBase

Title: SUSPENDING EQUIPMENT USING WEDGE–TYPE LOCKING DEVICE

Priority: GB20010020524 20010823

Family:

Publication number	Publication date	Application number	Application date
GB200120524 A0	20011017	GB20010020524	20010823
GB200130425 A0	20020206	GB20010030425	20011220
GB2378999 A1	20030226	GB20010030425	20011220

Probable Assignee: GRIPPLE LTD

Assignee(s):(std)**:** GRIPPLE LTD

Assignee(s): GRIPPLE LIMITED

Inventor(s):(std)**:** BOALER DEREK ; FACEY HUGH DAVID ; MAKIN JOHN ; SHAWCROSS BRIAN EDWARD

Inventor(s): HUGH DAVID FACEY ; JOHN MAKIN ; BRIAN EDWARD SHAWCROSS ; DEREK BOALER

International class (IPC 8–9): F16G11/10 F16G11/14 (Advanced/Invention); F16B13/08 F16B2/14 F21V21/008 F21V21/16 (Advanced/Non–invention); F16G11/00 (Core/Invention); F16B13/04 F16B2/02 F21V21/008 F21V21/14 (Core/Non–invention)

International class (IPC 1–7): F16G11/04

CPC: F16G11/106 F16G11/14 F16B2/14 F16B13/0808 F21V21/008 F21V21/16

European class: F16G11/10 F16G11/14 R16B13/08B R16B2/14 R21V21/008 R21V21/16

Classification Explorer

Cited documents: WO0148393 A1, US6058574 A, US3758922 A, GB2322435 A1, EP0861994 A2, DE19944135 A1,

Forward Citations: WO14064403, US9695908, GB2509807, GB2509807, EP2687732,

Abstract:
Source: GB2378999A A method of suspending equipment 20,32 from an overhead member 21 comprises providing at least two suspension strands 22 with means 23 for securing them to the overhead member 21, passing the free ends 25 of the strands 222 through a pair of eyes 24 on the equipment, or through a hole 30 in an elongate member 31 for supporting the equipment. After passing through the eyes 24 or holes 30, the free ends 25 of the strands 22 are passed through locking devices 26 of the type having a bore 27 associated with wedging means 28 preventing withdrawal of the respective strand in the opposite direction. Kits for use in the method are also disclosed. Wedge release means 39 for adjusting the position of the locking devices 26 are also disclosed (figures 2–4).

85) Family number: 12228393 (US5463797A) © PatBase

Title: LINE HOLDING STORAGE DEVICE AND PROCESS OF USING THE SAME

Priority: US19940217273 19940324

Family:

Publication number	Publication date	Application number	Application date
US5463797 A	19951107	US19940217273	19940324

Probable Assignee: LAUG TAMARA

Assignee(s):(std)**:** LAUG TAMARA

Assignee(s): LAUG TAMARA 4606 GREENBRIAR COURT BOULDER CO

Inventor(s):(std)**:** LAUG TAMARA ; BROMLEY ROBERT

International class (IPC 8–9)**:** F16G11/04 F16G11/10 (Advanced/Invention); F16G11/00 (Core/Invention)

International class (IPC 1–7)**:** B65D77/00 F16G11/00

CPC: Y10T24/155 Y10T24/2164 Y10T24/3984 Y10T24/44983 F16G11/101 F16G11/103

European class: F16G11/04 F16G11/10

US class: 24/115G 24/30.5S 24/305S 24/570 24/71.1 24/711 241/150G 242/388.2

Classification Explorer

Cited documents: USRE27986 E, US930533 A, US762160 A, US588213 A, US541925 A, US5193252 A, US3874638 A, US2825952 A, US2304139 A, US2220366 A, US101601 A, IT450347 A, FR374377 A, FR368760 A,

Forward Citations: USD693580, USD675828, US9750308, US9719296, US9187952, US9157505, US9151110, US9149143, US8827234, US2014000822, US2004221433,

Abstract:
Source: US5463797A A line holding storage device is provided for storing or displaying articles on a line in random locations along the line. The line holding storage device comprises a support housing having a first side and a second side. A channel is formed in the first side of the support housing and receives the line. A securing mechanism is positioned on the first side of the support housing and cooperates with the channel for releasably securing the line holding storage device to the line. A catch mechanism is mounted on the support housing to receive and hold articles which are to be stored or displayed with the catch mechanism being positioned such that the mass of the held article cooperates with the securing mechanism to augment the securement of the line holding storage device to the line.

0) DE639122A – ANSCHLAGVORRICHTUNG FUER RIEMENVERBINDER ANCHO...

86) Family number: 20833738 (DE639122A) © PatBase

Title: ANSCHLAGVORRICHTUNG FUER RIEMENVERBINDER ANCHORAGE DEVICE FOR BELT CONNECTOR (Machine translation)

Priority: DE1934G088785 19340916

Family:

Publication number	Publication date	Application number	Application date
DE639122 A	19361128	DE1934G088785D	19340916

Probable Assignee: PHILIPP GARTHE

Assignee(s):(std)**:** PHILIPP GARTHE

International class (IPC 8–9): F16G3/00 (Advanced/Invention); F16G3/00 (Core/Invention)

International class (IPC 1–7): F16G3/16

CPC: F16G3/003

European class: F16G3/00B

Classification Explorer

Abstract:
Source: DE639122A (Claim 1) 1. PATENTANSPRUECHE: z. Anschlagvorrichtung fuer Riemen=` verbinden aus V–foermigen Drahtklammern, bestehend aus zwei im Kreisbogen knie hebelartig gegeneinander schwenkbaren Klemmbacken und einem Fuehrungs– und Haltekamm fuer die Klammern gemaess Patent 635 837, dadurch gekennzeichnet, dass die Klemmbacken (221) an den sie tragenden Kniehebelschenkeln (r) schwing bar angeordnet sind, so dass sie sich selbst taetig parallel zur Riemenflaeche einstellen koennen.

Machine translation: (claim 1) 1 Claims: for stop device for belts = connect `from V–shaped wire staples, consisting of two circular arc toggle lever–like manner against each other pivotal clamping jaws and a guiding and holding comb for receive the brackets Patent 635,837, characterized in that the clamping jaws (221) on they are bearing arms toggle (r) oscillating bar positioned so that it can adapt itself parallel to Riemenflaeche.

0) US2487153A – APPARATUS FOR MAKING BELTS

87) Family number: 22401445 (US2487153A) © PatBase

Title: APPARATUS FOR MAKING BELTS

Priority: US19460683274 19460712

Family:

Publication number	Publication date	Application number	Application date
US2487153 A	19491108	US19460683274	19460712

Probable Assignee: GOODRICH CO B F

Assignee(s):(std)**:** GOODRICH CO B F

Assignee(s): THE B F GOODRICH COMPANY ; B F GOODRICH CO

Inventor(s):(std)**:** LINDEMANN ROBERT E

International class (IPC 8–9): B29D29/00 (Advanced/Invention); B29D29/00 (Core/Invention)

International class (IPC 1–7): F16G1/00

CPC: B29D29/00

European class: B29D29/00

US class: 242/422.8 242/445.1 242/447.3

Classification Explorer

Cited documents: US923563 A, US1975620 A,

Abstract:
Source: US2487153A 1. Apparatus for making belts, said apparatus comprising a rotatable drum, means– for rotating the drum, means for guiding a belt tensionreslsting element to said drum, carriage means for continuously moving the guiding means axially of the drum to wind the belt tension–resisting element in uniform convolutions. means on said carriage means for abruptly advancing the guid– :lng means with relation to the carriage means at regular intervals for spacing groups of convolutions from each other, and means for locking the carriage means and the guiding means against relative movement during the winding of said uniform convolutions, said means for advancing the guiding means with relation to the carriage means comprising a rack on said guiding means, a cam on said carriage means engaging said rack, and means for rotating said cam.

0) US3817468A – WEB TENSIONING DEVICE

88) Family number: 126657 (US3817468A) © PatBase

Title: WEB TENSIONING DEVICE

Priority: GB19700046547 19700930

Family:

Publication number	Publication date	Application number	Application date
BE773217 A	19720329	BE19710773217	19710929
BE773217 A2	19720329	BE19710773217	19710929
CA956617 A1	19741022	CA19710123556	19710923
DE2148233 A1	19720406	DE19712148233	19710928
DE2148233 B2	19800117	DE19712148233	19710928
DE2148233 C3	19800911	DE19712148233	19710928
FR2108751 A5	19720519	FR19710035379	19710930
GB1367081 A	19740918	GB19700046547	19700930
JP55016941 B4	19800508	JP19710074524	19710923
US3817468 A	19740618	US19710184869	19710929

Probable Assignee: AGFA GEVAERT

Assignee(s):(std)**:** AGFA GEVAERT ; AGFA GEVAERT AG ; AGFA GEVAERT NV

Assignee(s): AGFA GEVAERT NV BE ; CAPPUYNS JOSEPH M ; SMOLDEREN ALBERT E ; AGFA GEVAERT AG 5090 LEVERKUSEN ; AGFA GEVAERT N V ; AGFA GEVAERT N V TE MORTSEL BIJ ANTWERPEN

Inventor(s):(std)**:** SMOLDEREN ALBERT E ; SMOLDEREN A ; CAPPUYNS JOSEPH M ; CAPPUYNS J ; SMOLDEREN ALBERT EMIEL ; CAPPUYNS BERCHEM IR

Inventor(s): SMOLDEREN ALBERT EMIEL AARTSELAAR ; SMOLDEREN A BE ; CAPPUYNS J BE ; CAPPUYNS IR JOSEPH MARIE BERCHEM

International class (IPC 8–9): B65H75/08 B65H75/18 B65H75/24 F16D25/04 (Advanced/Invention); B65H75/04 B65H75/18 F16D25/00 (Core/Invention)

International class (IPC 1–7): B65H19/02 B65H19/04 B65H23/08 B65H25/22 B65H59/00 B65H75/18 B65H75/24 F16C13/00 F16D25/04 F16D25/04 F16D25/065 F16D25/10 F16D67/00 F16G F16H13/00 G03B1/00

CPC: B65H75/246 B65H75/247 B65H2403/731 B65H2555/112 F16D25/046

European class: B65H75/08 B65H75/24B6 B65H75/24B6B F16D25/04B3 L65H403/731 L65H555/112

US class: 188/365 188/67 242/530.3 242/545.1 242/571.2 242/571.7

Classification Explorer

Cited documents: US3603521 A, US3111285 A, US3010671 A, US2961183 A, US2707082 A, US2538997 A, JP45000256 Y1, JP44023884 A2, DE1196044 B, DE1143074 B,

Forward Citations: WO9902442, US7083137, US6755371, US6712308, US6283404, US6202955, US6079662, US6059218, US5797473, US5451010, US4767077, US4693431, US4593864, US4461430, US4447016, US2008237388, US2004211857, US2002084375, GB2300460, GB2300460, ES2132006, EP2042461, EP1787930, EP0972737, EP0603636, DE3918863, DE19517225, DE19517225, DE19515723, DE19515723, DE19515723, DE102014117521, DE102008045109, CN103189290, CN103189290,

Abstract:
Source: US3817468A The invention describes a device for winding up strips of photographic film after this latter has been cut longitudinally. The invention is characterized by a uniform distribution of the radial forces exerted upon the winding cores, so that each core is wound–up under conditions of uniform tension. The equal radial force is obtained by pressing air into axially situated flexible, elastic tubes, exerting a constant radial pressure upon brake shoes contacting carrier members for cores of spools onto which the film strips are wound.

0) CH286207A – SPANNER FUER DRAEHTE, SEILE, BAENDER UND DERGLE...

89) Family number: 38822687 (CH286207A) © PatBase

Title: SPANNER FUER DRAEHTE, SEILE, BAENDER UND DERGLEICHEN. CLAMP WIRE, ROPES,, ribbons and LIKE. (Machine translation)

Priority: 19501120

Family:

Publication number	Publication date	Application number	Application date
CH286207 A	19521015		00000000

Probable Assignee: BECK KURT

Assignee(s):(std)**:** BECK KURT

Inventor(s):(std)**:** KURT BECK

Inventor(s): BECK KURT

International class (IPC 8–9): F16G11/12 (Advanced/Invention); F16G11/00 (Core/Invention)

CPC: F16G11/12

European class: F16G11/12

Classification Explorer

Forward Citations: FR2470902,

Abstract:
Source: CH286207A (Claim 1) 1. Spanner nach Patentanspruch, dadurch gekennzeichnet, dass sich das Gesperre inner halb des Rahmens befindet.

Machine translation: (claim 1) 1 Tensioner according to Patent Claim, characterized in that the locking mechanism is located within half of the frame.

0) EP2317273A3 – CLEANING DEVICE FOR HEAT EXCHANGER REINIGUNGSV...

90) Family number: 48522174 (EP2317273A3) © PatBase

Title: Cleaning device for heat exchanger

Priority: DE200910050863 20091027 DE201010010011 20100302 DE201020016368U 20100302

Family:

Publication number	Publication date	Application number	Application date
DE102010010011 A1	20110505	DE201010010011	20100302
DE202010016368 U1	20110310	DE201020016368U	20100302
EP2317273 A2	20110504	EP20100013979	20101026
EP2317273 A3	20120425	EP20100013979	20101026

Probable Assignee: JNW CLEANINGSOLUTIONS GMBH

Assignee(s):(std)**:** JNW CLEANINGSOLUTIONS GMBH

Inventor(s):(std)**:** JARESCH DIRK

Agent(s): KAEWERT KLAUS

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

International class(IPC 8–9)**:** F16G13/16 F28G1/16 F28G15/02 F28G15/04 (Advanced/Invention)

CPC: F16G13/16 F28B1/06 F28G1/166 F28G15/02 F28G15/04

European class: F16G13/16 F28G1/16D F28G15/02 F28G15/04 F28G15/08 R28B1/06

Classification Explorer

Cited documents: WO03067729 A1, WO0239047 A1, GB900179 A, EP1604164 A1, DE8901955 U, DE29613968 U1, DE19800018 A1, DE19512086 C1, DE1257804 B,

Forward Citations: WO13178353, US9605916, US2016084595, DE102013018446, DE102013007271, DE102013007062, DE102012021178, DE102012021177,

Abstract:
Source: EP2317273A3 Reinigungsvorrichtung zur Reinigung von Waermetauscherflaechen, die einen Duesenstock (50) mit verschiedenen Duesen besitzt, wobei den Duesen durch eine Schlauchleitung (80) Reinigungswasser zugefuehrt wird, die in einer Energiekette gehalten ist (108,108a,114).

0) US3590854A – ROLLING CONDUCTOR SUPPORT

91) Family number: 732042 (US3590854A) © PatBase

Title: ROLLING CONDUCTOR SUPPORT

Priority: US19680770468 19681009

Family:

Publication number	Publication date	Application number	Application date
CA918766 A1	19730109	CA19690056473	19690708
GB1249018 A	19711006	GB19690048808	19691003
US3590854 A	19710706		19681009
US3590854 B1	19850326		00000000

Probable Assignee: GEMCO ELECTRIC CO

Assignee(s):(std)**:** GEMCO ELECTRIC CO ; MC GRAW EDISON CO

Assignee(s): MARINE BANK NA ; OLD STONE BANK ONE OLD STONE SQUARE PROVIDENCE RHO ; MARINE BANK NA 111 EAST WISCONSIN AVENUE MILWAUKEE WISCONSIN 53201 ; OLD STONE BANK ONE OLD STONE SQUARE PROVIDENCE RHODE ISLAND 02903 ; GEMCO ELECTRIC COMPANY ; GORDON H CORK ; COOPER IND ; COOPER IND INC A CORP OF OH

Inventor(s):(std)**:** CORK GORDON H

Inventor(s): GORDON H CORK

International class (IPC 8–9)**:** B65H75/36 F16G13/16 H02G11/00 (Advanced/Invention); B65H75/34 F16G13/00 H02G11/00 (Core/Invention)

International class (IPC 1–7)**:** B65H75/36 F16G13/16 H02G11/06

CPC: Y10T137/6918 H02G11/006 F16G13/16

European class: F16G13/16 H02G11/00C

US class: 137/355.16 248/49 59/78.1 59/84

Classification Explorer

Cited documents: US3396747 A, US3381705 A, US3337696 A, US3332434 A, US3284036 A, US3233850 A, US3157376 A, US3085135 A, US3053358 A, US2641493 A,

Forward Citations: WO9730299, WO9609481, USRE36030, US9534708, US9029698, US9018527, US8950822, US8622481, US8061493, US7877978, US7758364, US7234292, US7045705, US6186166, US6156974, US4989486, US4625936, US4590961, US4582281, US4462565, US3908692, US3833774, US3827454, US3804111, US2014305672, US2014174783, US2012187746, US2010320049, US2007234701, US2005103511, TWI584546, TWI563191, JP6021156, JP2014206181, GB2283459, GB2283459, FR2391143, FR2198289, FR2198289, EP0499340, DE4307081, DE2360227, DE102006017316, CN104104033, CN103883677, CN103883677, AU708011,

Abstract:
Source: US3590854A This disclosure relates to a rolling conductor support useful in supporting, guiding and protecting electrical, hydraulic, coolant and the like conductors extending between parts of machines which move relative to one another on guides or tracks. The conductor support comprises a plurality of parallel chains connected in laterally spaced relation by conductor–supporting bridges to which the conductors are fastened by clips or retainer loops. The chains are composed of links pivotally connected at overlapping contiguous ends, with an arcuate slot in one end of each link receiving a stop pin in the overlapping contiguous end of the next link, with the length of the slots determining the bending radius of the chains. The disclosure also encompasses two or more conductor supports arranged in stacked relation with means for supporting one on top of the other in spaced–apart relation. Also disclosed is a flexible, sheetlike member extending between the chains to form a protective covering for the conductors, with retention bars overlying the cover and releasably engaged with the chain links. There is further disclosed a support including cross members extending between the chains forming a platform on which an operator may stand, with the chain links formed with laterally extending flanges to which the cross members are connected.

0) US4830337A – DEVICE FOR PUSHING AND PULLING AN ACCESSORY INS...

92) Family number: 2869693 (US4830337A) © PatBase

Title: DEVICE FOR PUSHING AND PULLING AN ACCESSORY INSTRUMENT OF MANUFACTURING PLANT

Priority: JP19840029331 19840217

Family:

Publication number	Publication date	Application number	Application date
DE3501524 A1	19850829	DE19853501524	19850118
DE3501524 C2	19890810	DE19853501524	19850118
JP1042772 B4	19890914	JP19840029331	19840217
JP1560800 C3	19900531	JP19840029331	19840217
JP60172429 A2	19850905	JP19840029331	19840217
US4830337 A	19890516	US19850702123	19850215

Probable Assignee: AIOI SEIKI KK

Assignee(s):(std)**:** AIOI SEIKI KK

Assignee(s): AIOI SEIKI K K ; AIOI SEIKI KABUSHIKI KAISHA

Inventor(s):(std)**:** ICHIRO KITAURA ; KEITARO YONEZAWA ; SHUICHI TAMURA ; YONEZAWA KEITAROU ; TAMURA SHIYUUICHI ; KITAURA ICHIROU ; YONEZAWA KEITARO ; KITAURA ICHIRO ; TAMURA SHINICHI

Inventor(s): TAMURA SHUICHI

International class (IPC 8–9): B21D37/14 B23Q3/06 B23Q7/14 B29C45/17 B30B15/02 F15B15/02 F16G13/16 F16G13/18 F16H19/00 (Advanced/Invention); B21D37/14 B23Q3/06 B23Q7/14 B29C45/17 B30B15/02 F15B15/00 F16G13/00 F16H19/00 (Core/Invention)

International class (IPC 1–7): B21D37/14 B22D17/20 B23Q1/00 B23Q1/18 B23Q3/06 B30B1/30 B30B15/06 B65G47/52 F16H29/02 F16H7/06

CPC: Y10S254/06 F16G13/20 B23Q7/1431 B29C45/1756 B30B15/026 B30B15/028 F15B15/02 F16G13/16 F16H19/0636

European class: B23Q7/14K2 B29C45/17H B30B15/02C B30B15/02D F15B15/02 F16G13/16 F16G13/20 F16H19/06J R16H19/06J

US class: 254/95 254/DIG.6

Classification Explorer

Cited documents: US4402642 A, US4331219 A, US4326624 A, US3831455 A, US3746190 A, US3719291 A, US3679174 A, CH621991,

Forward Citations: WO05013732, US9757300, US9744089, US9744087, US9737149, US9687399, US9642760, US9636266, US9629766, US9622928, US9610206, US9572734, US9549863, US9546499, US9531237, US9510987, US9504622, US9468576, US9456945, US9145956, US8955811, US8720127, US8366066, US8225559, US8104120, US8074309, US7921611, US7581360, US7357365, US7310915, US6336622, US6224037, US5692984, US4976413, US2017101797, US2016000629, US2012060276, US2011197361, US2011185648, US2010223728, US2010107516, US2010038499, US2009008615, US2008196323, US2007051065, US2005109908, JP5004902, JP2112832, JP2010048358, FR2871568, EP1885630, DE4226854, DE3640762, DE3618286, CN102756912, CN102756912,

Abstract:
Source: US4830337A The present invention relates to a device for pushing and pulling an accessory instrument of a manufacturing plant, such as a clamp for a metallic mould, by means of a chain driven by a hydraulic actuator having a vertical cylinder. One end of the chain is supported by a case which houses the chain. The chain is driven by one of more sprockets engaging the chain at and rotatably supported by a movable part of the cylinder.

0) CH697665B – ONE–PIECE METALLIC CLAMPING AND COUPLING DEVICE...

93) Family number: 42872383 (CH697665B) © PatBase

Title: ONE–PIECE METALLIC CLAMPING AND COUPLING DEVICE FOR DETACHABLE CONNECTION OF TWO TOWING ROPES, AND AS CONNECTING DEVICE FOR SUSPENSION OF LAMELLAS IN LAMELLA CURTAINS, HAS CYLINDER OR BALL HOLDER AT ITS OPPOSITE SIDE

Priority: CH20050000196 20050208

Family:

Publication number	Publication date	Application number	Application date
CH697665 B1	20090115	CH20050000196	20050208

Probable Assignee: BERNINA STOREN AG

Assignee(s):(std)**:** BERNINA STOREN AG

Inventor(s):(std)**:** LOCHER JOSEF ; FERRARI RENATO

Inventor(s): JOSEF LOCHER ; RENATO FERRARI

International class (IPC 8–9)**:** E06B9/266 F16G11/02 (Advanced/Invention); E06B9/26 F16G11/00 (Core/Invention)

CPC: E06B9/266 F16G11/02 F16G11/14

European class: E06B9/266 F16G11/02 F16G11/14

Classification Explorer

Abstract:
The one–piece metallic clamping and coupling device (14) has a cylinder or a ball holder (16) at its opposite side. A flexible side flange is provided with a recess in a clamping device (19). A clamping fastener (24) is engaged in the recess by an engaging cam projecting to end side and is held by a projecting clamp guide. Two stop surfaces are connected to the side flange and engage the clamping guide. The clamping and coupling device is made of hardened spring steel.

0) EP1744007B1 – BALL CLUTCH FOR LAMELLA BLIND KUGELKUPPLUNG FUE...

94) Family number: 34104957 (EP1744007B1) © PatBase

Title: Ball clutch for lamella blind

Priority: EP20050015067 20050712

Family:

Publication number	Publication date	Application number	Application date
AT389093 E	20080315	AT20050015067T	20050712
DE502005003206 D1	20080424	DE200550003206T	20050712
EP1744007 A1	20070117	EP20050015067	20050712
EP1744007 B1	20080312	EP20050015067	20050712

Probable Assignee: BAUMANN HUEPPE AG

Assignee(s):(std)**:** BAUMANN HUEPPE AG

Inventor(s):(std)**:** HAUSER JAKOB

Agent(s): TROESCH SCHEIDEGGER WERNER AG

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 SE SI SK TR YU

International class (IPC 8–9)**:** E06B9/32 E06B9/326 F16G11/03 (Advanced/Invention); E06B9/28 F16G11/00 (Core/Invention)

CPC: E06B9/324

European class: E06B9/324

Classification Explorer

Cited documents: US2036172 A, EP0928875 A2,

Forward Citations: EP2208851, EP2208851, CH700264, AT15138,

Abstract:
Source: EP1744007B1 Ball coupling comprises of a hanger–shaped body (1) with head part (5) and two side pieces (6,7) having a means for common, detachable locking at their free ends. Head part has an opening (8) for carrying of controlling cord through it. Opening has a slot (10) proceeding in a side piece and forming a recess (11). A gap is formed in a side piece in which a guide, pointing in the direction of the gap, is formed on other side piece and extended between both side pieces during the pressing of the side pieces.

0) DE679316A – VORRICHTUNG ZUM EINPRESSEN VON V–FOERMIGEN RIEM...

95) Family number: 23050000 (DE679316A) © PatBase

Title: VORRICHTUNG ZUM EINPRESSEN VON V–FOERMIGEN RIEMENVERBINDERN
DEVICE FOR PRESSING of V–shaped BELT CONNECTORS (Machine translation)

Priority: DE1937B176991 19370116

Family:

Publication number	Publication date	Application number	Application date
DE679316 A	19390908	DE1937B176991D	19370116

Probable Assignee: EWALD BROEKING FA

Assignee(s):(std)**:** EWALD BROEKING FA

Assignee(s): FIRMA EWALD BROEKING

International class (IPC 8–9): F16G3/00 (Advanced/Invention); F16G3/00 (Core/Invention)

International class (IPC 1–7): F16G3/16

CPC: F16G3/003

European class: F16G3/00B

Classification Explorer

Abstract:
Source: DE679316A (Claim 1) 1. PATZ' NTANSPRUECHE: i. Vorrichtung zum Einpressen von V–foermigen Riemenverbinderhaken mittels einer festen und einer beweglichen, durch Kniehebel.angetriebenen Klemmbacke mit Ober– und an diesem kippbar gelagertem Unterteil, dadurch gekennzeichnet, dass die im Gestell gelagerte Endachse (6) des Kniehebels und die um jene angetrie– bene schwenkbare Achse (14) im Knie in der Schlussstellung in einer lotrechten Ebene zu den in dieser Lage parallelen Maulebenen liegen, welche Ebene die Maulflaeche des Unterteiles (18) der be weglichen Klemmbacke etwa halbiert, nachdem sich dieser Unterteil (18) beim Einpressvorgang,auf dem nach dem um seine Laengsachse drehbar gelagerten Haltekamm unterschnittenen Oberteil (17),abgewaelzt hat.

Machine translation: (claim 1) 1 PATZ 'NTANSPRUECHE: i apparatus for pressing of V–shaped belt connector hook through a fixed and a movable, by Kniehebel.angetriebenen jaw with top and at this tiltable stored base, characterized in that in the frame mounted end axle (6) of the toggle lever and at that driven–bene swiveling axis (14) in the knee in the final position in a vertical plane to lie in this position parallel foot levels, which level the Maulflaeche of the lower part (18) of be movable clamping jaw approximately halved after this bottom part (18) during the pressing, where after the undercut around its longitudinal axis rotatably mounted retaining ridge upper part (17) has passed.

0) US1856487A – DOMESTIC APPLIANCE

96) Family number: 20609761 (US1856487A) © PatBase

Title: Domestic appliance

Priority: US19230629202 19230331 US19240710165 19240430 US19260102935 19260419

Family:

Publication number	Publication date	Application number	Application date
US1698100 A	19290108	US19260102935	19260419
US1699599 A	19290122	US19230629202	19230331
US1856487 A	19320503	US19240710165	19240430

Probable Assignee: DELCO LIGHT CO

Assignee(s):(std)**:** DELCO LIGHT CO

Assignee(s): DELCO LIGHT COMPANY

Inventor(s):(std)**:** LEE RALPH L

International class (IPC 8–9)**:** D06F45/00 D06F45/18 D06F45/28 F16G3/02 (Advanced/Invention); D06F45/00 F16G3/00 (Core/Invention)

International class (IPC 1–7)**:** D06F45/28

CPC: D06F45/28 D06F45/18 F16G3/02 D06F45/00 Y10T24/1688

European class: D06F45/00 D06F45/18 D06F45/28 F16G3/02

US class: 24/31H 384/265 68/244 68/267 68/269C

Classification Explorer

Forward Citations: US5079807, US3335844,

Abstract:
Source: US1856487A 1. A wringer including a plurality of rollers. a conveyor belt havinga plurality of plies and adapted for conveying articles between said rollers, means associated with saidconveyor belt and cooperating with said rollers for progressively and gradually removing liquid from between the plies of said belt.

- **search:** SS7 (1) and IC=F16G (Results 11)
- List: SS7 1–50 ((1) and IC=F16G) (Results 11)

0) US2016356292A – CABLE LOCK AND SEAL DEVICE

1) Family number: 60056352 (US2016356292A) © PatBase

Title: CABLE LOCK AND SEAL DEVICE

Priority: MY20140700257 20140207 WO2015MY00008 20150205

Family:

Publication number	Publication date	Application number	Application date
CL2016001992 A1	20170417	CL20160001992	20160808
CN106133391 A	20161116	CN201580017547	20150205
CO20160001162 A2	20170209	CO20160001162	20160825
CR20160390 A	20170119	CR20160000390	20150205
EP3102848 A1	20161214	EP20150745948	20150205
EP3102848 A4	20171004	EP20150745948	20150205
MX2016010298 A1	20170206	MX20160010298	20150205
PE14612016 A1	20170127	PE20160001439	20150205
US2016356292 AA	20161208	US20150117193	20150205
WO15119494 A1	20150813	WO2015MY00008	20150205

Probable Assignee: MEGA FORTRIS MALAYSIA SDN BHD

Assignee(s):(std)**:** MEGA FORTRIS MALAYSIA SDN BHD

Inventor(s):(std)**:** CHUA YUEN KAM ; YUEN KAM CHUA

Agent(s): ESTUDIO CLARKE MODET AND CO CHILE LIMITADA; CAROLINA MERCEDES DAZA MONTALVO; SCHNEIDER MICHAEL; CHEW KHERK YING 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

International class (IPC 8–9): F16B2/08 F16B2/12 F16G11/04 F16G11/10 F16G11/14 G09F3/03 (Advanced/Invention)

CPC: F16G11/106 F16B2/12 F16B2/08 G09F3/0352 F16G11/14 G09F3/0323

US class: 24/136R

Classification Explorer

Cited documents: WO0138756 A1, US8578566 BB, US8001660 BB, US6719335 BB, US6578886 BA, US6550830 BB, US6345847 BA, US5820176 A, US5647620 A, US5611583 A, US5538300 A, US5352003 A, US4640538 A, US4074916 A, US2011041292 AA, US2006196016 AA, EP1172781 A1, EP0630450 B1, CN102089549 A,

Abstract:
Source: US2016356292A A cable lock and seal device comprising a body and a cover with which complementarily forms a block enclosing there within a passage and a chamber. The body is integral with a base in which one end of a cable may be secured. The other free end of the cable may be inserted into the passage which is preferably curved and traverses the assembled body–and–cover block. The chamber is adapted with a ramp rising towards the passage, a slot for retaining a spring which second end is disposed to urge a locking wheel up the ramp against said passage. The urging of the locking wheel by the biasing means up the ramp is restrained when the locking wheel's axle engages a rib on the chamber wall to limit the wheel's further entry into the passage upon sufficiently engaging said cable and preventing its withdrawal by reversing its insertion.

0) WO0138756A1 – CABLE LOCK AND SEAL DEVICE DISPOSITIF D'ETANCH...

2) Family number: 20675570 (WO0138756A1) © PatBase

Title: CABLE LOCK AND SEAL DEVICE

Priority: GB19990027870 19991126 WO2000GB04462 20001124

Family:

Publication number	Publication date	Application number	Application date
AU200115342 A1	20010604	AU20010015342	20001124
AU200115342 A5	20010604	AU20010015342D	20001124
GB199927870 A0	20000126	GB19990027870	19991126
GB9927870 A0	20000126	GB19990027870	19991126
WO0138756 A1	20010531	WO2000GB04462	20001124

Probable Assignee: BLOXWICH TRANSPORT PROD LTD

Assignee(s):(std)**:** BLOXWICH TRANSPORT PROD LTD ; BLOXWICH TRANSPORTATION PRODUC ; BROWN CLIVE ALBERT ; BLOXWICH TRANSPORTATION PRODUCTS LIMITED ; BLOXWICH ENG

Assignee(s): BLOXWICH ENGINEERING LIMITED ; BLOXWICH ENGINEERING LTD ; BLOXWICH TRANSPORTATION PRODUCTS LTD

Inventor(s):(std)**:** BROWN CLIVE ALBERT

Inventor(s): CLIVE ALBERT BROWN

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

International class (IPC 8–9): F16G11/04 F16G11/10 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7): F16G11/04 G09F3/03

CPC: G09F3/0352 F16G11/02 F16G11/108 F16G11/14 G09F3/0358

European class: F16G11/04 F16G11/10 G09F3/03A6B G09F3/03A6C

Classification Explorer

Cited documents: US830656 A, US830565 A, US5538300 A, US5222776 A, US4747631 A, US4074916 A,

Forward Citations: WO17016687, WO04005753, RU173718, GB2453756, GB2453756, EP3115642, EP3115641, EP3115640, EP3102848,

Abstract:
A cable lock and seal device comprises a body (2) having a passage (9) therethrough and an elongate flexible inextensible member such as a cable (11) having one end (13) attached to the body, the opposite end being adapted to pass through the passage so that such cable engages a friction roller enclosed by the body, and rotatable about an axis normal to the axis of the passage. The roller (17) is movable upwardly along a surface (20) of a ramp which is inclined with respect to the axis of the passage (9) thereby to reduce the dimension of the passage available for accommodating the cable. A spring (19) is arranged to bias the roller (17) against the cable (11) when the latter is inserted into the passage (9), whereby, on attempted withdrawal of the cable from that passage, frictional engagement between the roller (17) and the cable (11) tends to draw the roller (17) upwardly along the ramp surface (20) to cause a jam fit with the cable (11) to resist further withdrawal. The spring (19) is arranged to bias the ramp surface (20) towards the axis of the passage (9), and that ramp surface (20) may be constituted by a surface of the spring (19).

0) US2009277169A – OVERHEATING PROTECTION FOR SHAPE MEMORY ALLOY A...

3) Family number: 43959958 (US2009277169A) © PatBase

Title: OVERHEATING PROTECTION FOR SHAPE MEMORY ALLOY ACTUATORS

Priority:

US20080051351P 20080508 US20080250148 20081013 US20090437768 20090508
US20090437867 20090508 US20090437722 20090508 US20100792120 20100602
WO2009US43253 20090508 US20100971336 20101217 WO2009US43266 20090508
US20110046748 20110313 US20110162470 20110616 US20120443989 20120411
US20120452597 20120420 US20130834709 20130315 WO2009US43294 20090508

Family:

Publication number	Publication date	Application number	Application date
CN102016306 A	20110413	CN200980116462	20090508
CN102016306 B	20130724	CN200980116462	20090508
CN102016307 A	20110413	CN200980116469	20090508
CN102016307 B	20141029	CN200980116469	20090508
CN102016308 A	20110413	CN200980116470	20090508
CN102016308 B	20130911	CN200980116470	20090508
CN102269142 A	20111207	CN201110147334	20110602
CN102269142 B	20140326	CN201110147334	20110602
CN102661260 A	20120912	CN201110463342	20111216
CN102661260 B	20141126	CN201110463342	20111216
CN102678494 A	20120919	CN201210064635	20120313
CN102678494 B	20141029	CN201210064635	20120313
CN102852750 A	20130102	CN201210347578	20120616
CN102852750 B	20160427	CN201210347578	20120616
CN103375375 A	20131030	CN201310124439	20130411
CN103375375 B	20160601	CN201310124439	20130411
CN103375376 A	20131030	CN201310137432	20130419
CN103375376 B	20160224	CN201310137432	20130419
DE102011102597 A1	20120426	DE201110102597	20110527
DE102011120963 A1	20120621	DE201110120963	20111213
DE102011120963 B4	20130718	DE201110120963	20111213
DE102012203498 A1	20120920	DE201210203498	20120306
DE102012209765 A1	20121220	DE201210209765	20120612
DE102013206132 A1	20131017	DE201310206132	20130408
DE102013206916 A1	20131024	DE201310206916	20130417
DE112009001069 B4	20170126	DE200911001069T	20090508
DE112009001069 T5	20120112	DE200911001069T	20090508
DE112009001088 B4	20170119	DE200911001088T	20090508
DE112009001088 T5	20110303	DE200911001088T	20090508
DE112009001105 T5	20110421	DE200911001105T	20090508
US2009277169 AA	20091112	US20090437867	20090508
US2009277170 AA	20091112	US20090437768	20090508
US2010117663 AA	20100513	US20090437722	20090508
US2010236236 AA	20100923	US20100792120	20100602
US2011083431 AA	20110414	US20100971336	20101217
US2011163769 AA	20110707	US20110046748	20110313
US2011296826 AA	20111208	US20110162470	20110616
US2012198835 AA	20120809	US20120443989	20120411
US2012223727 AA	20120906	US20120452597	20120420

US2013199172 AA	20130808	US20130834709	20130315	
US8109087 BB	20120207	US20090437867	20090508	
US8188757 BB	20120529	US20090437722	20090508	
US8281585 BB	20121009	US20090437768	20090508	
US8390305 BB	20130305	US20110046748	20110313	
US8567188 BB	20131029	US20100792120	20100602	
US8640455 BB	20140204	US20110162470	20110616	
US8739525 BB	20140603	US20100971336	20101217	
US8810234 BB	20140819	US20120452597	20120420	
US9022682 BB	20150505	US20120443989	20120411	
US9353734 BB	20160531	US20130834709	20130315	
WO09137750 A2	20091112	WO2009US43253	20090508	
WO09137750 A3	20100225	WO2009US43253	20090508	
WO09137757 A2	20091112	WO2009US43266	20090508	
WO09137757 A3	20100401	WO2009US43266	20090508	
WO09137767 A2	20091112	WO2009US43294	20090508	
WO09137767 A3	20100304	WO2009US43294	20090508	

Probable Assignee: GM GLOBAL TECH OPERATIONS INC

Assignee(s):(std)**:** ALEXANDER PAUL W ; BROWNE ALAN L ; GAO XIUJIE ; GM GLOBAL TECH OPERATIONS INC ; GM GLOBAL TECH OPERATIONS LLC N D GES D STAATES DELAWARE ; JOHNSON NANCY L ; HERRERA GUILLERMO A ; HENRY CHRISTOPHER P ; KEEFE ANDREW C ; MC KNIGHT GEOFFREY P ; SMITH SLOAN ; MCKNIGHT GEOFFREY P ; SKURKIS RICHARD J ; USORO PATRICK B ; MANKAME NILESH D ; PINTO IV NICHOLAS W ; STROM KENNETH A ; PINTO NICHOLAS WILLIAM ; SAROSI PETER MAXWELL ; STEVENSON ROBIN ; LAWALL JENNIFER P ; HAO LEI

Assignee(s): GM GLOBAL TECHNOLOGY OPERATIONS LLC NDGESD STAATES DELAWARE ; UAW RETIREE MEDICAL BENEFITS TRUST ; UNITED STATES DEPARTMENT OF TREASURY ; WILMINGTON TRUST CO ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GES D STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ND GES DSTAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GESETZEN DES STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ND GES D STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATION US CORP ; GM GLOBAL TECHNOLOGY OPERATIONS INC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC

Inventor(s):(std)**:** ALAN L BROWNE ; ALEXANDER PAUL W ; BROWNE ALAN L ; GAO XIUJIE ; HAO LEI ; HENRY CHRISTOPHER P ; HERRERA GUILLERMO A ; JOHNSON NANCY L ; KEEFE ANDREW C ; LAWALL JENNIFER P ; MANKAME NILESH ; MANKAME NILESH D ; MC KNIGHT GEOFFREY P ; MCKNIGHT GEOFFREY P ; NANCY L JOHNSON ; NICHOLAS W PINTO IV ; NILESH D MANKAME ; NILESH MANKAME ; PATRICK B USORO ; PAUL W ALEXANDER ; PINTO IV NICHOLAS W ; PINTO NICHOLAS W ; PINTO NICHOLAS WILLIAM ; SKURKIS RICHARD J ; SMITH SLOAN ; SPENNY JASON R ; STROM KENNETH A ; USORO PATRICK B ; WILLIAM PINTO NICHOLAS ; XIUJIE GAO ; STEVENSON ROBIN ; SAROSI PETER MAXWELL ; BROWNE ALAN ; SLOAN SMITH

Agent(s): SLJ LLC; MICKKI D; PARKS IP LAW LLC; REISING ETHINGTON PC; CICHOSZ VINCENT 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 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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B23P11/00 B23Q1/34 F01B29/10 F02G1/04 F03G1/00 F03G7/06 F16C9/00 F16G11/02 F16K31/00 F16K31/02 F25B49/00 G01B7/00 G01J1/44 G01N27/92 G01R27/08 G01R27/26 G05D23/02 G06F17/00 G06Q10/04 G12B1/02 H01R4/01 H01R9/00 H02N99/00 H02P31/00 (Advanced/Invention); F02G1/00 F03G1/00 F03G7/06 F16K31/00 F16K31/02 G01R27/26 G05D23/01 (Core/Invention)

CPC:

B23P11/005 H01R4/01 H01R4/023 H01R4/029 H01R4/187 H01R2004/181 F03G7/06 G12B1/02 Y10T29/49826 Y10T307/766 F03G7/065 F28F2013/008 Y10T403/21 Y10T403/217 F16G11/02 Y10T29/49908

European class: F03G7/06B F16G11/02

US class: 1/1 250/206 250/206S 29/428 29/428S 29/505 307/116 307/116S 318/135 318/135S 324/679 324/679P 324/691 324/691P 324/71.1 324/71.3 324/76.11 403/28 403/30 60/527 60/527P 60/528 60/528P 60/529

Classification Explorer

Cited documents: WO09137757 A2, WO09137750 A2, WO07083064 A2, WO05075823 A1, USRE31472 E, US8281585 BB, US7989703 BB, US7972718 BB, US7967339 BB, US7853331 BB, US7793497 BB, US7775042 BA, US7765689 BB, US7722668 BB, US7685859 BB, US7650914 BB, US7600301 BB, US7491101 BB, US7256518 BB, US7189158 BB, US7188473 BA, US6997746 BB, US6981374 BB, US6848524 BB, US6732516 BB, US6655218 BA, US6648279 BA, US6641593 BA, US6574958 BA, US6546806 BA, US6543224 BA, US6401309 BA, US6213060 BA, US6128188 A, US6086433 A, US6016096 A, US5996346 A, US5875096 A, US5727391 A, US5622482 A, US5410290 A, US4991602 A, US4930494 A, US4884557 A, US4860040 A, US4691518 A, US4691517 A, US4559512 A, US4553393 A, US4544988 A, US4490975 A, US4450686 A, US4325217 A, US4294006 A, US4290393 A, US3942486 A, US3913326 A, US3771111 A, US3725835 A, US3703693 A, US3366865 A, US3339077 A, US3152554 A, US3064477 A, US3048908 A, US2998725 A, US2810290 A, US2747171 A, US2012324727 AA, US2012094143 AA, US2011277462 AA, US2011168725 AA, US2011136397 AA, US2011128434 AA, US2011004298 AA, US2010293940 AA, US2010267205 AA, US2010236236 AA, US2010152769 AA, US2010092238 AA, US2010089468 AA, US2010066785 AA, US2010018686 AA, US2009326637 AA, US2009321044 AA, US2009301408 AA, US2009272935 AA, US2009250952 AA, US2009043288 AA, US2009007561 AA, US2008247748 AA, US2008202637 AA, US2008187803 AA, US2008141736 AA, US2008133090 AA, US2008099193 AA, US2007216194 AA, US2007175213 AA, US2007169928 AA, US2007163769 A9, US2007044952 AA, US2006247619 AA, US2006247618 AA, US2006201609 AA, US2006095178 AA, US2006054309 AA, US2005269726 AA, US2005200067 AA, US2005172462 AA, US2005146408 AA, US2005116336 AA, US2005065601 AA, US2004261411 AA, US2003199974 AA, US2003195432 AA, US2003058619 AA, US2002113499 AA, US2002018337 AA, JPS60228778, JPS5844755, JP988804, JP62019073 B4, JP61046478 A2, JP60252172 A2, JP60228778 A2, JP60036786 A2, JP58044755 A2, JP5248341 A2, JP3012998 A2, JP2009008024 A2, JP2008014268 A2, JP2006334847 A2, JP2006329146 A2, JP2005155427 A2, JP2004245155 A2, JP2002149865 A2, JP2001173550 A2, JP1163478 A2, GB2072756 A1, EP1438503 B1, EP0137502 A2,

DE602004005578 T2

DE10108468 A1, CN2410440, CN1804392 A, CN1685150, CN1369038, CN1298995 C, CN1103134 A, CN102325096 A, CN102264939, CN102067049 A, CN101809263 A, CN101688407 A, CN101437705 A, CN101287640 A,

Forward Citations: WO17120080, WO17050332, WO17050331, WO16196279, WO16168295, WO16156074, WO16109137, WO14080344, WO12076247, US9829304, US9775252, US9773627, US9764706, US9727254, US9689380, US9664182, US9588020, US9581147, US9316212, US9314885, US9267493, US9127483, US9091252, US9090334, US9067526, US9052243, US9016057, US8966893, US8804294, US8797703, US8789366, US8764286, US8733097, US8703268, US8687340, US8661810, US8640455, US8567188, US8534064, US8511082, US8495761, US8299637, US7839260, US2017229990, US2017139612, US2016347252, US2016264086, US2015323424, US2015136910, US2015083868, US2014346980, US2014298794, US2014225708, US2014096516, US2014026554, US2013305705, US2013298548, US2013240320, US2013239565, US2013227943, US2013064627, US2013055708, US2012234000, US2012113558, US2011321203, US2011296826, US2011234362, US2011232562, US2011140456, US2011139396, US2011139395, US2011114791, US2010236236, US2009108779, TWI579740, DE102016217985, DE102016217624, DE102014111460, CN104847611, CN104075650, CN103375376, CN102778075, CN102778075, CN102678496, CN102678495, CN102678495, CN102678494, CN102678494, CN102298244, CN102269142,

Abstract:
Source: US2009277169A An overheating protection system adapted for use with a shape memory alloy actuator element, includes at least one switching shape memory alloy element presenting a slower activation period than that of the actuator element, and configured to selectively prevent activation of the actuator element, when the actuator element is actually or predicted to be experiencing overheating; and a circuit comprising the system, wherein the switching element and/or a circuit implement functions to modify activation of the actuator element.

0) US4294429A – PULLEY ASSEMBLY FOR IMPROVING THE COOPERATION B...

4) Family number: 1361224 (US4294429A) © PatBase

Title: Pulley assembly for improving the cooperation between a winch and a cable actuated thereby

Priority:

AU19790049814 19790810	AU19790049842 19790813	FR19790014188 19790601
FR19780024359 19780822	CA19790334222 19790821	CA19790335355 19790910
GB19790028998 19790821	GB19790029136 19790821	JP19790104713U 19790729

Family:

Publication number	Publication date	Application number	Application date
AU197949814 A1	19800228	AU19790049814	19790810
AU197949842 A1	19810219	AU19790049842	19790813
AU4981479 A1	19800228	AU19790049814D	19790810
AU530631 B2	19830721	AU19790049814	19790810
BE878222 A	19791203	BE19790196715	19790813
BE878222 A1	19791203	BE19790196715	19790813
BR7905317 A	19800520	BR19790005317	19790817
CA1105920 A1	19810728	CA19790334222	19790821
CA1121794 A1	19820413	CA19790335355	19790910
CH630875 A	19820715	CH19790007329	19790810
CS216679 B2	19821126	CS19790005487	19790810
DE2931958 A1	19800306	DE19792931958	19790807
DE2931958 C2	19830127	DE19792931958	19790807
DE2937293 A1	19801218	DE19792937293	19790914
DE2937293 C2	19841108	DE19792937293	19790914
ES483462 A1	19800416	ES19790483462	19790817
FR2434111 A1	19800321	FR19780024359	19780822
FR2434111 B1	19820312	FR19780024359	19780822
FR2457834 A1	19801226	FR19790014188	19790601
FR2457834 B1	19830107	FR19790014188	19790601
GB2031364 A1	19800423	GB19790029136	19790821
GB2031364 B2	19830202	GB19790029136	19790821
GB2060107 A1	19810429	GB19790028998	19790821
GB2110632 A1	19830622	GB19820012413	19820429
GB2110632 B2	19840606	GB19820012413	19820429
IN152865 A	19840421	IN1979DE00570	19790807
IT1123525 A	19860430	IT19790025146	19790816
IT7925146 A0	19790816	IT19790025146	19790816
JP1058377 B4	19891211	JP19790104486	19790816
JP1457394 C3	19880909	JP19790115075	19790907
JP1577315 C3	19900824	JP19790104486	19790816
JP55060741 A2	19800508	JP19790104486	19790816
JP55161790 A2	19801216	JP19790115075	19790907
JP56021618 U1	19810226	JP19790104713U	19790729
JP62054756 B4	19871117	JP19790115075	19790907
MX148642 A	19830520	MX19790178928	19790815
SE421608 B	19820118	SE19790006919	19790820
SE421608 C	19820429	SE19790006919	19790820
SE7906919 A	19800223	SE19790006919D	19790820
US4294429 A	19811013	US19790066276	19790813

US4309139 A	19820105	US19800127977	19800306	
US4316602 A	19820223	US19790068812	19790822	

Probable Assignee: TRACTEL SA

Assignee(s):(std)**:** KISHU NEJI CO LTD ; TRACTE S A ; KISHI NEJI CO LTD ; TRACTEL SA

Assignee(s): TRACTEL S A BAGNOLET FR ; KISHU NEJI CO ; TRACTE SA ; TRACTEL S A ; TRACTEL S A 93170 BAGNOLET FR ; DESPLATS ANDRE

Inventor(s):(std)**:** ANDORE DESUPURA ; ANDRE DESPLATS ; DESPLATS A ; DESPLATS ANDRE ; NAKAE ISOJI

Inventor(s): A DESPLATS ; DESPLATS ANDRE BOULOGNE BILLANCOURT FR ; DESPLATS ANDRE FR ; ISOJI NAKAE

Agent(s): ROBIC ROBIC AND ASSOCIES ASSOCIATES

International class (IPC 8–9): B66B11/08 B66D1/58 B66D1/74 B66D3/04 F16B39/28 F16B39/282 F16G11/14 (Advanced/Invention); B66D1/00 B66D1/54 F16B39/00 F16G11/00 (Core/Invention)

International class (IPC 1–7): B23B3/00 B66B11/08 B66D1/00 B66D1/26 B66D1/28 B66D1/34 B66D1/48 B66D1/58 B66D1/74 B66D3/04 B66D3/06 B66D3/18 F16G11/12 F16G11/14 F16H55/50

CPC: B66D1/7415 B66D1/58 F16B39/282

European class: B66D1/58 B66D1/74D F16B39/282

US class: 104/173.1 104/230 254/270 254/272 254/287 254/333 411/187

Classification Explorer

Cited documents: US4220188 A, US4139178 A, US3949969 A, US3944185 A, US3666239 A, US3608389 A, US3405651 A, US3118635 A, US3078899 A, US2917278 A, US268068 A, US2662732 A, US2555501 A, US2147211 A, US1612955 A, US1355373 A, JP52114164 U1, JP52023473 U1, JP50130021 U1, JP40002500 A2, GB799014 A, GB524115 A, GB1379683 A, FR2307761 A1, FR2233269 A1, FR2036970 A1, FR1389136 A, FR1216411 A, DE627178 A, DE366667 A, DE2522033 A1, DE2307370 A1, CH546703 A, CH494704 A, CH119296 A, BE827486 A,

Forward Citations: WO13004663, US9790064, US9422140, US9198691, US8480714, US8382806, US8317160, US8147522, US8142481, US8097025, US8092504, US8066745, US8029539, US8016866, US8012185, US7717943, US7686835, US7662172, US7604655, US6102951, US6098962, US5887915, US5664796, US5474555, US5259269, US5205219, US5129626, US5071300, US4821842, US4811669, US4710081, US4557465, US2010204738, US2010179603, US2010152788, US2010063553, US2009163961, US2009095574, US2008312655, US2008071277, US2007123867, US2007043357, US2004240960, US2004149973, KR101226015, JP2005172237, GB2178716, FR2647427, FR2632374, FR2618421, EP0699620, EP0401099, EP0363800, EP0300892, EP0205004, EP0198409, DE19722867, CN103648960,

Abstract:
Source: US4294429A In this cable hoisting apparatus at least two pulleys disposed in a common plane have in the one a semi−circular−sectioned groove and in the other a V−shaped groove section, the first pulley receiving the load and the other pulley being responsive to the tightening mechanism controlled by the load. Thus, the pulley having a semi−circular sectioned groove will not damage the cable and the cable is retained therein by adherence, thus reducing as much the load exerted on the cable section engaging the second pulley, whereby a lesser retaining effort is exerted on this second pulley; when a pressure mechanism is provided for tensioning the cable in proportion to the load, said mechanism is associated with the pulley having the V−shaped groove.

0) US2017139070A – BACK DECK AUTOMATION

5) Family number: 65692036 (US2017139070A) © PatBase

Title: BACK DECK AUTOMATION

Priority: US20150256464P 20151117 US20160353439 20161116

Family:

Publication number	Publication date	Application number	Application date
US2017139070 AA	20170518	US20160353439	20161116
WO17087527 A1	20170526	WO2016US62287	20161116

Probable Assignee: FAIRFIELD IND INC

Assignee(s):(std)**:** FAIRFIELD IND INC

Inventor(s):(std)**:** CAMPBELL RICHARD ; MARC ETIENNE ; WORTHAN CHRISTOPHER

Agent(s): DE VELLIS JAMES 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 KM KN KP KR KW 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 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

International class (IPC 8–9): B63B21/66 B63B35/04 F16G11/02 G01V1/20 G01V1/38 (Advanced/Invention)

CPC: G01V1/3843 G01V1/202 B63B21/66 F16G11/025 G01V1/3852

Classification Explorer

Cited documents: US6024344 A, US2013263410 AA, US2010239367 AA, US2010054860 AA,

Abstract:
Source: US2017139070A Systems and methods of deploying seismic data acquisition units from a marine vessel are disclosed. The system can include a spindle coupled to a tether. A robotic arm can couple the spindle to a tether via one or more tumblers. The tether can connect to a seismic data acquisition unit via a connection block having a mechanical force device. The assembled spindle, tether and seismic data acquisition unit can be deployed from the deck via a deployment block.

6) Family number: 67010894 (WO17194666A1) © PatBase

Title: TRACKED LIFTING PLATFORM FOR VEHICLES, AND LIFTING MECHANISM FOR A TRACKED LIFTING PLATFORM

Priority: DE201620102566U 20160512

Family:

Publication number	Publication date	Application number	Application date
DE202016102566 U1	20170921	DE201620102566U	20160512
WO17194666 A1	20171116	WO2017EP61307	20170511

Probable Assignee: FINKBEINER GERHARD

Assignee(s):(std)**:** FINKBEINER GERHARD

Assignee(s): FINKBEINER

Inventor(s):(std)**:** BENZ DIETER ; FINKBEINER GERHARD

Agent(s): PATENTANWAELTE MAMMEL U MASER

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 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

International class (IPC 8–9): B66F13/00 B66F3/06 B66F7/00 B66F7/10 F16G13/20 (Advanced/Invention)

CPC: B66F13/005 B66F3/06 B66F7/00

Classification Explorer

Cited documents: EP2531437 A1, EP0983897 B1,

Abstract:
Disclosed is a tracked lifting platform for vehicles (14), comprising at least two tracks (16); a lifting mechanism (18) for raising and lowering the track (16) between a basic position (19) and an operational position (12) acts at least on each end region of each track (16), said lifting mechanism (18) being equipped with a pushing column (21) that includes a plurality of pushing elements (23) which can be placed on top of each other in such a way as to be resistant to pressure in the vertical direction.

0) US2317460A – ELECTRON RAY INDICATING DEVICE

7) Family number: 19416122 (US2317460A) © PatBase

Title: ELECTRON RAY INDICATING DEVICE

Priority:

DE1950L003021	19500709	DE1950L003025	19500709	DE1950L003026	19500709
DE1950L014079U	19500708	DE1950L006265	19501112	DE1951A013647	19510708
DE1951L010289	19511007	DE1951L008579	19510321	DE1951L010017	19510906
DE1951T005400	19511206	DE1951M010157	19510705	DE1951S023848	19510707
DE1951U001251	19510707	DE1951M009582	19510519	GB19530017334	19530623
DE1966P038757	19660211	DE1960ST16366	19600416	US19400346918	19400723
US19410423705	19411220	US19450606830	19450724	FR19610858793	19610414
DE1955P013761	19550314	DE1952S031179	19521124	US19510235634	19510707
US19510231262	19510612	US19510231261	19510612	US19510235114	19510703
US19510228814	19510529	US19510234704	19510702	GB19510016035	19510705
US19570645746	19570313				

Family:

Publication number	Publication date	Application number	Application date
AU156517 A1	00000000		00000000
BE501567 A	00000000		00000000
BE501568 A	00000000		00000000
BE504546 A	00000000		00000000
BE507046 A	00000000		00000000
BE512116 A	00000000		00000000
BE513971 A	00000000		00000000
CH281205 A	19520229		19500708
CH293273 A	19530915		00000000
CH293500 A	19530930		19510705
CH293961 A	19531031		19510707
CH299070 A	19540531		00000000
CH455948 A	19680515	CH19670001873	19670208
DE1029940 B	19580514	DE1952S031179	19521124
DE1038201 B	19580904	DE1955P013761	19550314
DE1121234 B	19620104	DE1960ST16366	19600416
DE1252326 B	00000000		00000000
DE1564490 B1	19700820	DE19661564490	19660211
DE1790489 U	19590618	DE1950L014079U	19500708
DE809951 A	19510806	DE1950L003025	19500709
DE809952 A	19510806	DE1950L003026	19500709
DE853873 A	19521027	DE1951S023848	19510707
DE860219 A	19521218	DE1951U001251	19510707
DE860935 A	19521229	DE1951M009582	19510519
DE868075 A	19530223	DE1951M010157	19510705
DE909008 A	19540412	DE1951T005400	19511206
DE938393 A	19560126	DE1951L010289	19511007
DE939126 A	19560216	DE1951A013647	19510708
DE950945 A	19561018	DE1950L003021	19500709
DE950946 A	19561018	DE1950L006265	19501112
DE967560 A	19571121	DE1951L010017	19510906
DE973132 A	19591210	DE1951L008579	19510321
ES336625 A1	19680101	ES19670336625	19670209
FR1021668 A	19530223		19500708
FR1021670 A	19530223		19500708

FR1021675 A	19530223		19500708	
FR1021676 A	19530223		19500708	
FR1021677 A	19530223		19500708	
FR1021678 A	19530223		19500708	
FR1021679 A	19530223		19500708	
FR1021681 A	19530223		19500708	
FR1021682 A	19530223		19500708	
FR1021683 A	19530223		19500708	
FR1021684 A	19530223		19500708	
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FR1021691 A	19530223		19500708	
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FR1021694 A	19530223		19500708	
FR1021695 A	19530223		19500708	
FR1021696 A	19530223		19500708	
FR1023129 A	19530313		19500708	
FR1031053 A	19530619		19510116	
FR1033240 A	19530709		00000000	
FR1035142 A	19530817		19510406	
FR1038479 A	19530929		19510618	
FR1038556 A	19530930		19510131	
FR1038900 A	19531002		19510621	
FR1038901 A	19531002		19510621	
FR1039212 A	19531006		19510629	
FR1039326 A	19531006		19510703	
FR1039469 A	19531007		19510707	
FR1039718 A	19531009		19510706	
FR1046655 A	19531208		19510705	
FR1047788 A	19531216		19510608	
FR1051147 A	19540113		19510618	
FR1055786 A	19540222		19500708	
FR1055896 A	19540223		19510618	
FR1055910 A	19540223		19510704	
FR1055911 A	19540223		19510705	
FR1056769 A	19540302		19510523	
FR1056776 A	19540302		19510705	
FR1059872 A	19540329		00000000	
FR1286382 A	19620302	FR19610858793	19610414	
FR1511277 A	19680126	FR19670094634	19670213	
FR69854 E	19590109		00000000	
GB1165995 A	19691001	GB19670005965	19670208	
GB682938 A	19521119	GB19510016125	19510706	
GB684222 A	19521210	GB19510014766	19510621	
GB688747 A	19530311	GB19510016035	19510705	
GB699529 A	19531111	GB19510015020	19510625	
GB699836 A	19531118	GB19510014225	19510615	
GB700192 A	19531125	GB19510004468	19510223	
GB703660 A	19540210	GB19510015488	19510629	
GB721460 A	19550105	GB19510028149	19511130	
GB727133 A	19550330	GB19510003818	19510216	

GB730548 A	19550525	GB19520007382	19520321	
GB737668 A	19550928	GB19530019518	19520801	
GB742466 A	19551230	GB19510026285	19511102	
GB754332 A	19560808	GB19530017334	19530623	
GB838078 A	19600622	GB19560025960	19560824	
GB978223 A	19641216	GB19610013575	19610414	
NL76700 C	00000000		00000000	
NL78923 C	00000000		00000000	
NL81844 C	00000000		00000000	
NL89130 C	00000000		00000000	
SE313122 B	19690804	SE19670001761	19670208	
US2317460 A	19430427	US19400346918	19400723	
US2394857 A	19460212	US19410423705	19411220	
US2513908 A	19500704	US19450606830	19450724	
US2603760 A	19520715	US19510234704	19510702	
US2646734 A	19530728	US19510228814	19510529	
US2673809 A	19540330	US19510235114	19510703	
US2684304 A	19540720	US19510231262	19510612	
US2695232 A	19541123	US19510235634	19510707	
US2712612 A	19550705	US19510256941	19511110	
US2749465 A	19560605	US19510209146	19510202	
US2764492 A	19560925	US19510231261	19510612	
US2820916 A	19580121	US19520307188	19520830	
US2927237 A	19600301	US19570645746	19570313	
US3161800 A	19641215	US19610101296	19610406	

Probable Assignee: INT STANDARD ELECTRIC CORP

Assignee(s):[(std)]**:** AIR PREHEATER ; ASEA AB ; BERKEL PATENT NV ; BABCOCK AND WILCOX FRANCE ; BBC BROWN BOVERI AND CIE ; BETONDAK NV ; GEN ELECTRIC ; F L SMIDTH AND COMPANY AS ; GUTEHOFFNUNGSHU TTE OBERHAUSEN ; ELECTRONIQUE AND AUTOMATISME SA ; FABRICATIONS IND POUR LE CHAUF ; INT STANDARD ELECTRIC CORP ; F L SMIDTH AND CO AS ; RCA CORP ; PHILIPS NV ; SIEMENS AG ; PHILIPS PATENTVERWALTUNG ; LEITZ ERNST GMBH ; MEZZERA SOC PER AZIONI ; MAGNANI ALESSANDRO ; SMIDTH AND CO F L AS ; SMIDTH AND CO AS F L ; LORENZ C AG ; SANDVIKENS JERNVERKS AB ; GUTEHOFFNUNGSHUETTE OBERHAUSEN ; HANIEL AND LUEG GMBH ; LURGI GES F WAERMETECHNIK ; ROLEX MONTRES ; LURGI GES FUER WAERMETECHNIK ; RUHRCHEMIE AG ; PHILIPS ELECTRONIC ASSOCIATED ; KLEBER COLOMBES ; REGIE AUTONOME DES PETROLES ; KAMYR AB ; TEVES ALFRED KG ; STANDARD ELEKTRIK LORENZ AG ; UNION CHIMIQUE BELGE SA ; TELEFUNKEN GMBH ; STANDARD TELEPHON and RADIO AG ; STANDARD TELEPHONES CABLES LTD

Assignee(s): SOCIETE DE FABRICATIONS INDUSTRIELLES POUR LE CHAU ; SOCIETE DE FABRICATIONS INDUSTRIELLES POUR LE CHAUFFAGE ET L AERATION SOFICA ; STANDARD TELEPHON U RADIO AG ; TELEFUNKEN GES F DRAHTLOSE TELEGRAPHIE M B H ; TELEFUNKEN GES F DRAHTLOSE TELEGRAPHIE MBH ; STANDARD ELEKTRIK LORENZ AKTIENGESELLSCHAFT ; SOCIETE D ELECTRONIQUE ET D AUTOMATISME ; STANDARD TELEPHONES AND CABLES LIMITED ; VAN BERKEL S PATENT N V MIJ ; SOCIETE ANONYME BROWN BOVERI AND COMPAGNIE ; UNION CHIMIQUE BELGE SOC ANONYME ; UNION CHIMIQUE BELGE SOCIETE ANONYME ; STANDARD TELEPHON UND RADIO AG ; UNION CHIMIQUE BELGE S A ; N V BETONDAK ; PHILIPS ELECTRONIC AND ASSOCIATED INDUSTRIES LIMITED ; LURGI GES F WAERMETECHNIK MBH ; RUHRCHEMIE AKTIENGESELLSCHAFT ; HANIEL AND LUEG G M B H ; LURGI GES F WAERMETECHNIK M ; LURGI GESELLSCHAFT FUER WAERMETECHNIK M B H ; MONTRES ROLEX ; SANDVIKENS JERNVERKS AKTIEBOLAG ; GUTEHOFFNUNGSHU TTE OBERHAUSEN A G ; PHILIPS PATENTVERWALTUNG G M B H ; PHILIPS PATENTVERWALTUNG GMBH ; N V PHILIPS GLOEILAMPENFABRIEKEN ; SIEMENS SCHUCKERTWERKE AG ; SIEMENS SCHUCKERTWERKE AKTIENGESELLSCHAFT ; MAATSCHAPPIJ VAN BERKEL S PATENT N V ; RADIO OF AMERICA CORP ; F L SMIDTH AND COMPANY A S ; RADIO

CORP ; BROWN BOVERI AND COMP AG ; D ELECTRONIQUE ET D AUTOMATISME SOC ; GENERAL ELECTRIC CO ; ERNST LEITZ GMBH ; ERNST LEITZ G M B H ; ERNST LEITZ GES MIT BESCHRANKTER HAFTUNG ; ERNST LEITZ GESELLSCHAFT MIT BESCHRANKTER HAFTUNG ; F L SMIDTH AND CO A S ; FRANCAISE DES CONSTRUCTIONS BABCOCK AND WI SOC ; FRANCAISE DES CONSTRUCTIONS BABCOCK AND WILCOX SOC ; C LORENZ AG ; C LORENZ AKTIENGESELLSCHAFT ; GENERAL ELECTRIC COMPANY ; BROWN BOVERI AND CIE AG ; ALESSANDRO MAGNANI ; AIR PREHEATER CORP ; AKTIEBOLAGET KAMYR ; AKTIENGESELLSCHAFT BROWN BOVERI AND CIE ; AKTIENGESELLSCHAFT BROWN BOVERI AND COMPAGNIE ; ALFRED TEVES MASCH U ARMATURENFABRIK KOMMAND ; ALFRED TEVES MASCH U ARMATURENFABRIK KG ; ALLMANNA SVENSKA ELEKTRISKA AKTIEBOLAGET

Inventor(s):(std)**:** ALESSANDRO MAGNANI ; AWERBUCH NATHAN ; BAER HERBERT ; BAILEY FRANCIS M ; BOVERI CIE AG ; BOVERI CIE AKTIENGESELLSCHAFT ; BRUNEL HENRI ; BRUNNER AUGUST ; CARL RICHTER JOHAN CHRISTOFFER ; CESTARELLI ATTILIO ; CHOLLET LOUIS JEAN ; FRANKE KURT DIPL ING ; FRIEDRICH GEORG ; GODFRINE ANDRE ; GUDE DR ING HELMUTH TE ; HEISING HANS GUNTHER ; HERMANN KOEHER ; HOPPE GEORG ; HUYGHE ALBERT GASTON JOSEPH ; JERNVERKS AKTIEBOLAG SANDVIKEN ; ADAM WAGNER ; CROZE RAYMOND PAUL MARIE ; DUYN ADRIANUS VAN ; F L SMIDTH CO A S ; JUNGHANS WOLFGANG ; KURT FRANKE ; LEGER VICTOR LOUIS ANDRE ; LESVIGNE FRANCOIS HENRI ; LIEB ALBERT DIPL ING ; MAGNANI ALESSANDRO ; MALSCH DR FRIEDRICH ; NEBEL MAX ; RADIO AG STANDARD TELEPHON UND ; RADIO STANDARD TELEPHON U AG ; RICHTER JOHAN CHRISTOFFER FRED ; ROI RENE CHARLES ; ROTHE DR ING HORST ; SCHAAFF DR PHIL NAT ERNST ; SCHEMLA MEYER GUY ; SOKOLOFF BORIS ALEXANDRE ; TAFFOUREAU PHILEAS EMILE JULES ; THOMAS ALBERT ; TOUSON ISAAC ; UNGEMACH OTTO DR ; OTTO UNGEMACH ; NORBERT MEINERT ; MEINERT NORBERT ; MALSCH FRIEDRICH K ; MALSCH FRIEDRICH ; GUSTAV WEISSENBERG ; FRIEDRICH MALSCH ; BREDOW HEINZ ; LIEB DIPL ING ALBERT ; LIEB ALBERT ; JUNGHANS W ; WAGNER EUGEN KARL AUGUST ; WALTER JUNG ; WOLFGANG JUNGHANS ; WEISSENBERG GUSTAV ; FRANKE K ; DJORDJEVITCH YESDIMIR ; ALBERT LIEB ; ALBERT HULTQUIST J

Inventor(s): UNGEMACH OTTO ; HULTQUIST J ALBERT ; WAGNER ADAM ; STANDARD TELEPHON U RADIO AG ; RICHTER JOHAN CHRISTOFFER FREDERIK CARL ; RICHTER JOHAN CHRISTOFFER FREDRIK CARL ; KOEHER HERMANN ; FRANKE KURT ; F L SMIDTH AND CO A S ; AG STANDARD TELEPHON UND RADIO ; AKTIEBOLAG SANDVIKENS JERNVERKS ; JUNG WALTER ; CIE AKTIENGESELLSCHAFT BROWN BOVERI and ; CIE BROWN BOVERI AND AG

International class(IPC 8–9)**:** A47J19/00 A47J47/10 A47K13/06 A61F2/64 A61M5/178 B01D45/14 B07B7/04 B23C5/26 B23K9/073 B28B1/52 B60H1/00 B62J6/06 B67B3/20 C03C27/12 C03C3/00 C03C3/072 C03C3/16 C03C3/17 C03C3/23 C07D213/86 C07D453/04 C09J189/00 C09K8/20 C10M175/00 D04B11/32 D06B17/06 D21C7/10 D21C7/12 E02D5/58 E04B2/14 E21B19/10 E21D11/18 F16D51/20 F16D65/14 F16D65/46 F16G3/02 F23D14/04 F28F3/02 G01G21/00 G01G23/18 G02C7/10 G02C7/16 G03B9/70 G04B19/14 G04B19/247 G04B19/253 H01J31/14 H01L35/32 H02J3/42 H02K21/12 H02P7/298 H03J3/14 H04M1/03 (Advanced/Invention); A47J19/00 A47J47/00 A47K13/00 A61F2/60 A61M5/178 B01D45/12 B07B7/00 B23C5/00 B23K9/06 B28B1/52 B60H1/00 B67B3/00 C03C27/12 C03C3/00 C03C3/062 C03C3/12 C07D213/00 C09J189/00 C09K8/02 C10M175/00 D04B11/00 D06B17/00 D21C7/00 E02D5/22 E21B19/00 E21D11/14 F16G3/00 F28F3/00 G01G21/00 G02C7/00 G03B9/00 G04B19/00 G04B19/06 H01J31/14 H01L35/32 H02J3/40 H02P7/18 H03J3/00 H04M1/03 (Core/Invention)

International class(IPC 1–7)**:** A47G19/18 A47J19/00 A47K13/06 A61F1/04 A61K31/49 A61M5/18 B01J3/02 B21C47/18 B21D41/02 B23C5/26 B23K9/12 B28B1/52 B60H1/00 B60H1/10 B65D17/16 C03C1/00 C03C3/12 C03C3/14 C03C3/16 C07D453/04 C09H11/00 C09K7/02 C10M11/00 D04B15/88 D06B3/16 D21C3/24 D21C7/00 D21C7/12 E02D5/58 E21B21/04 E21D11/14 E21D11/22 F01P5/02 F04D29/70 F16G3/02 F28F3/04 G01G21/04 G01G21/22 G01G23/40 G02B1/00 G02C7/16 G03B9/70 G04B19/14 G04B19/24 H01J31/14 H02K21/22 H02P7/30 H04M1/04

CPC: C07D213/86 H01J31/14 H03J3/14 F16D51/20 F16D65/46 F16D2125/32 H02J3/42 C07D453/04 G01G21/00 B07B7/04 F23D14/04 H01L35/32 B23C5/26 B23K9/0731 Y10S501/901 Y10S501/903 C03C3/072 C03C3/23 C03C3/17 C03C3/16 D06B17/06 Y10T74/2084 G03B9/70 B28B1/52 D04B11/32 E21D11/183 G04B19/14 G04B19/247 E21B19/10 F28F3/02 G01G23/18 A47K13/06 C07C27/28 C07B63/02 C07C27/34 A61F2/642 A61F2/646 A47J47/10 B62J6/06 H02K21/12 H02K2201/12 A61M5/178 H04M1/03 H02P7/298 A47J19/005 C10M175/0016 G02C7/105 G02C7/16 B01D45/14 F16G3/02 E02D5/58 C09K8/206 B60H1/00471 C09H11/00 E04B2/14 D21C7/10 D21C7/12 Y10S501/90 C03C3/00

European class: 12O27C2 A47J19/00C A47J47/10 A47K13/06 A61F2/64P A61M5/178 B01D45/14 B07B7/04 B23C5/26 B23K9/073B B28B1/52 B60H1/00K2 B62J6/06 C03C3/00 C03C3/072 C03C3/16 C03C3/17 C03C3/23 C07B63/02 C07C27/28 C07C27/34 C07D213/86 C07D453/04 C09H11/00 C09K8/20C C10M175/00C D04B11/32 D06B17/06 D21C7/10 D21C7/12 E02D5/58 E04B2/14 E21B19/10 E21D11/18D F16D51/20 F16D65/46 F16G3/02 F23D14/04 F28F3/02 G01G21/00 G01G23/18 G02C7/10 G02C7/16 G03B9/70 G04B19/14 G04B19/247 G04B19/24B G04B19/24B7D4 H01J31/14 H01L35/32 H02J3/42 H02K21/12 H02P7/298 H03J3/14 H04M1/03 K61F2/64P4 R16D125/32 T02K201/12

US class: 162/237 162/249 162/251 200/38A 200/61.58R 210/181 210/316 210/340 219/130.4 219/137.71 235/64.7 313/107.5 313/258 313/261 313/296 313/303 313/326 313/357 313/495 314/76 315/13.1 318/141 318/158 318/286 318/479 324/121.00R 324/121R 334/35 334/36 396/187 455/159.1 455/212 501/41 501/42 501/43 501/44 501/45 501/47 501/48 501/53 501/74 501/900 501/901 501/903 65/374.12 74/553

Classification Explorer

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Forward Citations: WO9603412, WO11096857, USD626805, USB286499, US9535403, US5985096, US5770072, US5512666, US5236554, US5069752, US4971518, US4695765, US4693785, US4637878, US4568419, US4469800, US4387322, US4206174, US4164610, US4026714, US3964962, US3935018, US3914129, US3880663, US3751272, US3441475, US3385753, US3299305, US3298899, US3277269, US3216836, US3200032, US3193444, US3161800, US3144578, US3043702, US3035962, US3025124, US3009819, US3007839, US2998064, US2996393, US2996390, US2977859, US2954493, US2937575, US2933404, US2933025, US2930298, US2912904, US2829294, US2822494, US2820916, US2814192, US2805352, US2802128, US2799790, US2784650, US2767341, US2750546, US2736834, US2600063, US2594026, US2594025, US2513908, US2002129911, ITBO20110106, GB2144575, FR2544394, FR2483801, FR2444156, EP2899597, EP1364815, EP0234039, EP0234039, DE975723, DE973132, DE959481, DE951759, DE950946, DE2846363, DE2708651, DE2708651, DE2306143, DE1596841, DE1564490, DE1455848, DE1292529, DE1284317, DE1281828, DE1268477, DE1216443, DE1121234, DE1120087, DE1118895, DE1090779, DE1069674, DE1059053, DE1045557, DE1038201, DE1036799, DE1029490, DE1001762, AU2013100027,

Abstract:
Source: US2317460A 700,192. Cathode−ray tubes. STANDARD TELEPHONES and CABLES, Ltd. Feb. 23, 1951 [Feb. 28, 1950], No. 4468/51. Class 39(1) In a visual indicator, preferably a tuning indicator, comprising cathode 2, Fig. 1, and a rodlike deflecting electrode 3 for determining a shadow angle on a cup−shaped fluorescent screen 4, two positively biased plate−shaped 'counter electrodes' 1 are disposed adjacent and parallel to the cathode and symmetrically on either side of the plane containing the cathode axis and centre of the deflecting electrode. The screen 4 and counter electrodes are at high positive potentials, which may be the same, relatively to the cathode and deflecting electrode. It is stated that due to the strong fields set up between 2 and 1 and between 1 and 3 the 'shadow angle' 6 is increased to 160 degrees compared with 100 degrees in prior art constructions. A grid (not shown) at approximately cathode potential may be arranged between the cathode and the other electrodes and a screening cap 5 is also provided. In a modification, Fig. 3, the counter electrodes (not shown) are inclined and the electrodes arranged eccentrically near the periphery of the fluorescent screen 4, so that a 'shadow sector' of about 180 degrees is obtained. To make the shadow edges straight lines and so to facilitate precise reading from a scale on the fluorescent screen the rod deflecting electrode 10 is arched as shown. Electrode 10 may be of oval, prismatic or elliptical cross section. Specification 481,790 is referred to.

0) US4854426A – HANDBRAKE COMPENSATOR FOR MOTOR VEHICLES

8) Family number: 18858374 (US4854426A) © PatBase

Title: HANDBRAKE COMPENSATOR FOR MOTOR VEHICLES

Priority: ES19870002034 19870710

Family:

Publication number	Publication date	Application number	Application date
DE3819177 A1	19890119	DE19883819177	19880606
ES2004746 AF	19890201	ES19870002034	19870710
FR2617784 A1	19890113	FR19880009119	19880701
FR2617784 B1	19930820	FR19880009119	19880701
GB2207207 A1	19890125	GB19880016450	19880711
GB2207207 B2	19910213	GB19880016450	19880711
GB8816450 A0	19880817	GB19880016450	19880711
IT1219339 A	19900503	IT19880067497	19880527
IT8867497 A0	19880527	IT19880067497	19880527
JP1030871 A2	19890201	JP19880171701	19880708
JP64030871 A2	19890201	JP19880171701	19880708
SE8801685 A	19890111	SE19880001685	19880504
SE8801685 A0	19880504	SE19880001685	19880504
SE8801685 L	19890111	SE19880001685	19880504
US4854426 A	19890808	US19880209857	19880622

Probable Assignee: PUJOL AND TARAGO

Assignee(s):(std)**:** PUHORU Y TARAGO SA ; PUJOL AND TARAGO ; PUJOL TARAGO SA ; PUJOL TARRAGO SA ; BUJOL AND TARRAGO SA ; PUJOL Y TARRAGO SA

Assignee(s): PUJOL Y TARRAGO S A ; BUJOL Y TARRAGO S A ; BUJOL Y TARRAGO SA ; PUJOL Y TARRAGO S A RUBI ES

Inventor(s):(std)**:** ANTONIO TORIRA SEGURA ; ANTONIO TRILLA SEGURA ; BIKUTORINO SORANO SARANTO ; SALLANT VICTORINO SOLANO ; SEGURA ANTONIO TRILLA ; SOLANO SALLANT V ; SOLANO SALLANT VICTORINO ; SOLANO SALLANT VICTORINO DR IN ; SOLANO VICTORINO ; SOLANO VICTORINO SALLANT ; TRILLA ANTONIO ; TRILLA ANTONIO SEGURA ; TRILLA SEGURA A ; TRILLA SEGURA ANTONIO ; TRILLA SEGURA ANTONIO DIPL ING ; A TRILLA SEGURA ; V SOLANO SALLANT ; VICTORINO SOLANO SALLANT

Inventor(s): VICTORINO SALLANT SOLANO ; ANTONIO SEGURA TRILLA ; TRILLA SEGURA ANTONIO DIPL ING BARCELONA ES ; SOLANO SALLANT VICTORINO DR ING ; SOLANO SALLANT VICTORINO DR ING SANT CUGAT DEL VAL

International class (IPC 8–9): B60T11/04 B60T11/06 F16G11/12 (Advanced/Invention) ; B60T11/00 F16G11/00 (Core/Invention)

International class (IPC 1–7): B60T11/04 B60T11/06 B60T17/18 B60T7/08 E04B1/62 F16D65/44 F16G11/12

CPC: Y10T74/20408 B60T11/06 B60T11/046 F16G11/12

European class: B60T11/04D B60T11/06 F16G11/12

US class: 188/196.00M 188/196M 74/501.50R 74/501.5R

Classification Explorer

Cited documents: US4235046 A, US3333660 A, US2249220 A, FR2443358 A1, FR2428280 A1, DE2923318 A1, DE2853111 A1, DE2750904 A1,

Forward Citations: WO9830433, US8631911, US8179776, US5386887, US5222413, US2011094838, FR2737320, FR2709846, EP1453709, EP0582934, DE102007037671,

Abstract:
Source: US4854426A A handbrake compensator for a motor vehicle includes a support having a tubular body

receiving a spring and two opposing flanges. The support is connected to a load distributor element which transmits load from a primary cable to a secondary cable connected to a wheel. The load distributor element has two opposing wings provided with elongated slots which receive a cap screw which connects the load distributor element to the support. One of the slots has toothed edges so that the screw can be moved axially of the support to adjust the position of the load distributor element relative to the spring to thereby adjust tension of the cables.

0) OA2945A – SYSTEME DE RACCORDEMENT ET DE FIXATION D'ELEMEN...

9) Family number: 32785913 (OA2945A) © PatBase

Title:	SYSTEME DE RACCORDEMENT ET DE FIXATION D'ELEMENTS DE JONCTION FLEXIBLES ET DE CONDUCTEURS ELECTRIQUES. SYSTEM WIRING AND FIXING ELEMENTS JUNCTION FLEXIBLE AND ELECTRICAL CONDUCTORS. (Machine translation)
Priority:	OA19680053440 19681202

Family:

Publication number	Publication date	Application number	Application date
OA2945 A	19701215	OA19680053440	19681202

Probable Assignee:	PASBRIG MAX
Assignee(s):(std)	PASBRIG MAX
Assignee(s):	MAX PASBRIG
International class (IPC 8–9):	F16G11/10 H01R4/52 (Advanced/Invention); F16G11/00 H01R4/52 (Core/Invention)
International class (IPC 1–7):	F16G11/10 H01R4/52
CPC:	F16G11/106 F16G11/108 H01R4/52 F16G11/12
European class:	F16G11/10 H01R4/52

Classification Explorer

Abstract:
Source: OA2945A [Source: Claim 1] ***** WARNING: OCR DATA – DESCRIPTION AND CLAIMS MAY OVERLAP *** *** Please email the Publication Number to Patbase@rws.com of any affected text for review ***** RE SUMS Systeme de raccordement et de fixation amovibles d'elements de jonction flexibles et de conducteurs electriques, oii une piece de serrage a ressort, guidee dans une chambre d'un boitier, verrouille, entre elle meme et la paroi de la chambre, 1'element 5 de jonction ou le eonducteur electrique, et presentant, isolement ou en combinaison, les caracteres inventifs suivants: 1. la chambre est formee par la rencontre de deux alesages se rejoingnant a angle aigu, grace a quoi le ressort qui maintient oscillante la piece de serrage est guide dans un des alesages, 10 et 1 'element de jonction, ou le conducteur electrique, dans l'autre alesage. / 2, le ressort qui sollicite la piece de serrage est un ressort a boudin enroule en cone, et a une extremite duquel est accorche la piece de serrage, qui presente une queue a elargissement. 15 5. Pour le deverrouillage ou l'introduction d'un element de jonction, on prevoit un bouton de commande mobile, au moyen duquel la piece de serrage peut etre rappelee en arriere malgre le ressort a bou– din annexe. 4. Pour s'assurer contre une liberation imprevue, 1'auto–verrouilla– 20 ge du bouton de commande se fait sous l'action d'un ressort et/ ou d'un aimant, dirige transversalement a la force du ressort a boudin annexe a la piece de serrage, et le bouton de commande est maintenu par une fermeture a farce ou de forme. / 5 5. Un dispositif tendeur est fixe amovible, avec des moyens de fixation de 1'element de jonction sortant de la chambre qui renferme 25 la piece de serrage. 6. le boitier presente une fente ouverte en permanence, ou pouvant etre masquee, et qui s'etend de 11exterieur jusqu'a la chambre renfermant la piece de serrage., 7. le systeme constitue un tendeur pour ceinture de securite, tandis que, dans une chambre de large section transversale rec– tangulaire, plusieurs pieces de serrage sont rangees les unes a cote des autres, et bloquent la ceinture de securite en auto– verrouillage. – 8. le col de la piece de serrage est articule mobile sur un coulisseau qui glisse dans l'alesage ou se trouve le ressort, et est fixe au bouton de commande. 9. Pour le raccordement de deux elements de jonction, deux alesages d'ecartement angulaire de 180 degrees conduisent dans la chambre ou est place un ressort a boudin a spires en double cone, et dont les extremites portent chacune une piece de serrage; au moins une fente longitudinale est menagee dans la gaine du boitier, et un bouton de commande peut s'y deplacer. 10. Dans le systeme correspondant a l'alinea 3» la queue de la piece de serrage est saisie par l'extremite, coudee en noeud coulant, d'un fil guide par une fente vers le bouton de commande. / 11. Dans le systeme conforme a l'alinea 1, il y a deux alesages opposes, a l'extremite de l'alesagui recoit le ressort; un crochet y est ancre par son extremite, et l'extremite du crochet S en saillie a l'interieur de l'alesage, sert de siege de "butee pour le ressort. / 11. Pans le systeme conforme a 11 alinea 9, le boitier presente deux fentes diametralement opposees et s'etendant jusqu'a la chambre qui recoit le ressort a compression, et l'alesage contient une piece de guidage a ergots faisant saillie exterieurement par la fente, et aux extremites exterieures desquels sont montes les elements de commande. z 13. ""ans le systeme conforme a l'alinea 8, a l'extremite de la queue de la niece de serrage, on a prevu une broche–support trans– versale a cette queue, et qui est mobile, articulee dans une gorge du coulisseau. / 14. bans le systeme conforme a l'alinea 4, le bouton de commande est mobile axialement et basculable dans une entaille de la gaine du systeme, ou la paroi de l'entaille situee dans la direction de la commande de liberation du bouton de commande,.presente des crans profiles encoulisse. / 13. Dans un systeme conforme a 1'alinea 5» le dispositif tendeur comprend un bras de levier se terminant, a une de ses extremites, par une fourchette et, dans sa partie en fourchette, il y a des broches qui sont recues dans lew alesages opposes du boit40ti ou bien dans une broche perpendiculaire a l'axe longitudinal

du boitier present, a une de ses extremites, un oeil dans lequel peut–etre enfoncee une des branches de la fourchette du levier ci–dessus, et dont l'autre extremite est entouree par la seconde branche de la fourchette, profilee a cet effet, 16. Dans le systeme conforme a l'alinea 15» le levier presente une fente ouverte lateralement, dans laquelle peut etre introduit 1'element de jonction, et dans laquelle un systeme de serrage, consistant en un ressort a lame et une piece de serrage, est prevu pour l'element de jonction. 17. Dans le systeme conforme aux alineas 5 et 15, le levier est equipe d'un systeme de serrage comportant un manchon avec un ressort a boudin, une piece de serrage et un bouton de commande. / 18. Dans un systeme conforme a l'alinea 5, le dispositif tendeur pour la fixation du cable, possede un serrage a excentrique ou un appendice a plusieurs enroulements. 19. Dans un systeme conforme a l'alinea 6, une chambre recevant la oiece de serrage dans sa position d'ouverture est prevue a partir de l'extremite de l'alesage interieur retreci, a l'in– terieur du boitier, obliquement par rapport a l'alesage./•' 20. Dans un systeme conforme a l'alinea 6, la surface de pression de la piece de serrage epouse 1'element de jonction, ou a un profil concave, en sorte que l'element de jonction, en etat de verrouillage, ne peut s'echapper lateralement dans la direction de la fente. z 21. D percent ns un systeme conforme a l'alinea 6, la fente est dessinee en labyrinthe, pour interdire a 1'element de jonction en place tout glissement vers l'exterieur. 22. Dans un systeme conforme a l'alinea 6, le boitier consiste en un manchon de section transversale en U, dont le cote ouvert peut etre masque par un couvercle. // 23. Dans un systeme conforme aux alineas 6 et 23» le couvercle glisse dans une paroi du manchon, et un verrou le maintient en position fermee. 24. Dans un systeme conforme aux alineas 6 et 22, la fente tra– 5 verse obliquement le manchon, et le reste de 1 ss alesage est ferme. 25. Dans un systeme conforme a l'alinea 6, il y a un manchon ae recouvrement mobile pour recouvrir la fente laterale. / 26. Dans un systeme conforme a l'alinea 6, pour la fixation d'un element de jonction tendu dans les deux directions, le dispositif 10 est a serrage double ou multiple,ou a chacune des deux extremites d'une chambre traversante, des ressorts sont montes, avec la piece de serrage associee, en direction d'action opposee. / 27. Dans un systeme conforme a 1'alinea 6, il y a un appendice d'arret pour la fixation a un mat ou a quelque autre point 15 fixe. / 28. Dans un systeme conforme a l'alinea 7, une fente d'introduc– tion et une fente de sortie debouchent a angle obtus dans la chambre du tendeur. 29. Dans un systeme conforme a l'alinea 7, un organe de commande 20 se presente comme un coulisseau faisant saillie sur toute la longueur du tendeur, avec des pieces de prise laterales, et les pieces de serrage sont montees mobiles sur le coulisseau, de sorte qu'il y a possibilite de basculage de ces pieces dans un plan perpendiculaire a la surface de la ceinture. 25 30. Dans un systeme conforme a l'alinea 7, les pieces de serrage r sont dessinees en profiles plats, ou, en profil, une tete elargie se raccorde a une surface de contact cannelee tournee vers la ceinture, et qui, au–dela d'une queue plus mince, se termine par une bille de positionnement a l'extremite de la piece de serrage.>– 31. Bans un systeme conforme a l'alinea 7, le tendeur est constitue en fermoir double, avec deux jeux de pieces de serrage,ressorts, fentes d'introduction et de sortie, de sorte que chacune des pieces de la ceinture permet un raccour– cissement et un serrage auto–verrouillant, a moins qu'un jeu de pieces de serrage soit agence a une hamjpe fixee a une piece de la ceinture, et l'autre, a l'autre piece de celle–ci. / 31. Dans un systeme conforme aux alineas 7 et 30, dans chaque jeu de pieces de serrage, la piece du milieu est piriforme, et les pieces, exterieures on un profil plat. 33. Dans un. systeme conforme aux alineas 7 et 30, des bandes de tole mince, coudees, sont accrochees aux queues des pieces de serrage, et sont reliees a un coulisseau de commande mobile sur le cote superieur du tendeur. 34. Systeme de raccordement amovible de plusieurs conducteurs electriques, conforme au premier alinea, caracterise par un certain de nombre de pieces en forme de manchon, placees a certains intervalles les unes des autres, presentant chacune un alesage interieur de part en part, et deux alesages obliques debouchant au voisinage de l'une des ouvertures frontales des alesages interieurs, ainsi qu'un ressort dans chacun de ceux–ci; – par des pieces de serrage fixees chacune aux deux extremites frontales de–' ressorts, qui les pressent contre les ouvertures frontales; – enfin par un domino en matiere synthetique, ou 5 sont loges les corps ou pieces en forme de manchon. 35. Dans un systeme selon le premier alinea, les chambres ren– fermant les pieces de serrage et les extremites des conducteurs electriques que l'on y enfonce, sont montees directement dans le boitier d'un appareil electrique. / 10 36. Dans un systeme de raccordement amovible de plusieurs con– ducteurs electriques, conforme aux premier alinea, plusieurs corps conducteurs en forme de plaque, qui presentent des alesages, des chambres, des ressorts et des pieces de serrage, sont separes electriquement les uns des autres par des plaques en matiere syn– 15 thetique, et saisie dlun seul tenant par un cadre commun en matiere synthetique; les corps conducteurs plats relient des alesages interieurs determines aux pieces de serrage individuelles, conduisant dans le bloc les unes avec les autres. S 37. Dans un systeme de raccordement amovible de plusieurs conduc– 20 teurs electriques, conforme au premier alinea, le s alesages inte– rieurs contenant les ressorts vont d'une paroi laterale d'un bloc en un materiau conducteur, jusqu'a la paroi laterale oppcsee. / 38. Dans un systeme conforme aux alineas 1 et 36, le bloc con– ducteur e and t de forme cylindrique, et les alesages obliques sortent 25 de la surfacede sa gaine • 39. Systeme conforme a l'alinea 36, ou, dans les corps en forme de plaque, des fentes courent parallelement aux alesages inte– rieurs, qu'elles coupent; une tige de commande des ressorts et des pieces de serrere traversant ces corps de part en part a travers 1 'ensemble des alesages interieurs, y coulisse. 40. Dans un systeme selon le premier alinea, un dispositif de commande est constitue par;une source d'un agent pressurise, par le moyen duquel un courant de pression est cree dans l'alesage ou sont les ressorts, et fait reculer la piece de serrage malgre le ressort de celle–ci. ‘ 41. Dans un systeme conforme a 1'alinea 40, la chambre, commune a l'alesage interieur et a l'alesage oblique, laquelle contient la piece de serrage, communique d'un cote avec une ouverture d'amenee servant \ l'admission de l'agent de compression, et de l'autre cote, vec un event servant a 1'evacuation du meme agent; un retreo. ssement formant buse de venturi est place dans la direction du courant, en avant de la chambre., 42. Dans un system ' conforme a l'alinea 39 pour le raccordement de faisceaux de cables ou autres extremites de fils multiples, les chambres sont reliees par des canaux de facon a rendre pos– sible la commande simultanee d'un grand nombre de pieces de commande • /" 43. Dans un systeme conforme a l'alinea 39, les extremites des fils sont saisies dans des fiches en gouttiere ou en cuiller, qui sont introduites dans les chambres, et maintenues en auto–verrouil– lage par les pieces de serrage. / 44. Systeme de contact electrique conforme au premier alinea, ou, d ns la: ongueur de la chambre et dans la paroi de celle–ci, il y a une "bande conductrice electrique sur laquelle est raccordement electrique a coupler. 45ss ysteme conforme a l'alinea 44» ou, dans une

de serrage en domino, il y a deux rangees voisines de chambres dans le coprs commun, et les chambres respectivement opposees elon un angle aigu ouvert dans la direction d1introduction, tandis que les bandes conductrices ont une forme generale en V et reliant le s/une s avec les autres les chambres qui. se font;6, Dans un systeme conforme a l'alinea 44, l'alesage oblique par rapport a l'axe de la chambre qui recoit la piece de serrage, est une chambre fermee vers l'exterieur, pour recevoir 1'extremite introduite du conducteur. 47. Dans un systeme conforme a l'alinea 44, une levre estampee dans la bande conductrice, a l'entree de la chambre suivante, recoit l'extremite du conducteur. 48. Dans ce meme systeme, la bande conductrice est tiree dans la paroi de la chambre suivante.y 49. Dans ce meme systeme, la piece de serrage presente un alesage transversal a 1'extremite introduite du conducteur, et un element de commande peut y etre introduit pour deverrouiller l'extremite du conducteur. 50. "Dans un systeme,–elon l'alinea. 49» l'element de commande est une qui s'etend dans 1'alesage de la piece de serrage et est guidee dans les fentes dirigees selon l'axe de la chambre conte– nant la piece de serrage. z 5'1. "Dans un systeme conforme a l'alinea 45» tous les corps de serrage de chaque rangee, avec leurs alesages, sont enfiles, avec un certain intervalle, chacun sur une tige; la tige en matiere synthetique presente des renflements pour le maintien des intervalles des pieces de serrage, et elle est maintenue rotative dans les nieces de serrage. z 52. Dans un systeme conforme a l'alinea 51, il y a un coulisseau glissant dans chacune des entailles du corps de serrage en domino, qui agit sur les deux tiges portant les pieces de serrage, s'eten– dant,avec un certain intervalle entre elles, dans la direction longitudinale du domino de raccordement, de sorte qu'en manoeuvrant dans une premiere direction, les pieces de serrage qui s'y rappor– tent, sur le premier cote du domino, sont mises en jeu; dans l'autre direction, ce sont les pieces de serrage opposees. 55. Dans un systeme conforme a l'alinea 44, la bande conductrice est logee dans une rainure de la paroi de sa chambre, 54. Dans yn systeme conforme a l'alinea 44» la bande conductrice presente une creusure dirigee dans la longueur de l'extremite du conducteur, qu'elle recoit. BUGNION – UBAF S. A. B. P. 4038 NLONGKAK– YAOUNDE/CAMEROUN [Source: Claim 1] ***** WARNING: OCR DATA – DESCRIPTION AND CLAIMS MAY OVERLAP *** *** Please email the Publication Number to Patbase@rws.com of affected Any text for review ***** RE SUMS removable connection and fastening Systeme flexible junction Elements and electric conductors, OII a clamping part has spring, guided in a chamber of a housing, locks, even between her and the wall of the bedroom, 1 'element of junction 5 or eonducteur electric, and presenting, isolation or in combination, the following inventive characters: 1. the chamber is formed by the meeting of two bores rejoingnant a sharp angle, thanks which the spring that holds the swing tightening guide is room in one of the bores, 10 and 1 'element junction, or the electric conductor in the other bore. / 2, the spring biasing the clamping pieces is a spring coil is wound into cone, and at one end of which is accorche the clamping pieces, which presents a tail widening. 15 5. For the unlocking or the introduction of an element of junction, it provides for a mobile command button, by which the clamping pieces can be called backward despite the spring has button Din Annex. 4. To insure against unforeseen release, 1'auto verrouilla– 20–ge control knob is under the action of a spring and / or a magnet, runs transversely to the spring force has boudin Annex to the clamping pieces, and the button is held by a closure farce or form. / 5 5. A tensioning device is detachably fixed, with 1'element fixing means outgoing junction of the chamber 25 which contains the clamping part. 6. the case presents a permanently open slot, or can be masked, and that extends to 11exterieur until the chamber enclosing the clamping pieces. 7. The system is a tensioner seat belts, while in a wide cross–section rectangular room, more clamping parts are rows beside each other, and block the self locking in safety belt. – 8. the collar of the clamping pieces is articulated mobile on a slide that slides into the bore or is spring, and is fixed to the control knob. 9. For the connection of two Elements junction, two bores angular spacing of 180 degrees result in the room or is instead a spring coil has a double cone turns, each of which carry the ends a clamping pieces; at least one longitudinal slot is provided in the sheath of the case, and a control button can move it. 10. In the system corresponding to paragraph 3 'tail of the clamping pieces is entered by the extremity, bent in the noose of a guide wire through a slot to the button. / 11. In the system conforming to paragraph 1, there are two bores opposed, at the tip of the alesagui receives the spring; a hook is anchored there by its extremity, and the extremity of the S hook protruding on the inside of the bore, serves as headquarters of "Thrust for the spring. / 11. Pans the system conforms to 11 paragraph 9, the case presents two diametrically opposed slots and extending up to the room which receives a compression spring, and the bore contains a guide part has pins projecting externally through the slot, and External ends of which are mounted the elements of order. 13. z " 'years the system conforms to paragraph 8, at the tip of the tail of the clamping niece, a support pin was expected transverse to the tail, and is movable, articulated in a groove of the slide. / 14. bans the system conforms to paragraph 4, the control knob is axially movable and tiltable in a notch of the sheath of the system, or the wall of the notch situated in the direction of the release of control button order.presente encoulisse profiles of notches. / 13. In a system according to 1'alinea 5 »the tensioning device comprises a lever arm terminating, at one of its ends, by a fork and, in its part fork, there are pins which are received in lew BORE opposed the boit40ti or in a spindle perpendicular to the longitudinal axis of the housing present, has one of its ends, a look–in which can be pushed one of the branches of the range of the above lever, and whose other end is surrounded by the second leg of the fork, contoured thereto, 16. in the system conforms to paragraph 15 "lever presents a laterally open slot into which can be introduced 1'element junction, and which a clamping system consisting of a leaf spring and a clamping pieces is planned for the joining element. 17. In the system complies with paragraphs 5 and 15, the lever is fitted with a clamping system having a sleeve with a spring roll, a clamping pieces and a command button. / 18In a system conforming to paragraph 5, the tensioning device for fixing the cable, possesses a clamping eccentric or appendix has more windings. 19. In a system conforming to paragraph 6, a chamber receiving the clamping oiece in its open position is planned from the extremity of the bore inside shrunk, has the positive terieur the housing obliquely relative to the bore. / • '20. in a system conforming to paragraph 6, the pressure surface of the clamping pieces wife 1'element junction, or has a concave profile, so that the element junction in the locked state, can not escape laterally in the direction of the slot. z 21. A pierce ns a system conforming to paragraph 6, the slot is comic labyrinth, to prohibit 1'element a junction up slipping outwards. 22. In a system conforming to paragraph 6, the case is a sleeve of U cross–section, the open side may be mask by a cover. // 23. In a system complies with paragraphs 6 and 23 "cover slips into a sleeve wall, and a latch holding it in closed position. 24. In a system complies with paragraphs 6 and 22, the work– 5 slot obliquely pays the sleeve,

and the remaining 1 ss bore is closed. 25. In a system conforming to paragraph 6, there is a recovery ae mobile sleeve for covering the lateral slot. / 26. In a system conforming to paragraph 6, for fixing a connecting element stretched in both directions, the device 10 is a double or multiple clamping, or each of the two ends of a through room, springs are mounted, with the associated clamping pieces in the direction of opposite action. / 27. In a system conforms to 1'alinea 6, there is a stop appendix for fixing a mat or some other fixed point 15. / 28. In a system conforms to paragraph 7, an introduction slit and an exit slit open at an obtuse angle in the chamber of the tensioner. 29. In a system conforms to paragraph 7, a controller 20 is presented as a slide projecting over the length of the tensioner, with parts of lateral grip, and clamping parts are mobile montees on the slide, so that there is possibility of these parts rocking in a plane perpendicular to the surface of the belt. 25 30. In a system conforms to paragraph 7, the r clamping parts are dessinees flat profiles or in profile, an enlarged head is connected to a contact surface cannelee tour to the belt, and that, over and beyond a thinner tail ends with a positioning ball at the tip of the clamping pieces and gt; –. 31. Bans a consistent system to paragraph 7, the tensioner is double clasp with two clamping parts of games, springs, insertion slots and output, so that each of the pieces belt allows a shortening and a self–locking clamp, unless a set of clamp parts or agency a fixed hamjpe has a room of the belt, and the other to the other pieces of it. / 31. In a system complies with paragraphs 7 and 30, in each set of clamping pieces, the middle room is pear–shaped, and the parts, External is a flat profile. 33. In a. system complies with paragraphs 7 and 30, strips of thin sheet metal, cubits, hang on the tails of the clamping parts, and are connected to a mobile control slide on the upper side of the stretcher. 34. removable terminal Systeme several electrical conductors, according to the first paragraph, characterized by a certain number of sleeve–like parts placed at intervals from one another, each presenting an interior bore through and through, and two oblique bores opening adjacent one of the end openings of the inner bores, and a spring in each thereof; – By clamping parts fixed to each two ends de– 'springs, which press against the front openings; – Finally, a domino in synthetic material, or 5 boxes are the body or sleeve shaped parts. 35. In a system according to the first paragraph, the encounter bedrooms closing clamping parts and the ends of electrical conductors which are inserted therein, are mounted directly in the housing of an electrical device. / 10 36. In a removable connecting system of several con– electrical conductors, comply with the first paragraph, more conductive plate–shaped body, which have bores, rooms, springs and clamping parts are electrically separated the each other by plates in matters syn– 15 thetic and seizure dlun one piece by a common framework synthetic material; flat conductive bodies connecting bores Interior determined individual clamping parts, resulting in the block with each other. S 37.In a removable connecting system of several electrical conductors 20 ers, according to the first paragraph, the s BORE inte– laughing containing the springs range from a side wall of a block of conductive material, up to the side wall oppcsee. / 38. In a system complies with paragraphs 1 and 36, the conductor block e t and cylindrical, and obliques BORE 25 out of its sheath surfacede 39. • System conforms to paragraph 36, or, the plate–shaped body, slits run parallel to the bores inte– laughing, they intersect; a control rod springs and parts of serrere through the body from side to side through one set of internal bores, slide it. 40. In a system according to the first paragraph, is a control device is by; a source of a pressurizing agent, by means of which a pressure is created in the current boring or are the springs and alleviates the room clamping despite the spring thereof. '41. In a system conforms to 1'alinea 40, the room, the municipality bore interior and the oblique bore, which contains the clamping pieces, communicates on one side with an opening for people brought \ l admission of compression agent, and on the other side, ith an event for 1'evacuation has the same agent; a retreo. ng the venturi nozzle is placed in the current direction, in front of the chamber. 42. In a system 'in conformity to paragraph 39 for connecting cables or other extremities son multiple beams, the rooms are connected by channel way to make possible the simultaneous control of a large number of control rooms • / "43. in a system conforms to paragraph 39, the ends of the son are entered in sheets or in gutter spoon, which are introduced in the rooms, and maintained self–locking by the clamping pieces / electrical contact 44. System according to the first paragraph, or, for the ns. ength of the room and into the wall thereof, there is an "electrical conductive strip on which electrical connection has coupling. 45 ss ystem conform to paragraph 44 ", or in a clamping domino, there are two neighboring rows of rooms in the common coprs, and the rooms OPPOSING ccording respectively an acute angle open in the direction d1introduction while conductive strips have a general V–shape and connecting the s / s with a other rooms that. are; 6 In a system conforms to paragraph 44, the oblique bore relative to the axis of the chamber that receives the clamping room is an enclosed room to the outside, to receive 1'extremite introduced the driver. 47. In a system conforms to paragraph 44, a lip estampee in the conductive tape at the entrance to the next room, receives the extremity of the driver. 48. In this same system, the conductive strip is tiree in the wall of the room suivante.y 49. In this same system, the clamping coin depicts a cross bore has introduced 1'extremite driver, and a control element can will be introduced to unlock the extremity of the driver. 50. "In a system, –elon the paragraph. 49" control element is one that extends in 1'alesage the clamping pieces and is guided into the slots being managed according to the axis of the tale room.. – ing clamping pieces z 5'1 "in a system conforms to paragraph 45" all clamp bodies of each row, with their bores, are strung with a certain interval, each on a rod; the stem synthetic material present bulges for the maintenance intervals of the clamping parts, and is kept rotating in the clamping nephews. z 52. In a system conforms to paragraph 51, there is a slide sliding in each of the slots of the clamp body domino, which acts on the two rods supporting the clamping parts, will extend ever, with a certain interval between them in the longitudinal direction of domino connection, so that maneuvering in a first direction, the clamping parts therein tent rapporteurs, on the first side of the domino, are brought into play; in the other direction, it is the opposed clamping parts. 55. In a system conforms to paragraph 44, the conductive strip is housed in a groove in the wall of his room 54. yn system conforms to paragraph 44 "the conductive strip presents a recess directed in length the extremity of the driver, she receives. BUGNION – UBAF S. A. B. P. 4038 NLONGKAK– YAOUNDE / CAMEROON

0) GB2365915A – CABLE LOCK AND SEAL DEVICE

10) Family number: 14614996 (GB2365915A) © PatBase

Title: CABLE LOCK AND SEAL DEVICE

Priority: GB20000020131 20000817

Family:

Publication number	Publication date	Application number	Application date
GB200020131 A0	20001004	GB20000020131	20000817
GB200119683 A0	20011003	GB20010019683	20010813
GB2365915 A1	20020227	GB20010019683	20010813
GB2365915 B2	20040609	GB20010019683	20010813

Probable Assignee: BLOXWICH TRANSP ATION PRODUCTS

Assignee(s):(std)**:** BLOXWICH ENG ; BLOXWICH TRANSP ATION PRODUCTS

Assignee(s): BLOXWICH TRANSPORTATION PRODUCTS LIMITED ; BLOXWICH TRANSPORTATION PRODUCTS LTD ; BLOXWICH ENGINEERING LTD

Inventor(s):(std)**:** BROWN CLIVE ALBERT

Inventor(s): CLIVE ALBERT BROWN

International class (IPC 8–9)**:** F16G11/04 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7)**:** B65D33/34 F16G11/04 F16G11/14

CPC: F16G11/02 F16G11/108 F16G11/14 G09F3/0352

European class: F16G11/04 G09F3/03A6B

Classification Explorer

Cited documents: WO9318316 A1, US5222776 A, EP0861994 A2,

Forward Citations: WO06137722, FR2881560, EP1899234,

Abstract:
Source: GB2365915A A cable lock and seal device has a body 1 enclosing friction member 8 held by a spring 14 and having a through passage 21–22, and a flexible inextensible member 2 having one end 20 attached to the body, the opposite end 25 being adapted to pass through the passage and engage with the friction member 8 to prevent movement or withdrawal of the flexible member in the opposite direction. The body 1 comprises a cast or moulded casing 3 which is closed at one end and is open at the other end, and an end cover 7 adapted permanently to close the open end of the casing 3. One end of the flexible inextensible member 20 is attached to the casing 3 by being cast or moulded into the casing and is permanently connected thereto so that it projects from the closed end.

0) US3689974A – CABLE CLAMP AND APPARATUSES FOR ATTACHING AND F...

11) Family number: 1021370 (US3689974A) © PatBase

Title: CABLE CLAMP AND APPARATUSES FOR ATTACHING AND FOR DETACHING THE CLAMP

Priority: US19700086088 19701102

Family:

Publication number	Publication date	Application number	Application date
US3689974 A	19720912	US19700086088	19701102

Probable Assignee: PRELUDE CORP

Assignee(s):(std)**:** PRELUDE CORP

Inventor(s):(std)**:** GIFFORD HOWARD W ; WHIPPLE WILLIAM D

Inventor(s): WILLIAM D WHIPPLE ; HOWARD W GIFFORD

International class (IPC 8–9)**:** B63B21/08 F16G11/00 (Advanced/Invention); B63B21/00 F16G11/00 (Core/Invention)

International class (IPC 1–7)**:** A01K75/00 B23P19/04

CPC: B63B21/08 F16G11/00 Y10T29/53526 F16G11/101

European class: B63B21/08 F16G11/00

US class: 29/200D 29/819

Classification Explorer

Cited documents: US3368267 A, US3098289 A,

Forward Citations: US4126850,

Abstract:
Source: US3689974A A releasable and lockably closing cable clamp has two clamp elements movable relative to each other between a release position and a cable–clamping closed position, and has a latch member movable between an unlatch position where the clamp elements are free for said relative movement and a latch position where it locks the clamp elements in the closed position.

- **search:** SS8 FT=((cable or wire) and (lock* or seal* or grip*) and (rib* or groove*) and (roller or wheel) and (spring or bias) and ramp) and IC=F16G (Results 22)
- List: SS8 1–50 (FT=((cable or wire) and (lock* or seal* or grip*) and (rib* or groove*) and (roller or wheel) and (spring or bias) and ramp) and IC=F16G) (Results 22)

0) US2013200637A – TAMPER EVIDENT SECURITY SEAL

1) Family number: 54512551 (US2013200637A) © PatBase

Title: TAMPER EVIDENT SECURITY SEAL

Priority: US20120594418P 20120203 US20130755017 20130131 WO2013US23990 20130131

Family:

Publication number	Publication date	Application number	Application date
AR089866 AA	20140924	AR2013P100300	20130201
CN104508323 A	20150408	CN201380018858	20130131
CN104508323 B	20170308	CN201380018858	20130131
GB201413669 A0	20140917	GB20140013669	20130131
GB2514279 A1	20141119	GB20140013669	20130131
MX2014009266 A1	20140922	MX20140009266	20130131
TW201345800 A	20131116	TW20130104088	20130201
TWI496724 B	20150821	TW20130104088	20130201
US2013200637 AA	20130808	US20130755017	20130131
US9558682 BB	20170131	US20130755017	20130131
WO13116429 A1	20130808	WO2013US23990	20130131

Probable Assignee: BROOKS CO E J

Assignee(s):(std)**:** BAKER MICHAEL ; BROOKS CO E J ; DEBRODY ROBERT ; E J BROOKS CO D B A TYDENBROOKS SECURITY PRODUCTS GROUP ; PINHO CARLOS ; DREISBACH RICHARD

Assignee(s): EJBROOKS CO ; E J BROOKS CO ; EJ BROOKS CO ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS

Inventor(s):(std)**:** PINHO CARLOS ; DREISBACH RICHARD ; DEBRODY ROBERT ; BAKER MICHAEL

Inventor(s): CARLOS PINHO ; MICHAEL BAKER ; RICHARD DREISBACH ; ROBERT DEBRODY

Agent(s): GARDNER LINN BURKHART AND FLORY LLP; LILLIE RAYMOND J 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 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

International class (IPC 8–9): B65D27/30 B65D33/34 B65D50/04 B65D55/06 F16G11/10 F16G11/14 G09F3/03 (Advanced/Invention)

CPC: G09F3/0352 F16G11/106 F16G11/108 F16G11/14 Y10T292/502

US class: 292/323

Classification Explorer

Cited documents: WOUS23990, WO9318316 A1, WO13116429 A1, USD568716 S1, USD564338 S1, USD563765 S1, USD557105 S1, USD553575 S1, USD548041 S1, USD537317 S1, USD498131 S1, US918570 A, US875121 A, US830565 A, US7641062 BB, US7478847 BB, US7472933 BB, US7278665 BB, US7073828 BB, US7073358 BA, US700412 A, US6719335 BB, US6581292 BB, US6578886 BA, US6550830 BB, US6540273 BB, US6494508 BA, US6457754 BA, US6345847 BA, US6199413 BA, US6155617 A, US6131969 A, US6089056 A, US5820176 A, US5743574 A, US5647620 A, US5611583 A, US5582447 A, US5538300 A, US5359870 A, US5352003 A, US5306054 A, US5222776 A, US5170537 A, US5147145 A, US5127687 A, US5092641 A, US4893853 A, US4883295 A, US4793644 A, US4775175 A, US4747631 A, US4681356 A, US4640538 A, US4500124 A, US4416478 A, US4358944 A, US4342477 A, US4280726 A, US4216568 A, US4141117 A, US4074916 A, US4057982 A, US4049303 A, US3994521 A, US3984081 A, US3770307 A, US3591223 A, US2988391 A, US2938755 A, US2599700 A, US2412097 A, US23894 A, US2349114 A, US2346477 A, US2148590 A, US2072269 A, US2062628 A, US2033227 A, US2013200637 AA, US2011012377 AA, US2006117816 AA, US1832388 A, US1829760 A, US1606873 A, US1577678 A,

US1518523 A, US1490451 A, US1471034 A, US1271912 A, US1139595 A, US1136595 A, EP1967759 A1, DE20314436 U1, DE20314436 U, CN2683934 Y, CN2426035 Y,

Forward Citations: US9558682, US9453555, US2015285337,

Abstract:
Source: US2013200637A A seal housing body, extruded AL or molded plastic or metal, has cavity portions communicating through an interface region formed by one at least one frangible projection protruding from the first body into the cavity, a first cavity portion for receiving a locking body, the second cavity portion forming a shackle receiving passageway. The locking body has a channel inclined relative to and in communication with the passageway. A spring in the channel urges a shackle locking ball up the channel partially into the interface region, the ball, having a diameter sufficient to pass through the passageway, is captured in the channel by the at least one projection. The locking body has indicia and/or flanges, at one or both opposing ends, to provide tampering evidence. The channel is offset from the locking body's central plane forming a single channel side wall to preclude trapping the ball by tampering.

0) US2010051887A – WIRE STRAINER

2) Family number: 44453093 (US2010051887A) © PatBase

Title: WIRE STRAINER

Priority: AU20090206158 20090805 AU20150264905 20151204 NZ20080570800 20080827 NZ20090583432 20090729 AU20160244184 20161011

Family:

Publication number	Publication date	Application number	Application date
AU2009206158 AA	20100318	AU20090206158	20090805
AU2009206158 BB	20161110	AU20090206158	20090805
AU2015264905 AA	20151224	AU20150264905	20151204
AU2015264905 BB	20160512	AU20150264905	20151204
AU2016244184 AA	20161027	AU20160244184	20161011
NZ570800 A	20100528	NZ20080570800	20080827
US2010051887 AA	20100304	US20090546058	20090824

Probable Assignee: ROBERTSON ENGINEERING LTD

Assignee(s):(std)**:** ROBERTSON ENG LTD

Assignee(s): ROBERTSON ENGINEERING LIMITED ; ROBERTSON ENGINEERING LTD

Inventor(s):(std)**:** COLLINS BRIAN EDWARD ; WOOSTER MAURICE WILLIAM

Inventor(s): MAURICE WILLIAM WOOSTER ; BRIAN EDWARD COLLINS

Agent(s): PIPERS PATENT ATTORNEYS; PIPERS; YOUNG AND THOMPSON

International class (IPC 8–9): B21F9/00 B21F9/02 B25B25/00 E04H17/00 E04H17/02 F16G11/12 (Advanced/Invention); B21F9/00 B25B25/00 E04H17/02 F16G11/00 (Core/Invention)

CPC: B21F9/00 B25B25/00 F16G11/12

European class: B21F9/00 B25B25/00 F16G11/12

US class: 242/396.4 242/396.400S 254/217 254/217P

Classification Explorer

Cited documents: WO9710064 A1, US6820862 BB, US6578823 BA, US6073917 A, US604302 A, US5890674 A, US4819912 A, US4071205 A, US3753551 A, US339319 A, US3391443 A, US2620996 A, US2497220 A, US1822422 A, GB603523 A, FR2474628 A2, FR2470902 A1,

Forward Citations: WO17018891, USD744320, US9820446, US9532511, US9284746, US9187298, US8776647, US8590863, US8413555, US2017118924, US2015144855, US2013161440, CN103128699, CN102198650,

Abstract:
Source: US2010051887A A wire strainer has a ratcheted spool rotatably attached to a frame to rotate in a desired direction when tensioning and able to freewheel otherwise. At least one oval/elliptical hole in the shaft accommodates one, two or more wires therein in a particular orientation on the shaft. The oval/elliptical hole is adapted to be dimensioned and positioned on the shaft such that the integrity and strength of the shaft is not compromised or lessened. A projection and a two plane guide means can be situated on the spool whereby the projection is positioned and engages with a portion of a wire and the two plane guide is positioned and assists in deflecting the length of wire not engaged with the projection away from the projection as the spool is rotated during the straining of a wire. Y−shaped reinforcing ribs on the frame provide strengthening and rigidity while tensioning.

0) US2009277169A – OVERHEATING PROTECTION FOR SHAPE MEMORY ALLOY A...

3) Family number: 43959958 (US2009277169A) © PatBase

Title: OVERHEATING PROTECTION FOR SHAPE MEMORY ALLOY ACTUATORS

Priority:

US20080051351P 20080508 US20080250148 20081013 US20090437768 20090508
US20090437867 20090508 US20090437722 20090508 US20100792120 20100602
WO2009US43253 20090508 US20100971336 20101217 WO2009US43266 20090508
US20110046748 20110313 US20110162470 20110616 US20120443989 20120411
US20120452597 20120420 US20130834709 20130315 WO2009US43294 20090508

Family:

Publication number	Publication date	Application number	Application date
CN102016306 A	20110413	CN200980116462	20090508
CN102016306 B	20130724	CN200980116462	20090508
CN102016307 A	20110413	CN200980116469	20090508
CN102016307 B	20141029	CN200980116469	20090508
CN102016308 A	20110413	CN200980116470	20090508
CN102016308 B	20130911	CN200980116470	20090508
CN102269142 A	20111207	CN201110147334	20110602
CN102269142 B	20140326	CN201110147334	20110602
CN102661260 A	20120912	CN201110463342	20111216
CN102661260 B	20141126	CN201110463342	20111216
CN102678494 A	20120919	CN201210064635	20120313
CN102678494 B	20141029	CN201210064635	20120313
CN102852750 A	20130102	CN201210347578	20120616
CN102852750 B	20160427	CN201210347578	20120616
CN103375375 A	20131030	CN201310124439	20130411
CN103375375 B	20160601	CN201310124439	20130411
CN103375376 A	20131030	CN201310137432	20130419
CN103375376 B	20160224	CN201310137432	20130419
DE102011102597 A1	20120426	DE201110102597	20110527
DE102011120963 A1	20120621	DE201110120963	20111213
DE102011120963 B4	20130718	DE201110120963	20111213
DE102012203498 A1	20120920	DE201210203498	20120306
DE102012209765 A1	20121220	DE201210209765	20120612
DE102013206132 A1	20131017	DE201310206132	20130408
DE102013206916 A1	20131024	DE201310206916	20130417
DE112009001069 B4	20170126	DE200911001069T	20090508
DE112009001069 T5	20120112	DE200911001069T	20090508
DE112009001088 B4	20170119	DE200911001088T	20090508
DE112009001088 T5	20110303	DE200911001088T	20090508
DE112009001105 T5	20110421	DE200911001105T	20090508
US2009277169 AA	20091112	US20090437867	20090508
US2009277170 AA	20091112	US20090437768	20090508
US2010117663 AA	20100513	US20090437722	20090508
US2010236236 AA	20100923	US20100792120	20100602
US2011083431 AA	20110414	US20100971336	20101217
US2011163769 AA	20110707	US20110046748	20110313
US2011296826 AA	20111208	US20110162470	20110616
US2012198835 AA	20120809	US20120443989	20120411
US2012223727 AA	20120906	US20120452597	20120420

US2013199172 AA	20130808	US20130834709	20130315	
US8109087 BB	20120207	US20090437867	20090508	
US8188757 BB	20120529	US20090437722	20090508	
US8281585 BB	20121009	US20090437768	20090508	
US8390305 BB	20130305	US20110046748	20110313	
US8567188 BB	20131029	US20100792120	20100602	
US8640455 BB	20140204	US20110162470	20110616	
US8739525 BB	20140603	US20100971336	20101217	
US8810234 BB	20140819	US20120452597	20120420	
US9022682 BB	20150505	US20120443989	20120411	
US9353734 BB	20160531	US20130834709	20130315	
WO09137750 A2	20091112	WO2009US43253	20090508	
WO09137750 A3	20100225	WO2009US43253	20090508	
WO09137757 A2	20091112	WO2009US43266	20090508	
WO09137757 A3	20100401	WO2009US43266	20090508	
WO09137767 A2	20091112	WO2009US43294	20090508	
WO09137767 A3	20100304	WO2009US43294	20090508	

Probable Assignee: GM GLOBAL TECH OPERATIONS INC

Assignee(s):(std)**:** ALEXANDER PAUL W ; BROWNE ALAN L ; GAO XIUJIE ; GM GLOBAL TECH OPERATIONS INC ; GM GLOBAL TECH OPERATIONS LLC N D GES D STAATES DELAWARE ; JOHNSON NANCY L ; HERRERA GUILLERMO A ; HENRY CHRISTOPHER P ; KEEFE ANDREW C ; MC KNIGHT GEOFFREY P ; SMITH SLOAN ; MCKNIGHT GEOFFREY P ; SKURKIS RICHARD J ; USORO PATRICK B ; MANKAME NILESH D ; PINTO IV NICHOLAS W ; STROM KENNETH A ; PINTO NICHOLAS WILLIAM ; SAROSI PETER MAXWELL ; STEVENSON ROBIN ; LAWALL JENNIFER P ; HAO LEI

Assignee(s): GM GLOBAL TECHNOLOGY OPERATIONS LLC NDGESD STAATES DELAWARE ; UAW RETIREE MEDICAL BENEFITS TRUST ; UNITED STATES DEPARTMENT OF TREASURY ; WILMINGTON TRUST CO ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GES D STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ND GES DSTAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS LLC N D GESETZEN DES STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATIONS LLC ND GES D STAATES DELAWARE ; GM GLOBAL TECHNOLOGY OPERATION US CORP ; GM GLOBAL TECHNOLOGY OPERATIONS INC ; GM GLOBAL TECHNOLOGY OPERATIONS LLC

Inventor(s):(std)**:** ALAN L BROWNE ; ALEXANDER PAUL W ; BROWNE ALAN L ; GAO XIUJIE ; HAO LEI ; HENRY CHRISTOPHER P ; HERRERA GUILLERMO A ; JOHNSON NANCY L ; KEEFE ANDREW C ; LAWALL JENNIFER P ; MANKAME NILESH ; MANKAME NILESH D ; MC KNIGHT GEOFFREY P ; MCKNIGHT GEOFFREY P ; NANCY L JOHNSON ; NICHOLAS W PINTO IV ; NILESH D MANKAME ; NILESH MANKAME ; PATRICK B USORO ; PAUL W ALEXANDER ; PINTO IV NICHOLAS W ; PINTO NICHOLAS W ; PINTO NICHOLAS WILLIAM ; SKURKIS RICHARD J ; SMITH SLOAN ; SPENNY JASON R ; STROM KENNETH A ; USORO PATRICK B ; WILLIAM PINTO NICHOLAS ; XIUJIE GAO ; STEVENSON ROBIN ; SAROSI PETER MAXWELL ; BROWNE ALAN ; SLOAN SMITH

Agent(s): SLJ LLC; MICKKI D; PARKS IP LAW LLC; REISING ETHINGTON PC; CICHOSZ VINCENT 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 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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8–9): B23P11/00 B23Q1/34 F01B29/10 F02G1/04 F03G1/00 F03G7/06 F16C9/00 F16G11/02 F16K31/00 F16K31/02 F25B49/00 G01B7/00 G01J1/44 G01N27/92 G01R27/08 G01R27/26 G05D23/02 G06F17/00 G06Q10/04 G12B1/02 H01R4/01 H01R9/00 H02N99/00 H02P31/00 (Advanced/Invention); F02G1/00 F03G1/00 F03G7/06 F16K31/00 F16K31/02 G01R27/26 G05D23/01 (Core/Invention)

CPC:

B23P11/005 H01R4/01 H01R4/023 H01R4/029 H01R4/187 H01R2004/181 F03G7/06 G12B1/02 Y10T29/49826 Y10T307/766 F03G7/065 F28F2013/008 Y10T403/21 Y10T403/217 F16G11/02 Y10T29/49908

European class: F03G7/06B F16G11/02

US class: 1/1 250/206 250/206S 29/428 29/428S 29/505 307/116 307/116S 318/135 318/135S 324/679 324/679P 324/691 324/691P 324/71.1 324/71.3 324/76.11 403/28 403/30 60/527 60/527P 60/528 60/528P 60/529

Classification Explorer

Cited documents: WO09137757 A2, WO09137750 A2, WO07083064 A2, WO05075823 A1, USRE31472 E, US8281585 BB, US7989703 BB, US7972718 BB, US7967339 BB, US7853331 BB, US7793497 BB, US7775042 BA, US7765689 BB, US7722668 BB, US7685859 BB, US7650914 BB, US7600301 BB, US7491101 BB, US7256518 BB, US7189158 BB, US7188473 BA, US6997746 BB, US6981374 BB, US6848524 BB, US6732516 BB, US6655218 BA, US6648279 BA, US6641593 BA, US6574958 BA, US6546806 BA, US6543224 BA, US6401309 BA, US6213060 BA, US6128188 A, US6086433 A, US6016096 A, US5996346 A, US5875096 A, US5727391 A, US5622482 A, US5410290 A, US4991602 A, US4930494 A, US4884557 A, US4860040 A, US4691518 A, US4691517 A, US4559512 A, US4553393 A, US4544988 A, US4490975 A, US4450686 A, US4325217 A, US4294006 A, US4290393 A, US3942486 A, US3913326 A, US3771111 A, US3725835 A, US3703693 A, US3366865 A, US3339077 A, US3152554 A, US3064477 A, US3048908 A, US2998725 A, US2810290 A, US2747171 A, US2012324727 AA, US2012094143 AA, US2011277462 AA, US2011168725 AA, US2011136397 AA, US2011128434 AA, US2011004298 AA, US2010293940 AA, US2010267205 AA, US2010236236 AA, US2010152769 AA, US2010092238 AA, US2010089468 AA, US2010066785 AA, US2010018686 AA, US2009326637 AA, US2009321044 AA, US2009301408 AA, US2009272935 AA, US2009250952 AA, US2009043288 AA, US2009007561 AA, US2008247748 AA, US2008202637 AA, US2008187803 AA, US2008141736 AA, US2008133090 AA, US2008099193 AA, US2007216194 AA, US2007175213 AA, US2007169928 AA, US2007163769 A9, US2007044952 AA, US2006247619 AA, US2006247618 AA, US2006201609 AA, US2006095178 AA, US2006054309 AA, US2005269726 AA, US2005200067 AA, US2005172462 AA, US2005146408 AA, US2005116336 AA, US2005065601 AA, US2004261411 AA, US2003199974 AA, US2003195432 AA, US2003058619 AA, US2002113499 AA, US2002018337 AA, JPS60228778, JPS5844755, JP988804, JP62019073 B4, JP61046478 A2, JP60252172 A2, JP60228778 A2, JP60036786 A2, JP58044755 A2, JP5248341 A2, JP3012998 A2, JP2009008024 A2, JP2008014268 A2, JP2006334847 A2, JP2006329146 A2, JP2005155427 A2, JP2004245155 A2, JP2002149865 A2, JP2001173550 A2, JP1163478 A2, GB2072756 A1, EP1438503 B1, EP0137502 A2,

DE602004005578 T2

DE10108468 A1, CN2410440, CN1804392 A, CN1685150, CN1369038, CN1298995 C, CN1103134 A, CN102325096 A, CN102264939, CN102067049 A, CN101809263 A, CN101688407 A, CN101437705 A, CN101287640 A,

Forward Citations: WO17120080, WO17050332, WO17050331, WO16196279, WO16168295, WO16156074, WO16109137, WO14080344, WO12076247, US9829304, US9775252, US9773627, US9764706, US9727254, US9689380, US9664182, US9588020, US9581147, US9316212, US9314885, US9267493, US9127483, US9091252, US9090334, US9067526, US9052243, US9016057, US8966893, US8804294, US8797703, US8789366, US8764286, US8733097, US8703268, US8687340, US8661810, US8640455, US8567188, US8534064, US8511082, US8495761, US8299637, US7839260, US2017229990, US2017139612, US2016347252, US2016264086, US2015323424, US2015136910, US2015083868, US2014346980, US2014298794, US2014225708, US2014096516, US2014026554, US2013305705, US2013298548, US2013240320, US2013239565, US2013227943, US2013064627, US2013055708, US2012234000, US2012113558, US2011321203, US2011296826, US2011234362, US2011232562, US2011140456, US2011139396, US2011139395, US2011114791, US2010236236, US2009108779, TWI579740, DE102016217985, DE102016217624, DE102014111460, CN104847611, CN104075650, CN103375376, CN102778075, CN102778075, CN102678496, CN102678495, CN102678495, CN102678494, CN102678494, CN102298244, CN102269142,

Abstract:
Source: US2009277169A An overheating protection system adapted for use with a shape memory alloy actuator element, includes at least one switching shape memory alloy element presenting a slower activation period than that of the actuator element, and configured to selectively prevent activation of the actuator element, when the actuator element is actually or predicted to be experiencing overheating; and a circuit comprising the system, wherein the switching element and/or a circuit implement functions to modify activation of the actuator element.

0) US2016356292A – CABLE LOCK AND SEAL DEVICE

4) Family number: 60056352 (US2016356292A) © PatBase

Title: CABLE LOCK AND SEAL DEVICE

Priority: MY20140700257 20140207 WO2015MY00008 20150205

Family:

Publication number	Publication date	Application number	Application date
CL2016001992 A1	20170417	CL20160001992	20160808
CN106133391 A	20161116	CN201580017547	20150205
CO20160001162 A2	20170209	CO20160001162	20160825
CR20160390 A	20170119	CR20160000390	20150205
EP3102848 A1	20161214	EP20150745948	20150205
EP3102848 A4	20171004	EP20150745948	20150205
MX2016010298 A1	20170206	MX20160010298	20150205
PE14612016 A1	20170127	PE20160001439	20150205
US2016356292 AA	20161208	US20150117193	20150205
WO15119494 A1	20150813	WO2015MY00008	20150205

Probable Assignee: MEGA FORTRIS MALAYSIA SDN BHD

Assignee(s):(std)**:** MEGA FORTRIS MALAYSIA SDN BHD

Inventor(s):(std)**:** CHUA YUEN KAM ; YUEN KAM CHUA

Agent(s): ESTUDIO CLARKE MODET AND CO CHILE LIMITADA; CAROLINA MERCEDES DAZA MONTALVO; SCHNEIDER MICHAEL; CHEW KHERK YING 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

International class (IPC 8–9): F16B2/08 F16B2/12 F16G11/04 F16G11/10 F16G11/14 G09F3/03 (Advanced/Invention)

CPC: F16G11/106 F16B2/12 F16B2/08 G09F3/0352 F16G11/14 G09F3/0323

US class: 24/136R

Classification Explorer

Cited documents: WO0138756 A1, US8578566 BB, US8001660 BB, US6719335 BB, US6578886 BA, US6550830 BB, US6345847 BA, US5820176 A, US5647620 A, US5611583 A, US5538300 A, US5352003 A, US4640538 A, US4074916 A, US2011041292 AA, US2006196016 AA, EP1172781 A1, EP0630450 B1, CN102089549 A,

Abstract:
Source: US2016356292A A cable lock and seal device comprising a body and a cover with which complementarily forms a block enclosing there within a passage and a chamber. The body is integral with a base in which one end of a cable may be secured. The other free end of the cable may be inserted into the passage which is preferably curved and traverses the assembled body–and–cover block. The chamber is adapted with a ramp rising towards the passage, a slot for retaining a spring which second end is disposed to urge a locking wheel up the ramp against said passage. The urging of the locking wheel by the biasing means up the ramp is restrained when the locking wheel's axle engages a rib on the chamber wall to limit the wheel's further entry into the passage upon sufficiently engaging said cable and preventing its withdrawal by reversing its insertion.

0) US2017139070A – BACK DECK AUTOMATION

5) Family number: 65692036 (US2017139070A) © PatBase

Title: BACK DECK AUTOMATION

Priority: US20150256464P 20151117 US20160353439 20161116

Family:

Publication number	Publication date	Application number	Application date
US2017139070 AA	20170518	US20160353439	20161116
WO17087527 A1	20170526	WO2016US62287	20161116

Probable Assignee: FAIRFIELD IND INC

Assignee(s):(std)**:** FAIRFIELD IND INC

Inventor(s):(std)**:** CAMPBELL RICHARD ; MARC ETIENNE ; WORTHAN CHRISTOPHER

Agent(s): DE VELLIS JAMES 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 KM KN KP KR KW 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 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

International class (IPC 8–9): B63B21/66 B63B35/04 F16G11/02 G01V1/20 G01V1/38 (Advanced/Invention)

CPC: G01V1/3843 G01V1/202 B63B21/66 F16G11/025 G01V1/3852

Classification Explorer

Cited documents: US6024344 A, US2013263410 AA, US2010239367 AA, US2010054860 AA,

Abstract:
Source: US2017139070A Systems and methods of deploying seismic data acquisition units from a marine vessel are disclosed. The system can include a spindle coupled to a tether. A robotic arm can couple the spindle to a tether via one or more tumblers. The tether can connect to a seismic data acquisition unit via a connection block having a mechanical force device. The assembled spindle, tether and seismic data acquisition unit can be deployed from the deck via a deployment block.

0) US5538300A – CABLE LOCK AND SEAL DEVICE

6) Family number: 8393308 (US5538300A) © PatBase

Title: CABLE LOCK AND SEAL DEVICE

Priority: GB19920005565 19920313 GB19920014385 19920707 WO1993GB00515 19930311

Family:

Publication number	Publication date	Application number	Application date
AU199336456 A1	19931005	AU19930036456	19930311
DE69302901 D1	19960704	DE19936002901	19930311
EP0630450 A1	19941228	EP19930905569	19930311
EP0630450 B1	19960529	EP19930905569	19930311
GB9205565 A0	19920429	GB19920005565	19920313
GB9214385 A0	19920819	GB19920014385	19920707
US5538300 A	19960723	US19940302860	19941219
WO9318316 A1	19930916	WO1993GB00515	19930311

Probable Assignee: MEGA FORTRIS UK LTD

Assignee(s):(std)**:** BLAIR SECURITY PROD ; BLAIR SECURITY PRODUCTS LIMITE ; BLAIR SECURITY PRODUCTS LTD

Assignee(s): BLOXWICH ENGINEERING LTD ; BLOXWICH SECURITY PRODUCTS LTD ; MEGA FORTRIS LTD ; MEGA FORTRIS (UK) LTD ; BLAIR SECURITY PRODUCTS LTD WALSALL WEST MIDLANDS GB ; MEGA FORTRIS UK LTD ; BLAIR SECURITY PRODUCTS LIMITED

Inventor(s):(std)**:** BROWN CLIVE A ; BROWN CLIVE ALBERT

Inventor(s): BROWN CLIVE ALBERT WEST HEATH BIRMINGHAM B31 3NU G ; BROWN CLIVE ALBERT WEST HEATH BIRMINGHAM B31 3NU GB ; CLIVE ALBERT BROWN

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR LK LU MC MG ML MN MR MW NL NO NZ PL PT RO RU SD SE SN TD TG US

International class (IPC 8–9): F16G11/04 F16G11/10 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7): F16G11/04 G09F3/03

CPC: Y10T24/3976 G09F3/0352 Y10T292/48 Y10T292/502 F16G11/02 F16G11/106 F16G11/14

European class: F16G11/04 F16G11/10 G09F3/03A6B

US class: 24/136A 292/307.00R 292/307R 292/323

Classification Explorer

Cited documents: US5352003 A, US5222776 A, US4878269 A, US4747631 A, US4707891 A, US4640538 A, US3239255 A, US2606350 A, US2401418 A, US1628744 A, US1218752 A, FR2388114 A1,

Forward Citations: WO9838088, WO15119494, WO13116429, WO10089708, WO0138756, USD553575, USD525110, USD525109, USD521356, USD514425, US9803399, US9558682, US8578566, US8156771, US8065843, US8001660, US6457754, US6131969, US5820176, US5611583, US2016356292, US2013200637, US2011041292, US2011012377, US2010229350, US2009106947, US2009071211, US2008196326, US2007262593, US2005193783, US2004195556, ITPN20090011, GB2514279, GB2365915, GB2365915, GB2326620, FR2853381, EP3102848, EP0861994, EP0774598, EA2373, EA002373, CN106133391, CN104508323, CN104508323,

Abstract:
Source: US5538300A PCT No. PCT/GB93/00515 Sec. 371 Date Dec. 19, 1994 Sec. 102(e) Date Dec. 19, 1994 PCT Filed Mar. 11, 1993 PCT Pub. No. WO93/18316 PCT Pub. Date Sep. 16, 1993In a cable lock and seal device a roller is rotatable about a single axis normal to the axis of an inextensible member and with respect to a ramp which, in turn, is inclined with respect to the axis of the inextensible member. The roller is moveable up and

down the ramp between a retracted position in which the member can be drawn through a passage in which the device and a locking position in which the roller rolls up the ramp to clamp the member against movement in the opposite direction with the member trapped between the roller and the opposite face of the passage. A spring acts on the roller to urge it up the ramp at all times.

0) US2015329075A – QUICK–RELEASE FASTENER FOR ONE END OF A SEAT BE...

7) Family number: 56716302 (US2015329075A) © PatBase

Title: QUICK–RELEASE FASTENER FOR ONE END OF A SEAT BELT FASTENED TO A VEHICLE IN A MOTOR VEHICLE

Priority: DE201210223453 20121217 WO2013EP76374 20131212

Family:

Publication number	Publication date	Application number	Application date
CN104884312 A	20150902	CN201380062931	20131212
DE102012223453 A1	20140618	DE201210223453	20121217
US2015329075 AA	20151119	US20130652597	20131212
US9517748 BB	20161213	US20130652597	20131212
WO14095562 A1	20140626	WO2013EP76374	20131212

Probable Assignee: AUTOLIV DEV

Assignee(s):(std)**:** AUTOLIV DEV

Assignee(s): AUTOLIV DEVELOPMENT AB

Inventor(s):(std)**:** EHLERS JENS ; KOESTER HELGE ; SOEHNCHEN ARNDT ; KOSTER HELGE ; SOHNCHEN ARNDT

Agent(s): BRINKS GILSON AND LIONE; KOCH HENNING

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 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

International class (IPC 8–9): A44B11/25 B60R22/18 B60R22/22 B60R22/24 B60R22/26 B60R22/30 F16G11/02 (Advanced/Invention); B60R22/195 (Advanced/Non–invention)

CPC: A44B11/2534 A44B11/2576 B60R2022/1806 Y10T24/4764 B60R22/18 B60R22/1952 F16G11/02 Y10T24/4501

US class: 24/573.11

Classification Explorer

Cited documents: US5724716 A, US4731912 A, US4674303 A, US4575916 A, US4520538 A, US4471513 A, US4402114 A, US4373830 A, US4228567 A, US3555632 A, US2003071453 AA, DE10245818 A1,

DE102010025714 A1

Abstract:
Source: US2015329075A A quick–release fastener for a vehicle seat belt (21) with a fitting part (1), and a fastening part (7). The fitting part (1) has a first opening (2), and a second opening (3), in which the fastening part (7) can be locked to a locking head (6). The fastening part (7) can be inserted into the opening (3) in which a spring element (14) is arranged in an assembly position (I), and the spring element (14) can be moved into the locked position (II). A housing (100) is adapted to the shape of the fitting part (1) with the locking head (6) retained therein. The mounting (112) is shaped n such that the fitting part (I) with the locking head (6) can be completely received in the mounting (112) only when the locking head (6) is in the locked position (II).

0) US4294429A – PULLEY ASSEMBLY FOR IMPROVING THE COOPERATION B...

8) Family number: 1361224 (US4294429A) © PatBase

Title: Pulley assembly for improving the cooperation between a winch and a cable actuated thereby

Priority:

AU19790049814 19790810	AU19790049842 19790813	FR19790014188 19790601
FR19780024359 19780822	CA19790334222 19790821	CA19790335355 19790910
GB19790028998 19790821	GB19790029136 19790821	JP19790104713U 19790729

Family:

Publication number	Publication date	Application number	Application date
AU197949814 A1	19800228	AU19790049814	19790810
AU197949842 A1	19810219	AU19790049842	19790813
AU4981479 A1	19800228	AU19790049814D	19790810
AU530631 B2	19830721	AU19790049814	19790810
BE878222 A	19791203	BE19790196715	19790813
BE878222 A1	19791203	BE19790196715	19790813
BR7905317 A	19800520	BR19790005317	19790817
CA1105920 A1	19810728	CA19790334222	19790821
CA1121794 A1	19820413	CA19790335355	19790910
CH630875 A	19820715	CH19790007329	19790810
CS216679 B2	19821126	CS19790005487	19790810
DE2931958 A1	19800306	DE19792931958	19790807
DE2931958 C2	19830127	DE19792931958	19790807
DE2937293 A1	19801218	DE19792937293	19790914
DE2937293 C2	19841108	DE19792937293	19790914
ES483462 A1	19800416	ES19790483462	19790817
FR2434111 A1	19800321	FR19780024359	19780822
FR2434111 B1	19820312	FR19780024359	19780822
FR2457834 A1	19801226	FR19790014188	19790601
FR2457834 B1	19830107	FR19790014188	19790601
GB2031364 A1	19800423	GB19790029136	19790821
GB2031364 B2	19830202	GB19790029136	19790821
GB2060107 A1	19810429	GB19790028998	19790821
GB2110632 A1	19830622	GB19820012413	19820429
GB2110632 B2	19840606	GB19820012413	19820429
IN152865 A	19840421	IN1979DE00570	19790807
IT1123525 A	19860430	IT19790025146	19790816
IT7925146 A0	19790816	IT19790025146	19790816
JP1058377 B4	19891211	JP19790104486	19790816
JP1457394 C3	19880909	JP19790115075	19790907
JP1577315 C3	19900824	JP19790104486	19790816
JP55060741 A2	19800508	JP19790104486	19790816
JP55161790 A2	19801216	JP19790115075	19790907
JP56021618 U1	19810226	JP19790104713U	19790729
JP62054756 B4	19871117	JP19790115075	19790907
MX148642 A	19830520	MX19790178928	19790815
SE421608 B	19820118	SE19790006919	19790820
SE421608 C	19820429	SE19790006919	19790820
SE7906919 A	19800223	SE19790006919D	19790820
US4294429 A	19811013	US19790066276	19790813

US4309139 A	19820105	US19800127977	19800306	
US4316602 A	19820223	US19790068812	19790822	

Probable Assignee: TRACTEL SA

Assignee(s):(std)**:** KISHU NEJI CO LTD ; TRACTE S A ; KISHI NEJI CO LTD ; TRACTEL SA

Assignee(s): TRACTEL S A BAGNOLET FR ; KISHU NEJI CO ; TRACTE SA ; TRACTEL S A ; TRACTEL S A 93170 BAGNOLET FR ; DESPLATS ANDRE

Inventor(s):(std)**:** ANDORE DESUPURA ; ANDRE DESPLATS ; DESPLATS A ; DESPLATS ANDRE ; NAKAE ISOJI

Inventor(s): A DESPLATS ; DESPLATS ANDRE BOULOGNE BILLANCOURT FR ; DESPLATS ANDRE FR ; ISOJI NAKAE

Agent(s): ROBIC ROBIC AND ASSOCIES ASSOCIATES

International class(IPC 8–9)**:** B66B11/08 B66D1/58 B66D1/74 B66D3/04 F16B39/28 F16B39/282 F16G11/14 (Advanced/Invention); B66D1/00 B66D1/54 F16B39/00 F16G11/00 (Core/Invention)

International class(IPC 1–7)**:** B23B3/00 B66B11/08 B66D1/00 B66D1/26 B66D1/28 B66D1/34 B66D1/48 B66D1/58 B66D1/74 B66D3/04 B66D3/06 B66D3/18 F16G11/12 F16G11/14 F16H55/50

CPC: B66D1/7415 B66D1/58 F16B39/282

European class: B66D1/58 B66D1/74D F16B39/282

US class: 104/173.1 104/230 254/270 254/272 254/287 254/333 411/187

Classification Explorer

Cited documents: US4220188 A, US4139178 A, US3949969 A, US3944185 A, US3666239 A, US3608389 A, US3405651 A, US3118635 A, US3078899 A, US2917278 A, US268068 A, US2662732 A, US2555501 A, US2147211 A, US1612955 A, US1355373 A, JP52114164 U1, JP52023473 U1, JP50130021 U1, JP40002500 A2, GB799014 A, GB524115 A, GB1379683 A, FR2307761 A1, FR2233269 A1, FR2036970 A1, FR1389136 A, FR1216411 A, DE627178 A, DE366667 A, DE2522033 A1, DE2307370 A1, CH546703 A, CH494704 A, CH119296 A, BE827486 A,

Forward Citations: WO13004663, US9790064, US9422140, US9198691, US8480714, US8382806, US8317160, US8147522, US8142481, US8097025, US8092504, US8066745, US8029539, US8016866, US8012185, US7717943, US7686835, US7662172, US7604655, US6102951, US6098962, US5887915, US5664796, US5474555, US5259269, US5205219, US5129626, US5071300, US4821842, US4811669, US4710081, US4557465, US2010204738, US2010179603, US2010152788, US2010063553, US2009163961, US2009095574, US2008312655, US2008071277, US2007123867, US2007043357, US2004240960, US2004149973, KR101226015, JP2005172237, GB2178716, FR2647427, FR2632374, FR2618421, EP0699620, EP0401099, EP0363800, EP0300892, EP0205004, EP0198409, DE19722867, CN103648960,

Abstract:
Source: US4294429A In this cable hoisting apparatus at least two pulleys disposed in a common plane have in the one a semi−circular−sectioned groove and in the other a V−shaped groove section, the first pulley receiving the load and the other pulley being responsive to the tightening mechanism controlled by the load. Thus, the pulley having a semi−circular sectioned groove will not damage the cable and the cable is retained therein by adherence, thus reducing as much the load exerted on the cable section engaging the second pulley, whereby a lesser retaining effort is exerted on this second pulley; when a pressure mechanism is provided for tensioning the cable in proportion to the load, said mechanism is associated with the pulley having the V−shaped groove.

0) US3921536A – CABLE GRIP TESTER

9) Family number: 1202363 (US3921536A) © PatBase

Title: CABLE GRIP TESTER

Priority: US19750545479 19750130

Family:

Publication number	Publication date	Application number	Application date
US3921536 A	19751125	US19750545479	19750130

Probable Assignee: HALL SKI LIFT CO INC

Assignee(s):(std)**:** HALL SKI LIFT CO INC ; HALL SKI LIFT COMPANY INC

Assignee(s): MARINE MIDLAND BANK NA

Inventor(s):(std)**:** SAVAGE PHILLIP D

International class(IPC 8–9)**:** B61B12/12 F16G11/10 (Advanced/Invention); B61B12/00 F16G11/00 (Core/Invention)

International class(IPC 1–7)**:** B61B12/12 B61B7/20 F16G11/00

CPC: B61B12/127 F16G11/048

European class: B61B12/12D F16G11/10

US class: 104/202 104/209

Classification Explorer

Cited documents: US3871304 A, US3785296 A, US3714904 A, US3610164 A, US3605632 A, US3585941 A, US3394661 A,

Forward Citations: US4936136, CN104354703, CN103693048, CN103693048,

Abstract:
Source: US3921536A A grip tester adapted for testing cable grips for a chair lift has a sprocket wheel mounted in proximity to the cable. The sprocket wheel has four axially extending notches across the perimeter of the wheel, each notch being profiled to receive a portion of the grips adjacent the cable–gripping portion of the grip as the grips pass by on the cable, the sprocket wheel being rotated a quarter turn by each grip. On one side, the sprocket wheel has coaxially secured to it a projecting two–tooth first member of a two part torque–friction device, the second four–tooth member being non–rotatably secured to a fixed support. The teeth of the friction device extend radially and are slope–sided. The non–rotatable member is adjustably spring–biased toward the first member for engagement of the respective teeth sides. A speed sensing wheel is biased against the top of the cable and each grip has a ramp–like track portion over which the wheel may travel. The wheel drives a tachometer generator which is electrically connected to a tachometer meter for operating a switch in the motor drive circuit of the lift for shutting off the lift when the tachometer senses a slowing of the wheel as it passes over the track portion of the grip.

0) WO0138756A1 – CABLE LOCK AND SEAL DEVICE DISPOSITIF D'ETANCH...

10) Family number: 20675570 (WO0138756A1) © PatBase

Title: CABLE LOCK AND SEAL DEVICE

Priority: GB19990027870 19991126 WO2000GB04462 20001124

Family:

Publication number	Publication date	Application number	Application date
AU200115342 A1	20010604	AU20010015342	20001124
AU200115342 A5	20010604	AU20010015342D	20001124
GB199927870 A0	20000126	GB19990027870	19991126
GB9927870 A0	20000126	GB19990027870	19991126
WO0138756 A1	20010531	WO2000GB04462	20001124

Probable Assignee: BLOXWICH TRANSPORT PROD LTD

Assignee(s):(std)**:** BLOXWICH TRANSPORT PROD LTD ; BLOXWICH TRANSPORTATION PRODUC ; BROWN CLIVE ALBERT ; BLOXWICH TRANSPORTATION PRODUCTS LIMITED ; BLOXWICH ENG

Assignee(s): BLOXWICH ENGINEERING LIMITED ; BLOXWICH ENGINEERING LTD ; BLOXWICH TRANSPORTATION PRODUCTS LTD

Inventor(s):(std)**:** BROWN CLIVE ALBERT

Inventor(s): CLIVE ALBERT BROWN

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

International class (IPC 8–9): F16G11/04 F16G11/10 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7): F16G11/04 G09F3/03

CPC: G09F3/0352 F16G11/02 F16G11/108 F16G11/14 G09F3/0358

European class: F16G11/04 F16G11/10 G09F3/03A6B G09F3/03A6C

Classification Explorer

Cited documents: US830656 A, US830565 A, US5538300 A, US5222776 A, US4747631 A, US4074916 A,

Forward Citations: WO17016687, WO04005753, RU173718, GB2453756, GB2453756, EP3115642, EP3115641, EP3115640, EP3102848,

Abstract:
A cable lock and seal device comprises a body (2) having a passage (9) therethrough and an elongate flexible inextensible member such as a cable (11) having one end (13) attached to the body, the opposite end being adapted to pass through the passage so that such cable engages a friction roller enclosed by the body, and rotatable about an axis normal to the axis of the passage. The roller (17) is movable upwardly along a surface (20) of a ramp which is inclined with respect to the axis of the passage (9) thereby to reduce the dimension of the passage available for accommodating the cable. A spring (19) is arranged to bias the roller (17) against the cable (11) when the latter is inserted into the passage (9), whereby, on attempted withdrawal of the cable from that passage, frictional engagement between the roller (17) and the cable (11) tends to draw the roller (17) upwardly along the ramp surface (20) to cause a jam fit with the cable (11) to resist further withdrawal. The spring (19) is arranged to bias the ramp surface (20) towards the axis of the passage (9), and that ramp surface (20) may be constituted by a surface of the spring (19).

0) US4854426A – HANDBRAKE COMPENSATOR FOR MOTOR VEHICLES

11) Family number: 18858374 (US4854426A) © PatBase

Title: HANDBRAKE COMPENSATOR FOR MOTOR VEHICLES

Priority: ES19870002034 19870710

Family:

Publication number	Publication date	Application number	Application date
DE3819177 A1	19890119	DE19883819177	19880606
ES2004746 AF	19890201	ES19870002034	19870710
FR2617784 A1	19890113	FR19880009119	19880701
FR2617784 B1	19930820	FR19880009119	19880701
GB2207207 A1	19890125	GB19880016450	19880711
GB2207207 B2	19910213	GB19880016450	19880711
GB8816450 A0	19880817	GB19880016450	19880711
IT1219339 A	19900503	IT19880067497	19880527
IT8867497 A0	19880527	IT19880067497	19880527
JP1030871 A2	19890201	JP19880171701	19880708
JP64030871 A2	19890201	JP19880171701	19880708
SE8801685 A	19890111	SE19880001685	19880504
SE8801685 A0	19880504	SE19880001685	19880504
SE8801685 L	19890111	SE19880001685	19880504
US4854426 A	19890808	US19880209857	19880622

Probable Assignee: PUJOL AND TARAGO

Assignee(s):(std)**:** PUHORU Y TARAGO SA ; PUJOL AND TARAGO ; PUJOL TARAGO SA ; PUJOL TARRAGO SA ; BUJOL AND TARRAGO SA ; PUJOL Y TARRAGO SA

Assignee(s): PUJOL Y TARRAGO S A ; BUJOL Y TARRAGO S A ; BUJOL Y TARRAGO SA ; PUJOL Y TARRAGO S A RUBI ES

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International class (IPC 8–9): B60T11/04 B60T11/06 F16G11/12 (Advanced/Invention) ; B60T11/00 F16G11/00 (Core/Invention)

International class (IPC 1–7): B60T11/04 B60T11/06 B60T17/18 B60T7/08 E04B1/62 F16D65/44 F16G11/12

CPC: Y10T74/20408 B60T11/06 B60T11/046 F16G11/12

European class: B60T11/04D B60T11/06 F16G11/12

US class: 188/196.00M 188/196M 74/501.50R 74/501.5R

Classification Explorer

Cited documents: US4235046 A, US3333660 A, US2249220 A, FR2443358 A1, FR2428280 A1, DE2923318 A1, DE2853111 A1, DE2750904 A1,

Forward Citations: WO9830433, US8631911, US8179776, US5386887, US5222413, US2011094838, FR2737320, FR2709846, EP1453709, EP0582934, DE102007037671,

Abstract:
Source: US4854426A A handbrake compensator for a motor vehicle includes a support having a tubular body

receiving a spring and two opposing flanges. The support is connected to a load distributor element which transmits load from a primary cable to a secondary cable connected to a wheel. The load distributor element has two opposing wings provided with elongated slots which receive a cap screw which connects the load distributor element to the support. One of the slots has toothed edges so that the screw can be moved axially of the support to adjust the position of the load distributor element relative to the spring to thereby adjust tension of the cables.

12) Family number: 32785913 (OA2945A) © PatBase

Title:	SYSTEME DE RACCORDEMENT ET DE FIXATION D'ELEMENTS DE JONCTION FLEXIBLES ET DE CONDUCTEURS ELECTRIQUES. SYSTEM WIRING AND FIXING ELEMENTS JUNCTION FLEXIBLE AND ELECTRICAL CONDUCTORS. (Machine translation)
Priority:	OA19680053440 19681202

Family:

Publication number	Publication date	Application number	Application date
OA2945 A	19701215	OA19680053440	19681202

Probable Assignee:	PASBRIG MAX
Assignee(s):(std):	PASBRIG MAX
Assignee(s):	MAX PASBRIG
International class (IPC 8–9):	F16G11/10 H01R4/52 (Advanced/Invention); F16G11/00 H01R4/52 (Core/Invention)
International class (IPC 1–7):	F16G11/10 H01R4/52
CPC:	F16G11/106 F16G11/108 H01R4/52 F16G11/12
European class:	F16G11/10 H01R4/52

Classification Explorer

Abstract:
Source: OA2945A [Source: Claim 1] ***** WARNING: OCR DATA – DESCRIPTION AND CLAIMS MAY OVERLAP *** *** Please email the Publication Number to Patbase@rws.com of any affected text for review ***** RE SUMS Systeme de raccordement et de fixation amovibles d'elements de jonction flexibles et de conducteurs electriques, oii une piece de serrage a ressort, guidee dans une chambre d'un boitier, verrouille, entre elle meme et la paroi de la chambre, 1'element 5 de jonction ou le eonducteur electrique, et presentant, isolement ou en combinaison, les caracteres inventifs suivants: 1. la chambre est formee par la rencontre de deux alesages se rejoingnant a angle aigu, grace a quoi le ressort qui maintient oscillante la piece de serrage est guide dans un des alesages, 10 et 1 'element de jonction, ou le conducteur electrique, dans l'autre alesage. / 2, le ressort qui sollicite la piece de serrage est un ressort a boudin enroule en cone, et a une extremite duquel est accorche la piece de serrage, qui presente une queue a elargissement. 15 5. Pour le deverrouillage ou l'introduction d'un element de jonction, on prevoit un bouton de commande mobile, au moyen duquel la piece de serrage peut etre rappelee en arriere malgre le ressort a bou– din annexe. 4. Pour s'assurer contre une liberation imprevue, 1'auto–verrouilla– 20 ge du bouton de commande se fait sous l'action d'un ressort et/ ou d'un aimant, dirige transversalement a la force du ressort a boudin annexe a la piece de serrage, et le bouton de commande est maintenu par une fermeture a farce ou de forme. / 5 5. Un dispositif tendeur est fixe amovible, avec des moyens de fixation de 1'element de jonction sortant de la chambre qui renferme 25 la piece de serrage. 6. le boitier presente une fente ouverte en permanence, ou pouvant etre masquee, et qui s'etend de 11exterieur jusqu'a la chambre renfermant la piece de serrage., 7. le systeme constitue un tendeur pour ceinture de securite, tandis que, dans une chambre de large section transversale rec– tangulaire, plusieurs pieces de serrage sont rangees les unes a cote des autres, et bloquent la ceinture de securite en auto– verrouillage. – 8. le col de la piece de serrage est articule mobile sur un coulisseau qui glisse dans l'alesage ou se trouve le ressort, et est fixe au bouton de commande. 9. Pour le raccordement de deux elements de jonction, deux alesages d'ecartement angulaire de 180 degrees conduisent dans la chambre ou est place un ressort a boudin a spires en double cone, et dont les extremites portent chacune une piece de serrage; au moins une fente longitudinale est menagee dans la gaine du boitier, et un bouton de commande peut s'y deplacer. 10. Dans le systeme correspondant a l'alinea 3» la queue de la piece de serrage est saisie par l'extremite, coudee en noeud coulant, d'un fil guide par une fente vers le bouton de commande. / 11. Dans le systeme conforme a l'alinea 1, il y a deux alesages opposes, a l'extremite de l'alesagui recoit le ressort; un crochet y est ancre par son extremite, et l'extremite du crochet S en saillie a l'interieur de l'alesage, sert de siege de "butee pour le ressort. / 11. Pans le systeme conforme a 11 alinea 9, le boitier presente deux fentes diametralement opposees et s'etendant jusqu'a la chambre qui recoit le ressort a compression, et l'alesage contient une piece de guidage a ergots faisant saillie exterieurement par la fente, et aux extremites exterieures desquels sont montes les elements de commande. z 13. ""ans le systeme conforme a l'alinea 8, a l'extremite de la queue de la niece de serrage, on a prevu une broche–support trans– versale a cette queue, et qui est mobile, articulee dans une gorge du coulisseau. / 14. bans le systeme conforme a l'alinea 4, le bouton de commande est mobile axialement et basculable dans une entaille de la gaine du systeme, ou la paroi de l'entaille situee dans la direction de la commande de liberation du bouton de commande,.presente des crans profiles encoulisse. / 13. Dans un systeme conforme a 1'alinea 5» le dispositif tendeur comprend un bras de levier se terminant, a une de ses extremites, par une fourchette et, dans sa partie en fourchette, il y a des broches qui sont recues dans lew alesages opposes du boit40ti ou bien dans une broche perpendiculaire a l'axe longitudinal

du boitier present, a une de ses extremites, un oeil dans lequel peut–etre enfoncee une des branches de la fourchette du levier ci–dessus, et dont l'autre extremite est entouree par la seconde branche de la fourchette, profilee a cet effet, 16. Dans le systeme conforme a l'alinea 15» le levier presente une fente ouverte lateralement, dans laquelle peut etre introduit 1'element de jonction, et dans laquelle un systeme de serrage, consistant en un ressort a lame et une piece de serrage, est prevu pour l'element de jonction. 17. Dans le systeme conforme aux alineas 5 et 15, le levier est equipe d'un systeme de serrage comportant un manchon avec un ressort a boudin, une piece de serrage et un bouton de commande. / 18. Dans un systeme conforme a l'alinea 5, le dispositif tendeur pour la fixation du cable, possede un serrage a excentrique ou un appendice a plusieurs enroulements. 19. Dans un systeme conforme a l'alinea 6, une chambre recevant la oiece de serrage dans sa position d'ouverture est prevue a partir de l'extremite de l'alesage interieur retreci, a l'in– terieur du boitier, obliquement par rapport a l'alesage./•' 20. Dans un systeme conforme a l'alinea 6, la surface de pression de la piece de serrage epouse 1'element de jonction, ou a un profil concave, en sorte que l'element de jonction, en etat de verrouillage, ne peut s'echapper lateralement dans la direction de la fente. z 21. D percent ns un systeme conforme a l'alinea 6, la fente est dessinee en labyrinthe, pour interdire a 1'element de jonction en place tout glissement vers l'exterieur. 22. Dans un systeme conforme a l'alinea 6, le boitier consiste en un manchon de section transversale en U, dont le cote ouvert peut etre masque par un couvercle. // 23. Dans un systeme conforme aux alineas 6 et 23» le couvercle glisse dans une paroi du manchon, et un verrou le maintient en position fermee. 24. Dans un systeme conforme aux alineas 6 et 22, la fente tra– 5 verse obliquement le manchon, et le reste de 1 ss alesage est ferme. 25. Dans un systeme conforme a l'alinea 6, il y a un manchon ae recouvrement mobile pour recouvrir la fente laterale. / 26. Dans un systeme conforme a l'alinea 6, pour la fixation d'un element de jonction tendu dans les deux directions, le dispositif 10 est a serrage double ou multiple,ou a chacune des deux extremites d'une chambre traversante, des ressorts sont montes, avec la piece de serrage associee, en direction d'action opposee. / 27. Dans un systeme conforme a 1'alinea 6, il y a un appendice d'arret pour la fixation a un mat ou a quelque autre point 15 fixe. / 28. Dans un systeme conforme a l'alinea 7, une fente d'introduc– tion et une fente de sortie debouchent a angle obtus dans la chambre du tendeur. 29. Dans un systeme conforme a l'alinea 7, un organe de commande 20 se presente comme un coulisseau faisant saillie sur toute la longueur du tendeur, avec des pieces de prise laterales, et les pieces de serrage sont montees mobiles sur le coulisseau, de sorte qu'il y a possibilite de basculage de ces pieces dans un plan perpendiculaire a la surface de la ceinture. 25 30. Dans un systeme conforme a l'alinea 7, les pieces de serrage r sont dessinees en profiles plats, ou, en profil, une tete elargie se raccorde a une surface de contact cannelee tournee vers la ceinture, et qui, au–dela d'une queue plus mince, se termine par une bille de positionnement a l'extremite de la piece de serrage.>– 31. Bans un systeme conforme a l'alinea 7, le tendeur est constitue en fermoir double, avec deux jeux de pieces de serrage,ressorts, fentes d'introduction et de sortie, de sorte que chacune des pieces de la ceinture permet un raccour– cissement et un serrage auto–verrouillant, a moins qu'un jeu de pieces de serrage soit agence a une hamjpe fixee a une piece de la ceinture, et l'autre, a l'autre piece de celle–ci. / 31. Dans un systeme conforme aux alineas 7 et 30, dans chaque jeu de pieces de serrage, la piece du milieu est piriforme, et les pieces, exterieures on un profil plat. 33. Dans un. systeme conforme aux alineas 7 et 30, des bandes de tole mince, coudees, sont accrochees aux queues des pieces de serrage, et sont reliees a un coulisseau de commande mobile sur le cote superieur du tendeur. 34. Systeme de raccordement amovible de plusieurs conducteurs electriques, conforme au premier alinea, caracterise par un certain de nombre de pieces en forme de manchon, placees a certains intervalles les unes des autres, presentant chacune un alesage interieur de part en part, et deux alesages obliques debouchant au voisinage de l'une des ouvertures frontales des alesages interieurs, ainsi qu'un ressort dans chacun de ceux–ci; – par des pieces de serrage fixees chacune aux deux extremites frontales de–' ressorts, qui les pressent contre les ouvertures frontales; – enfin par un domino en matiere synthetique, ou 5 sont loges les corps ou pieces en forme de manchon. 35. Dans un systeme selon le premier alinea, les chambres ren– fermant les pieces de serrage et les extremites des conducteurs electriques que l'on y enfonce, sont montees directement dans le boitier d'un appareil electrique. / 10 36. Dans un systeme de raccordement amovible de plusieurs con– ducteurs electriques, conforme aux premier alinea, plusieurs corps conducteurs en forme de plaque, qui presentent des alesages, des chambres, des ressorts et des pieces de serrage, sont separes electriquement les uns des autres par des plaques en matiere syn– 15 thetique, et saisie dlun seul tenant par un cadre commun en matiere synthetique; les corps conducteurs plats relient des alesages interieurs determines aux pieces de serrage individuelles, conduisant dans le bloc les unes avec les autres. S 37. Dans un systeme de raccordement amovible de plusieurs conduc– 20 teurs electriques, conforme au premier alinea, le s alesages inte– rieurs contenant les ressorts vont d'une paroi laterale d'un bloc en un materiau conducteur, jusqu'a la paroi laterale oppcsee. / 38. Dans un systeme conforme aux alineas 1 et 36, le bloc con– ducteur e and t de forme cylindrique, et les alesages obliques sortent 25 de la surfacede sa gaine • 39. Systeme conforme a l'alinea 36, ou, dans les corps en forme de plaque, des fentes courent parallelement aux alesages inte– rieurs, qu'elles coupent; une tige de commande des ressorts et des pieces de serrere traversant ces corps de part en part a travers 1 'ensemble des alesages interieurs, y coulisse. 40. Dans un systeme selon le premier alinea, un dispositif de commande est constitue par;une source d'un agent pressurise, par le moyen duquel un courant de pression est cree dans l'alesage ou sont les ressorts, et fait reculer la piece de serrage malgre le ressort de celle–ci. ‘ 41. Dans un systeme conforme a 1'alinea 40, la chambre, commune a l'alesage interieur et a l'alesage oblique, laquelle contient la piece de serrage, communique d'un cote avec une ouverture d'amenee servant \ l'admission de l'agent de compression, et de l'autre cote, vec un event servant a 1'evacuation du meme agent; un retreo. ssement formant buse de venturi est place dans la direction du courant, en avant de la chambre., 42. Dans un system ' conforme a l'alinea 39 pour le raccordement de faisceaux de cables ou autres extremites de fils multiples, les chambres sont reliees par des canaux de facon a rendre pos– sible la commande simultanee d'un grand nombre de pieces de commande • /" 43. Dans un systeme conforme a l'alinea 39, les extremites des fils sont saisies dans des fiches en gouttiere ou en cuiller, qui sont introduites dans les chambres, et maintenues en auto–verrouil– lage par les pieces de serrage. / 44. Systeme de contact electrique conforme au premier alinea, ou, d ns la: ongueur de la chambre et dans la paroi de celle–ci, il y a une "bande conductrice electrique sur laquelle est raccordement electrique a coupler. 45ss ysteme conforme a l'alinea 44» ou, dans une

de serrage en domino, il y a deux rangees voisines de chambres dans le coprs commun, et les chambres respectivement opposees elon un angle aigu ouvert dans la direction d1introduction, tandis que les bandes conductrices ont une forme generale en V et reliant le s/une s avec les autres les chambres qui. se font;6, Dans un systeme conforme a l'alinea 44, l'alesage oblique par rapport a l'axe de la chambre qui recoit la piece de serrage, est une chambre fermee vers l'exterieur, pour recevoir 1'extremite introduite du conducteur. 47. Dans un systeme conforme a l'alinea 44, une levre estampee dans la bande conductrice, a l'entree de la chambre suivante, recoit l'extremite du conducteur. 48. Dans ce meme systeme, la bande conductrice est tiree dans la paroi de la chambre suivante.y 49. Dans ce meme systeme, la piece de serrage presente un alesage transversal a 1'extremite introduite du conducteur, et un element de commande peut y etre introduit pour deverrouiller l'extremite du conducteur. 50. "Dans un systeme,–elon l'alinea. 49» l'element de commande est une qui s'etend dans 1'alesage de la piece de serrage et est guidee dans les fentes dirigees selon l'axe de la chambre conte–nant la piece de serrage. z 5'1. "Dans un systeme conforme a l'alinea 45» tous les corps de serrage de chaque rangee, avec leurs alesages, sont enfiles, avec un certain intervalle, chacun sur une tige; la tige en matiere synthetique presente des renflements pour le maintien des intervalles des pieces de serrage, et elle est maintenue rotative dans les nieces de serrage. z 52. Dans un systeme conforme a l'alinea 51, il y a un coulisseau glissant dans chacune des entailles du corps de serrage en domino, qui agit sur les deux tiges portant les pieces de serrage, s'eten– dant,avec un certain intervalle entre elles, dans la direction longitudinale du domino de raccordement, de sorte qu'en manoeuvrant dans une premiere direction, les pieces de serrage qui s'y rappor–tent, sur le premier cote du domino, sont mises en jeu; dans l'autre direction, ce sont les pieces de serrage opposees. 55. Dans un systeme conforme a l'alinea 44, la bande conductrice est logee dans une rainure de la paroi de sa chambre, 54. Dans yn systeme conforme a l'alinea 44» la bande conductrice presente une creusure dirigee dans la longueur de l'extremite du conducteur, qu'elle recoit. BUGNION – UBAF S. A. B. P. 4038 NLONGKAK– YAOUNDE/CAMEROUN [Source: Claim 1] ***** WARNING: OCR DATA – DESCRIPTION AND CLAIMS MAY OVERLAP *** *** Please email the Publication Number to Patbase@rws.com of affected Any text for review ***** RE SUMS removable connection and fastening Systeme flexible junction Elements and electric conductors, OII a clamping part has spring, guided in a chamber of a housing, locks, even between her and the wall of the bedroom, 1 'element of junction 5 or eonducteur electric, and presenting, isolation or in combination, the following inventive characters: 1. the chamber is formed by the meeting of two bores rejoingnant a sharp angle, thanks which the spring that holds the swing tightening guide is room in one of the bores, 10 and 1 'element junction, or the electric conductor in the other bore. / 2, the spring biasing the clamping pieces is a spring coil is wound into cone, and at one end of which is accorche the clamping pieces, which presents a tail widening. 15 5. For the unlocking or the introduction of an element of junction, it provides for a mobile command button, by which the clamping pieces can be called backward despite the spring has button Din Annex. 4. To insure against unforeseen release, 1'auto verrouilla– 20–ge control knob is under the action of a spring and / or a magnet, runs transversely to the spring force has boudin Annex to the clamping pieces, and the button is held by a closure farce or form. / 5 5. A tensioning device is detachably fixed, with 1'element fixing means outgoing junction of the chamber 25 which contains the clamping part. 6. the case presents a permanently open slot, or can be masked, and that extends to 11exterieur until the chamber enclosing the clamping pieces. 7. The system is a tensioner seat belts, while in a wide cross–section rectangular room, more clamping parts are rows beside each other, and block the self locking in safety belt. – 8. the collar of the clamping pieces is articulated mobile on a slide that slides into the bore or is spring, and is fixed to the control knob. 9. For the connection of two Elements junction, two bores angular spacing of 180 degrees result in the room or is instead a spring coil has a double cone turns, each of which carry the ends a clamping pieces; at least one longitudinal slot is provided in the sheath of the case, and a control button can move it. 10. In the system corresponding to paragraph 3 'tail of the clamping pieces is entered by the extremity, bent in the noose of a guide wire through a slot to the button. / 11. In the system conforming to paragraph 1, there are two bores opposed, at the tip of the alesagui receives the spring; a hook is anchored there by its extremity, and the extremity of the S hook protruding on the inside of the bore, serves as headquarters of "Thrust for the spring. / 11. Pans the system conforms to 11 paragraph 9, the case presents two diametrically opposed slots and extending up to the room which receives a compression spring, and the bore contains a guide part has pins projecting externally through the slot, and External ends of which are mounted the elements of order. 13. z " 'years the system conforms to paragraph 8, at the tip of the tail of the clamping niece, a support pin was expected transverse to the tail, and is movable, articulated in a groove of the slide. / 14. bans the system conforms to paragraph 4, the control knob is axially movable and tiltable in a notch of the sheath of the system, or the wall of the notch situated in the direction of the release of control button order.presente encoulisse profiles of notches. / 13. In a system according to 1'alinea 5 »the tensioning device comprises a lever arm terminating, at one of its ends, by a fork and, in its part fork, there are pins which are received in lew BORE opposed the boit40ti or in a spindle perpendicular to the longitudinal axis of the housing present, has one of its ends, a look–in which can be pushed one of the branches of the range of the above lever, and whose other end is surrounded by the second leg of the fork, contoured thereto, 16. in the system conforms to paragraph 15 "lever presents a laterally open slot into which can be introduced 1'element junction, and which a clamping system consisting of a leaf spring and a clamping pieces is planned for the joining element. 17. In the system complies with paragraphs 5 and 15, the lever is fitted with a clamping system having a sleeve with a spring roll, a clamping pieces and a command button. / 18In a system conforming to paragraph 5, the tensioning device for fixing the cable, possesses a clamping eccentric or appendix has more windings. 19. In a system conforming to paragraph 6, a chamber receiving the clamping oiece in its open position is planned from the extremity of the bore inside shrunk, has the positive terieur the housing obliquely relative to the bore. / • '20. in a system conforming to paragraph 6, the pressure surface of the clamping pieces wife 1'element junction, or has a concave profile, so that the element junction in the locked state, can not escape laterally in the direction of the slot. z 21. A pierce ns a system conforming to paragraph 6, the slot is comic labyrinth, to prohibit 1'element a junction up slipping outwards. 22. In a system conforming to paragraph 6, the case is a sleeve of U cross–section, the open side may be mask by a cover. // 23. In a system complies with paragraphs 6 and 23 "cover slips into a sleeve wall, and a latch holding it in closed position. 24. In a system complies with paragraphs 6 and 22, the work– 5 slot obliquely pays the sleeve,

and the remaining 1 ss bore is closed. 25. In a system conforming to paragraph 6, there is a recovery ae mobile sleeve for covering the lateral slot. / 26. In a system conforming to paragraph 6, for fixing a connecting element stretched in both directions, the device 10 is a double or multiple clamping, or each of the two ends of a through room, springs are mounted, with the associated clamping pieces in the direction of opposite action. / 27. In a system conforms to 1'alinea 6, there is a stop appendix for fixing a mat or some other fixed point 15. / 28. In a system conforms to paragraph 7, an introduction slit and an exit slit open at an obtuse angle in the chamber of the tensioner. 29. In a system conforms to paragraph 7, a controller 20 is presented as a slide projecting over the length of the tensioner, with parts of lateral grip, and clamping parts are mobile montees on the slide, so that there is possibility of these parts rocking in a plane perpendicular to the surface of the belt. 25 30. In a system conforms to paragraph 7, the r clamping parts are dessinees flat profiles or in profile, an enlarged head is connected to a contact surface cannelee tour to the belt, and that, over and beyond a thinner tail ends with a positioning ball at the tip of the clamping pieces and gt; –. 31. Bans a consistent system to paragraph 7, the tensioner is double clasp with two clamping parts of games, springs, insertion slots and output, so that each of the pieces belt allows a shortening and a self–locking clamp, unless a set of clamp parts or agency a fixed hamjpe has a room of the belt, and the other to the other pieces of it. / 31. In a system complies with paragraphs 7 and 30, in each set of clamping pieces, the middle room is pear–shaped, and the parts, External is a flat profile. 33. In a. system complies with paragraphs 7 and 30, strips of thin sheet metal, cubits, hang on the tails of the clamping parts, and are connected to a mobile control slide on the upper side of the stretcher. 34. removable terminal Systeme several electrical conductors, according to the first paragraph, characterized by a certain number of sleeve–like parts placed at intervals from one another, each presenting an interior bore through and through, and two oblique bores opening adjacent one of the end openings of the inner bores, and a spring in each thereof; – By clamping parts fixed to each two ends de– 'springs, which press against the front openings; – Finally, a domino in synthetic material, or 5 boxes are the body or sleeve shaped parts. 35. In a system according to the first paragraph, the encounter bedrooms closing clamping parts and the ends of electrical conductors which are inserted therein, are mounted directly in the housing of an electrical device. / 10 36. In a removable connecting system of several con– electrical conductors, comply with the first paragraph, more conductive plate–shaped body, which have bores, rooms, springs and clamping parts are electrically separated the each other by plates in matters syn– 15 thetic and seizure dlun one piece by a common framework synthetic material; flat conductive bodies connecting bores Interior determined individual clamping parts, resulting in the block with each other. S 37.In a removable connecting system of several electrical conductors 20 ers, according to the first paragraph, the s BORE inte– laughing containing the springs range from a side wall of a block of conductive material, up to the side wall oppcsee. / 38. In a system complies with paragraphs 1 and 36, the conductor block e t and cylindrical, and obliques BORE 25 out of its sheath surfacede 39. • System conforms to paragraph 36, or, the plate–shaped body, slits run parallel to the bores inte– laughing, they intersect; a control rod springs and parts of serrere through the body from side to side through one set of internal bores, slide it. 40. In a system according to the first paragraph, is a control device is by; a source of a pressurizing agent, by means of which a pressure is created in the current boring or are the springs and alleviates the room clamping despite the spring thereof. '41. In a system conforms to 1'alinea 40, the room, the municipality bore interior and the oblique bore, which contains the clamping pieces, communicates on one side with an opening for people brought \ l admission of compression agent, and on the other side, ith an event for 1'evacuation has the same agent; a retreo. ng the venturi nozzle is placed in the current direction, in front of the chamber. 42. In a system 'in conformity to paragraph 39 for connecting cables or other extremities son multiple beams, the rooms are connected by channel way to make possible the simultaneous control of a large number of control rooms • / "43. in a system conforms to paragraph 39, the ends of the son are entered in sheets or in gutter spoon, which are introduced in the rooms, and maintained self–locking by the clamping pieces / electrical contact 44. System according to the first paragraph, or, for the ns. ength of the room and into the wall thereof, there is an "electrical conductive strip on which electrical connection has coupling. 45 ss ystem conform to paragraph 44 ", or in a clamping domino, there are two neighboring rows of rooms in the common coprs, and the rooms OPPOSING ccording respectively an acute angle open in the direction d1introduction while conductive strips have a general V–shape and connecting the s / s with a other rooms that. are; 6 In a system conforms to paragraph 44, the oblique bore relative to the axis of the chamber that receives the clamping room is an enclosed room to the outside, to receive 1'extremite introduced the driver. 47. In a system conforms to paragraph 44, a lip estampee in the conductive tape at the entrance to the next room, receives the extremity of the driver. 48. In this same system, the conductive strip is tiree in the wall of the room suivante.y 49. In this same system, the clamping coin depicts a cross bore has introduced 1'extremite driver, and a control element can will be introduced to unlock the extremity of the driver. 50. "In a system, –elon the paragraph. 49" control element is one that extends in 1'alesage the clamping pieces and is guided into the slots being managed according to the axis of the tale room.. – ing clamping pieces z 5'1 "in a system conforms to paragraph 45" all clamp bodies of each row, with their bores, are strung with a certain interval, each on a rod; the stem synthetic material present bulges for the maintenance intervals of the clamping parts, and is kept rotating in the clamping nephews. z 52. In a system conforms to paragraph 51, there is a slide sliding in each of the slots of the clamp body domino, which acts on the two rods supporting the clamping parts, will extend ever, with a certain interval between them in the longitudinal direction of domino connection, so that maneuvering in a first direction, the clamping parts therein tent rapporteurs, on the first side of the domino, are brought into play; in the other direction, it is the opposed clamping parts. 55. In a system conforms to paragraph 44, the conductive strip is housed in a groove in the wall of his room 54. yn system conforms to paragraph 44 "the conductive strip presents a recess directed in length the extremity of the driver, she receives. BUGNION – UBAF S. A. B. P. 4038 NLONGKAK– YAOUNDE / CAMEROON

0) US2014226963A – MOTION CONTROL DEVICE

13) Family number: 54080540 (US2014226963A) © PatBase

Title: MOTION CONTROL DEVICE

Priority: NZ20110596986 20111209 WO2012NZ00231 20121210

Family:

Publication number	Publication date	Application number	Application date
CN204044478 U	20141224	CN201290000926U	20121210
EP2802938 A1	20141119	EP20120856052	20121210
EP2802938 A4	20151118	EP20120856052	20121210
EP2802938 B1	20171011	EP20120856052	20121210
US2014226963 AA	20140814	US20120348543	20121210
US9033598 BB	20150519	US20120348543	20121210
WO13085399 A1	20130613	WO2012NZ00231	20121210

Probable Assignee: SYRP LTD

Assignee(s):(std)**:** RYAN BENJAMIN DEREK ; SAPP CO LTD ; SYRP LTD ; THOMSON CHRISTOPHER AYSON

Assignee(s): SYRP LIMITED ; SAPP CO

Inventor(s):(std)**:** B D RAYNE ; C A THOMSON ; RYAN BENJAMIN DEREK ; THOMSON CHRISTOPHER AYSON

Inventor(s): CATHOMSON ; BDRAYNE

Agent(s): DAVIES ELLIOTT; WYNNE JONES LAINE AND JAMES LLP; PERKINS COIE LLP; CREATE IP

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

International class (IPC 8–9)**:** F16G11/10 F16M11/04 F16M11/14 F16M11/18 F16M11/20 F16M11/32 F16M11/42 G03B15/00 G03B17/00 G03B17/56 H04N5/222 (Advanced/Invention)

CPC: G03B15/00 F16G11/103 F16M11/041 F16M11/14 F16M11/18 F16M11/2014 F16M11/32 F16M11/425 G03B17/561

US class: 396/428

Classification Explorer

Cited documents: WO11147434 A1, WO05013195 A2, US6503163 BA, US5225863 A, US4727390 A, US4625938 A, US4614337 A, US2009309986 AA, US2009136326 AA, US2007054766 AA, US2006181637 AA, KR20110090429 A, DE20214250 U1,

DE202010003198 U1

DE202006014388 U1

Forward Citations: USD786955, USD783077, US9599878, CN104714499, CN104154384,

Abstract:
Source: US2014226963A Described herein is a motion control apparatus for a camera and methods of use of the apparatus. The apparatus includes a camera attachment and a linear movement assembly operatively associated with a drive mechanism. This configuration causes linear movement of the drive mechanism and the camera attachment in a linear direction along a line or pathway. The apparatus is used for capturing time delay sequences and allows for operation over any desired path length along the line. Further, the apparatus is portable and can be used with other camera accessories.

0) GB1510593A – MONO–CABLEWAYS

14) Family number: 1193067 (GB1510593A) © PatBase

Title: MONO–CABLEWAYS

Priority: CH19750001194 19750131

Family:

Publication number	Publication date	Application number	Application date
AT348015 B	19790125	AT19760000597	19760128
AT59776 A	19780615	AT19760000597	19760128
CA1043284 A1	19781128	CA19760244616	19760130
CH596018 A	19780228	CH19750001194	19750131
FR2299200 A1	19760827	FR19760002661	19760130
FR2299200 B3	19781020	FR19760002661	19760130
GB1510593 A	19780510	GB19760003737	19760130
IT1053483 A	19810831	IT19760047884	19760130

Probable Assignee: STREIFF MATHIAS AG

Assignee(s):(std)**:** STREIFF AG MATHIAS ; STREIFF M AG ; STREIFF MATHIAS AG

Assignee(s): STREIFF MATHIAS ; MATHIAS STREIFF AG ; STREIFF AG M

Inventor(s):(std)**:** STREIFF MATHIAS

Inventor(s): ERFINDER HAT AUF NENNUNG VERZICHTET ; MATHIAS STREIFF

International class (IPC 8–9)**:** B61B11/00 B61B12/12 (Advanced/Invention); B61B12/00 (Core/Invention)

International class (IPC 1–7)**:** B61B11/00 B61B12/02 B61B12/12 B61B7/04 F16G11/00 F16G11/06

CPC: B61B12/12

European class: B61B12/12

Classification Explorer

Abstract:
Source: GB1510593A 1510593 Cable clamps MATHIAS STREIFF AG 30 Jan 1976 [31 Jan 1975] 3737/76 Heading D1T [Also in Division B7] A cable clamp assembly has a U–shaped clamp 1 in which is a saddle–shaped clamping element 4, the cable 9 being gripped therebetween. The clamp 1 may have ribs 18 that fit into the helical grooves between the individual wire strands. Screws 20 compress the cable 9 between the clamp 1 and the clamping element 4. This compression may be via springs to compensate for variations in the diameter of the cable under load.

0) US6174253B – INFINITELY VARIABLE TRANSMISSION WITH TWO PAIRS...

15) Family number: 28716219 (US6174253B) © PatBase

Title: Infinitely variable transmission with two pairs of conical flanges

Priority: DE19971057175 19971222 DE19981057709 19981215 DE19981061359 19981215 US20000715421 20001117 US19980216074 19981218

Family:

Publication number	Publication date	Application number	Application date
DE19857709 A1	19990624	DE19981057709	19981215
DE19857709 B4	20060323	DE19981057709	19981215
DE19861359 B4	20121122	DE19981061359	19981215
JP11257448 A2	19990921	JP19980365750	19981222
JP4523085 B2	20100811	JP19980365750	19981222
NL1010859 A1	19990623	NL19981010859D	19981221
NL1010859 C2	20040719	NL19981010859	19981221
NL1026511 A1	20040923	NL20041026511D	20040628
US6174253 BA	20010116	US19980216074	19981218
US6585613 BA	20030701	US20000715421	20001117

Probable Assignee: LUK GETRIEBE SYSTEME GMBH

Assignee(s):(std): LUK GETRIEBE SYSTEME GMBH ; LUK GS VERWALTUNGS KG ; SCHAEFFLER TECHNOLOGIES AG

Assignee(s): SCHAEFFLER TECHNOLOGIES AG AND CO KG ; LUK GETRIEBE SYSTEME GMBH 77815 BUEHL DE ; LUK GETRIEBE SYSTEME GMBH IND ; LUK GETRIEBE SYST GMBH

Inventor(s):(std): BERNHARD WALTER ; EIDLOTH RAINER ; GRAEF KURT ; KURT GRAEF ; RAINER EIDLOTH ; WALTER BERNHARD

Inventor(s): WALTER BERNHARD 77704 OBERKIRCH DE ; GRAEF KURT 50259 PULHEIM DE ; EIDLOTH RAINER 96047 BAMBERG DE

International class (IPC 8–9): B62M9/06 F16H55/56 F16H61/662 F16H63/38 F16H9/18 F16H9/24 (Advanced/Invention)

International class (IPC 1–7): F16G59/00 F16G63/00 F16H55/56 F16H59/06 F16H59/14 F16H61/38 F16H63/36 F16H63/48 F16H9/18

CPC: F16H61/66272 F16H9/18

European class: F16H61/662K F16H9/18

US class: 474/18 474/28 474/70 474/8

Classification Explorer

Cited documents: US815345 A, US5711730 A, US5649457 A, US5295915 A, US5180339 A, US5152190 A, US5046991 A, US4899621 A, US4772247 A, US4736653 A, US4713041 A, US4699604 A, US4645046 A, US4487302 A, US4481004 A, US4380444 A, US3572145 A, JP8042654 A2, JP64055355 U1, JP64055355 u1, JP62155364 A2, JP4140543 A2, JP3189446, GB2133095 A1, FR2640346 A3, EP0711934 A1, EP0389030 A1, DE4234294 A1, DE4036683 A1, DE3730418 C2, DE2703487 C2, DE19801279 A1, DE19643304 A1, DE19544644 A1,

Forward Citations: WO09065382, WO09065382, WO07068227, WO03106866, WO03106866, US9182017, US8864610, US8752443, US8690716, US8120363, US8100791, US7677997, US7264564, US6962542, US6406395, US2013040769, US2011303033, US2010127668, US2009298626, US2009000875, US2008035409, US2007155550, US2006111208, US2006058127, US2005192697, US2003109340, FR2796693, EP1556635, CN102287531, CN102287531,

Abstract:
Source: US6174253B An infinitely variable transmission has a first pair of conical flanges arranged on a first shaft and a second pair of conical flanges arranged on a second shaft, where each pair has an axially movable flange and an axially fixed flange. A torque–transmitting means is disposed between the pairs of conical flanges.

Piston/cylinder units and plenum chambers comprising circular ring−shaped elements serve to apply pressure to and effect axial movement of the movable conical flanges. The ring−shaped elements have radially inner portions with openings to receive the shafts. The radially inner portion of at least one of the ring−shaped elements has a welded seam connecting the ring−shaped element to the shaft received by its opening.

16) Family number: 1021370 (US3689974A) © PatBase

Title: CABLE CLAMP AND APPARATUSES FOR ATTACHING AND FOR DETACHING THE CLAMP

Priority: US19700086088 19701102

Family:

Publication number	Publication date	Application number	Application date
US3689974 A	19720912	US19700086088	19701102

Probable Assignee: PRELUDE CORP

Assignee(s):(std)**:** PRELUDE CORP

Inventor(s):(std)**:** GIFFORD HOWARD W ; WHIPPLE WILLIAM D

Inventor(s): WILLIAM D WHIPPLE ; HOWARD W GIFFORD

International class (IPC 8–9)**:** B63B21/08 F16G11/00 (Advanced/Invention); B63B21/00 F16G11/00 (Core/Invention)

International class (IPC 1–7)**:** A01K75/00 B23P19/04

CPC: B63B21/08 F16G11/00 Y10T29/53526 F16G11/101

European class: B63B21/08 F16G11/00

US class: 29/200D 29/819

Classification Explorer

Cited documents: US3368267 A, US3098289 A,

Forward Citations: US4126850,

Abstract:
Source: US3689974A A releasable and lockably closing cable clamp has two clamp elements movable relative to each other between a release position and a cable–clamping closed position, and has a latch member movable between an unlatch position where the clamp elements are free for said relative movement and a latch position where it locks the clamp elements in the closed position.

0) US2317460A – ELECTRON RAY INDICATING DEVICE

17) Family number: 19416122 (US2317460A) © PatBase

Title: ELECTRON RAY INDICATING DEVICE

Priority:

DE1950L003021	19500709	DE1950L003025	19500709	DE1950L003026	19500709
DE1950L014079U	19500708	DE1950L006265	19501112	DE1951A013647	19510708
DE1951L010289	19511007	DE1951L008579	19510321	DE1951L010017	19510906
DE1951T005400	19511206	DE1951M010157	19510705	DE1951S023848	19510707
DE1951U001251	19510707	DE1951M009582	19510519	GB19530017334	19530623
DE1966P038757	19660211	DE1960ST16366	19600416	US19400346918	19400723
US19410423705	19411220	US19450606830	19450724	FR19610858793	19610414
DE1955P013761	19550314	DE1952S031179	19521124	US19510235634	19510707
US19510231262	19510612	US19510231261	19510612	US19510235114	19510703
US19510228814	19510529	US19510234704	19510702	GB19510016035	19510705
US19570645746	19570313				

Family:

Publication number	Publication date	Application number	Application date
AU156517 A1	00000000		00000000
BE501567 A	00000000		00000000
BE501568 A	00000000		00000000
BE504546 A	00000000		00000000
BE507046 A	00000000		00000000
BE512116 A	00000000		00000000
BE513971 A	00000000		00000000
CH281205 A	19520229		19500708
CH293273 A	19530915		00000000
CH293500 A	19530930		19510705
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CH455948 A	19680515	CH19670001873	19670208
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DE1790489 U	19590618	DE1950L014079U	19500708
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DE967560 A	19571121	DE1951L010017	19510906
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GB978223 A	19641216	GB19610013575	19610414	
NL76700 C	00000000		00000000	
NL78923 C	00000000		00000000	
NL81844 C	00000000		00000000	
NL89130 C	00000000		00000000	
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US2684304 A	19540720	US19510231262	19510612	
US2695232 A	19541123	US19510235634	19510707	
US2712612 A	19550705	US19510256941	19511110	
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US2764492 A	19560925	US19510231261	19510612	
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US2927237 A	19600301	US19570645746	19570313	
US3161800 A	19641215	US19610101296	19610406	

Probable Assignee: INT STANDARD ELECTRIC CORP

Assignee(s):[(std)]**:** AIR PREHEATER ; ASEA AB ; BERKEL PATENT NV ; BABCOCK AND WILCOX FRANCE ; BBC BROWN BOVERI AND CIE ; BETONDAK NV ; GEN ELECTRIC ; F L SMIDTH AND COMPANY AS ; GUTEHOFFNUNGSHU TTE OBERHAUSEN ; ELECTRONIQUE AND AUTOMATISME SA ; FABRICATIONS IND POUR LE CHAUF ; INT STANDARD ELECTRIC CORP ; F L SMIDTH AND CO AS ; RCA CORP ; PHILIPS NV ; SIEMENS AG ; PHILIPS PATENTVERWALTUNG ; LEITZ ERNST GMBH ; MEZZERA SOC PER AZIONI ; MAGNANI ALESSANDRO ; SMIDTH AND CO F L AS ; SMIDTH AND CO AS F L ; LORENZ C AG ; SANDVIKENS JERNVERKS AB ; GUTEHOFFNUNGSHUETTE OBERHAUSEN ; HANIEL AND LUEG GMBH ; LURGI GES F WAERMETECHNIK ; ROLEX MONTRES ; LURGI GES FUER WAERMETECHNIK ; RUHRCHEMIE AG ; PHILIPS ELECTRONIC ASSOCIATED ; KLEBER COLOMBES ; REGIE AUTONOME DES PETROLES ; KAMYR AB ; TEVES ALFRED KG ; STANDARD ELEKTRIK LORENZ AG ; UNION CHIMIQUE BELGE SA ; TELEFUNKEN GMBH ; STANDARD TELEPHON and RADIO AG ; STANDARD TELEPHONES CABLES LTD

Assignee(s): SOCIETE DE FABRICATIONS INDUSTRIELLES POUR LE CHAU ; SOCIETE DE FABRICATIONS INDUSTRIELLES POUR LE CHAUFFAGE ET L AERATION SOFICA ; STANDARD TELEPHON U RADIO AG ; TELEFUNKEN GES F DRAHTLOSE TELEGRAPHIE M B H ; TELEFUNKEN GES F DRAHTLOSE TELEGRAPHIE MBH ; STANDARD ELEKTRIK LORENZ AKTIENGESELLSCHAFT ; SOCIETE D ELECTRONIQUE ET D AUTOMATISME ; STANDARD TELEPHONES AND CABLES LIMITED ; VAN BERKEL S PATENT N V MIJ ; SOCIETE ANONYME BROWN BOVERI AND COMPAGNIE ; UNION CHIMIQUE BELGE SOC ANONYME ; UNION CHIMIQUE BELGE SOCIETE ANONYME ; STANDARD TELEPHON UND RADIO AG ; UNION CHIMIQUE BELGE S A ; N V BETONDAK ; PHILIPS ELECTRONIC AND ASSOCIATED INDUSTRIES LIMITED ; LURGI GES F WAERMETECHNIK MBH ; RUHRCHEMIE AKTIENGESELLSCHAFT ; HANIEL AND LUEG G M B H ; LURGI GES F WAERMETECHNIK M ; LURGI GESELLSCHAFT FUER WAERMETECHNIK M B H ; MONTRES ROLEX ; SANDVIKENS JERNVERKS AKTIEBOLAG ; GUTEHOFFNUNGSHU TTE OBERHAUSEN A G ; PHILIPS PATENTVERWALTUNG G M B H ; PHILIPS PATENTVERWALTUNG GMBH ; N V PHILIPS GLOEILAMPENFABRIEKEN ; SIEMENS SCHUCKERTWERKE AG ; SIEMENS SCHUCKERTWERKE AKTIENGESELLSCHAFT ; MAATSCHAPPIJ VAN BERKEL S PATENT N V ; RADIO OF AMERICA CORP ; F L SMIDTH AND COMPANY A S ; RADIO

CORP ; BROWN BOVERI AND COMP AG ; D ELECTRONIQUE ET D AUTOMATISME SOC ; GENERAL ELECTRIC CO ; ERNST LEITZ GMBH ; ERNST LEITZ G M B H ; ERNST LEITZ GES MIT BESCHRANKTER HAFTUNG ; ERNST LEITZ GESELLSCHAFT MIT BESCHRANKTER HAFTUNG ; F L SMIDTH AND CO A S ; FRANCAISE DES CONSTRUCTIONS BABCOCK AND WI SOC ; FRANCAISE DES CONSTRUCTIONS BABCOCK AND WILCOX SOC ; C LORENZ AG ; C LORENZ AKTIENGESELLSCHAFT ; GENERAL ELECTRIC COMPANY ; BROWN BOVERI AND CIE AG ; ALESSANDRO MAGNANI ; AIR PREHEATER CORP ; AKTIEBOLAGET KAMYR ; AKTIENGESELLSCHAFT BROWN BOVERI AND CIE ; AKTIENGESELLSCHAFT BROWN BOVERI AND COMPAGNIE ; ALFRED TEVES MASCH U ARMATURENFABRIK KOMMAND ; ALFRED TEVES MASCH U ARMATURENFABRIK KG ; ALLMANNA SVENSKA ELEKTRISKA AKTIEBOLAGET

Inventor(s):(std)**:** ALESSANDRO MAGNANI ; AWERBUCH NATHAN ; BAER HERBERT ; BAILEY FRANCIS M ; BOVERI CIE AG ; BOVERI CIE AKTIENGESELLSCHAFT ; BRUNEL HENRI ; BRUNNER AUGUST ; CARL RICHTER JOHAN CHRISTOFFER ; CESTARELLI ATTILIO ; CHOLLET LOUIS JEAN ; FRANKE KURT DIPL ING ; FRIEDRICH GEORG ; GODFRINE ANDRE ; GUDE DR ING HELMUTH TE ; HEISING HANS GUNTHER ; HERMANN KOEHER ; HOPPE GEORG ; HUYGHE ALBERT GASTON JOSEPH ; JERNVERKS AKTIEBOLAG SANDVIKEN ; ADAM WAGNER ; CROZE RAYMOND PAUL MARIE ; DUYN ADRIANUS VAN ; F L SMIDTH CO A S ; JUNGHANS WOLFGANG ; KURT FRANKE ; LEGER VICTOR LOUIS ANDRE ; LESVIGNE FRANCOIS HENRI ; LIEB ALBERT DIPL ING ; MAGNANI ALESSANDRO ; MALSCH DR FRIEDRICH ; NEBEL MAX ; RADIO AG STANDARD TELEPHON UND ; RADIO STANDARD TELEPHON U AG ; RICHTER JOHAN CHRISTOFFER FRED ; ROI RENE CHARLES ; ROTHE DR ING HORST ; SCHAAFF DR PHIL NAT ERNST ; SCHEMLA MEYER GUY ; SOKOLOFF BORIS ALEXANDRE ; TAFFOUREAU PHILEAS EMILE JULES ; THOMAS ALBERT ; TOUSON ISAAC ; UNGEMACH OTTO DR ; OTTO UNGEMACH ; NORBERT MEINERT ; MEINERT NORBERT ; MALSCH FRIEDRICH K ; MALSCH FRIEDRICH ; GUSTAV WEISSENBERG ; FRIEDRICH MALSCH ; BREDOW HEINZ ; LIEB DIPL ING ALBERT ; LIEB ALBERT ; JUNGHANS W ; WAGNER EUGEN KARL AUGUST ; WALTER JUNG ; WOLFGANG JUNGHANS ; WEISSENBERG GUSTAV ; FRANKE K ; DJORDJEVITCH YESDIMIR ; ALBERT LIEB ; ALBERT HULTQUIST J

Inventor(s): UNGEMACH OTTO ; HULTQUIST J ALBERT ; WAGNER ADAM ; STANDARD TELEPHON U RADIO AG ; RICHTER JOHAN CHRISTOFFER FREDERIK CARL ; RICHTER JOHAN CHRISTOFFER FREDRIK CARL ; KOEHER HERMANN ; FRANKE KURT ; F L SMIDTH AND CO A S ; AG STANDARD TELEPHON UND RADIO ; AKTIEBOLAG SANDVIKENS JERNVERKS ; JUNG WALTER ; CIE AKTIENGESELLSCHAFT BROWN BOVERI and ; CIE BROWN BOVERI AND AG

International class(IPC 8–9)**:** A47J19/00 A47J47/10 A47K13/06 A61F2/64 A61M5/178 B01D45/14 B07B7/04 B23C5/26 B23K9/073 B28B1/52 B60H1/00 B62J6/06 B67B3/20 C03C27/12 C03C3/00 C03C3/072 C03C3/16 C03C3/17 C03C3/23 C07D213/86 C07D453/04 C09J189/00 C09K8/20 C10M175/00 D04B11/32 D06B17/06 D21C7/10 D21C7/12 E02D5/58 E04B2/14 E21B19/10 E21D11/18 F16D51/20 F16D65/14 F16D65/46 F16G3/02 F23D14/04 F28F3/02 G01G21/00 G01G23/18 G02C7/10 G02C7/16 G03B9/70 G04B19/14 G04B19/247 G04B19/253 H01J31/14 H01L35/32 H02J3/42 H02K21/12 H02P7/298 H03J3/14 H04M1/03 (Advanced/Invention);
A47J19/00 A47J47/00 A47K13/00 A61F2/60 A61M5/178 B01D45/12 B07B7/00 B23C5/00 B23K9/06 B28B1/52 B60H1/00 B67B3/00 C03C27/12 C03C3/00 C03C3/062 C03C3/12 C07D213/00 C09J189/00 C09K8/02 C10M175/00 D04B11/00 D06B17/00 D21C7/00 E02D5/22 E21B19/00 E21D11/14 F16G3/00 F28F3/00 G01G21/00 G02C7/00 G03B9/00 G04B19/00 G04B19/06 H01J31/14 H01L35/32 H02J3/40 H02P7/18 H03J3/00 H04M1/03 (Core/Invention)

International class(IPC 1–7)**:** A47G19/18 A47J19/00 A47K13/06 A61F1/04 A61K31/49 A61M5/18 B01J3/02 B21C47/18 B21D41/02 B23C5/26 B23K9/12 B28B1/52 B60H1/00 B60H1/10 B65D17/16 C03C1/00 C03C3/12 C03C3/14 C03C3/16 C07D453/04 C09H11/00 C09K7/02 C10M11/00 D04B15/88 D06B3/16 D21C3/24 D21C7/00 D21C7/12 E02D5/58 E21B21/04 E21D11/14 E21D11/22 F01P5/02 F04D29/70 F16G3/02 F28F3/04 G01G21/04 G01G21/22 G01G23/40 G02B1/00 G02C7/16 G03B9/70 G04B19/14 G04B19/24 H01J31/14 H02K21/22 H02P7/30 H04M1/04

CPC: C07D213/86 H01J31/14 H03J3/14 F16D51/20 F16D65/46 F16D2125/32 H02J3/42 C07D453/04 G01G21/00 B07B7/04 F23D14/04 H01L35/32 B23C5/26 B23K9/0731 Y10S501/901 Y10S501/903 C03C3/072 C03C3/23 C03C3/17 C03C3/16 D06B17/06 Y10T74/2084 G03B9/70 B28B1/52 D04B11/32 E21D11/183 G04B19/14 G04B19/247 E21B19/10 F28F3/02 G01G23/18 A47K13/06 C07C27/28 C07B63/02 C07C27/34 A61F2/642 A61F2/646 A47J47/10 B62J6/06 H02K21/12 H02K2201/12 A61M5/178 H04M1/03 H02P7/298 A47J19/005 C10M175/0016 G02C7/105 G02C7/16 B01D45/14 F16G3/02 E02D5/58 C09K8/206 B60H1/00471 C09H11/00 E04B2/14 D21C7/10 D21C7/12 Y10S501/90 C03C3/00

European class: 12O27C2 A47J19/00C A47J47/10 A47K13/06 A61F2/64P A61M5/178 B01D45/14 B07B7/04 B23C5/26 B23K9/073B B28B1/52 B60H1/00K2 B62J6/06 C03C3/00 C03C3/072 C03C3/16 C03C3/17 C03C3/23 C07B63/02 C07C27/28 C07C27/34 C07D213/86 C07D453/04 C09H11/00 C09K8/20C C10M175/00C D04B11/32 D06B17/06 D21C7/10 D21C7/12 E02D5/58 E04B2/14 E21B19/10 E21D11/18D F16D51/20 F16D65/46 F16G3/02 F23D14/04 F28F3/02 G01G21/00 G01G23/18 G02C7/10 G02C7/16 G03B9/70 G04B19/14 G04B19/247 G04B19/24B G04B19/24B7D4 H01J31/14 H01L35/32 H02J3/42 H02K21/12 H02P7/298 H03J3/14 H04M1/03 K61F2/64P4 R16D125/32 T02K201/12

US class: 162/237 162/249 162/251 200/38A 200/61.58R 210/181 210/316 210/340 219/130.4 219/137.71 235/64.7 313/107.5 313/258 313/261 313/296 313/303 313/326 313/357 313/495 314/76 315/13.1 318/141 318/158 318/286 318/479 324/121.00R 324/121R 334/35 334/36 396/187 455/159.1 455/212 501/41 501/42 501/43 501/44 501/45 501/47 501/48 501/53 501/74 501/900 501/901 501/903 65/374.12 74/553

Classification Explorer

Cited documents: US2927237 A, US2805352 A, US2712612 A, US2639398 A, US2594026 A, US2594025 A, US2578325 A, US2552250 A, US2518194 A, US2513908 A, US2497235 A, US2474862 A, US2465041 A, US2455365 A, US2444845 A, US2420644 A, US2414062 A, US2412350 A, US2411031 A, US2394857 A, US2366320 A, US2321855 A, US2318140 A, US2315945 A, US2311672 A, US2294182 A, US2291190 A, US2284486 A, US2273800 A, US2273142 A, US2263045 A, US2252580 A, US2243408 A, US2243034 A, US2219506 A, US2211844 A, US2206954 A, US2175700 A, US2167842 A, US2163546 A, US2123112 A, US2122268 A, US2113669 A, US2108880 A, US2105818 A, US2098231 A, US2051188 A, US2036696 A, US2014106 A, US1901605 A, US1654404 A, US1630443 A, US1589837 A, US1548477 A, US1529259 A, NO18419 A, NL66335 C, GB838078 A, GB829553 A, GB635480 A, GB587201 A, GB585257 A, GB564973 A, GB525599 A, GB520655 A, GB491860 A, GB462304 A, GB190708704 A, FR960917 A, FR927494 A, FR909143 A, FR871592 A, FR853504 A, FR852892 A, FR807964 A, DE973132 A, DE950946 A, DE909008 A, DE875973 A, DE875842 A, DE729246 A, DE705488 A, DE694213 A, DE627065 A, DE592950 A, DE369074 A, DE1790489 U, DE1059116 B, DE1038201 B, DE1029940 B, CH299070 A, CH242723 A, CH232225 A, CH194296 A, AU156517, AU111424, AT178403 B,

Forward Citations: WO9603412, WO11096857, USD626805, USB286499, US9535403, US5985096, US5770072, US5512666, US5236554, US5069752, US4971518, US4695765, US4693785, US4637878, US4568419, US4469800, US4387322, US4206174, US4164610, US4026714, US3964962, US3935018, US3914129, US3880663, US3751272, US3441475, US3385753, US3299305, US3298899, US3277269, US3216836, US3200032, US3193444, US3161800, US3144578, US3043702, US3035962, US3025124, US3009819, US3007839, US2998064, US2996393, US2996390, US2977859, US2954493, US2937575, US2933404, US2933025, US2930298, US2912904, US2829294, US2822494, US2820916, US2814192, US2805352, US2802128, US2799790, US2784650, US2767341, US2750546, US2736834, US2600063, US2594026, US2594025, US2513908, US2002129911, ITBO20110106, GB2144575, FR2544394, FR2483801, FR2444156, EP2899597, EP1364815, EP0234039, EP0234039, DE975723, DE973132, DE959481, DE951759, DE950946, DE2846363, DE2708651, DE2708651, DE2306143, DE1596841, DE1564490, DE1455848, DE1292529, DE1284317, DE1281828, DE1268477, DE1216443, DE1121234, DE1120087, DE1118895, DE1090779, DE1069674, DE1059053, DE1045557, DE1038201, DE1036799, DE1029490, DE1001762, AU2013100027,

Abstract:
Source: US2317460A 700,192. Cathode−ray tubes. STANDARD TELEPHONES and CABLES, Ltd. Feb. 23, 1951 [Feb. 28, 1950], No. 4468/51. Class 39(1) In a visual indicator, preferably a tuning indicator, comprising cathode 2, Fig. 1, and a rodlike deflecting electrode 3 for determining a shadow angle on a cup−shaped fluorescent screen 4, two positively biased plate−shaped 'counter electrodes' 1 are disposed adjacent and parallel to the cathode and symmetrically on either side of the plane containing the cathode axis and centre of the deflecting electrode. The screen 4 and counter electrodes are at high positive potentials, which may be the same, relatively to the cathode and deflecting electrode. It is stated that due to the strong fields set up between 2 and 1 and between 1 and 3 the 'shadow angle' 6 is increased to 160 degrees compared with 100 degrees in prior art constructions. A grid (not shown) at approximately cathode potential may be arranged between the cathode and the other electrodes and a screening cap 5 is also provided. In a modification, Fig. 3, the counter electrodes (not shown) are inclined and the electrodes arranged eccentrically near the periphery of the fluorescent screen 4, so that a 'shadow sector' of about 180 degrees is obtained. To make the shadow edges straight lines and so to facilitate precise reading from a scale on the fluorescent screen the rod deflecting electrode 10 is arched as shown. Electrode 10 may be of oval, prismatic or elliptical cross section. Specification 481,790 is referred to.

0) WO16162360A1 – CHAIN LINK AND LINK CHAIN MAILLON DE CHAINE ET...

18) Family number: 63735157 (WO16162360A1) © PatBase

Title: CHAIN LINK AND LINK CHAIN

Priority: DE201510206360 20150409

Family:

Publication number	Publication date	Application number	Application date
DE102015206360 A1	20161013	DE201510206360	20150409
WO16162360 A1	20161013	WO2016EP57481	20160406

Probable Assignee: BROSE FAHRZEUGTEILE

Assignee(s):(std)**:** BROSE FAHRZEUGTEILE ; BROSE FAHRZEUGTEILE GMBH AND CO COBURG KG

Inventor(s):(std)**:** HOEPPEL MICHAEL ; LANG FABIAN ; STEGERER MARIO

Agent(s): PATENTANWAELTE MAIKOWSKI AND NINNEMANN

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 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

International class (IPC 8–9): B60R22/03 B60R22/20 F16G13/20 F16G15/12 F16H19/06 (Advanced/Invention)

CPC: F16G13/20 F16H19/0636 B60R22/03

Classification Explorer

Cited documents: US553650 A, US3234698 A, US3153940 A, US2481471 A, US2010181819 AA, US2008199295 AA, US1870244 A, DE4317427 A1, DE19522092 A1, DE10325583 A1,

DE102013001030 A1

DE102009009906 A1

DE102007039680 A1

DE102004036189 A1

DE10103490 A1,

Abstract:
The invention relates to a chain link (1) for a link chain (K) that is flexible in itself. In the case of said link chain, chain links (1) connected to each other are movable in relation to each other and can be locked to each other such that the link chain (K) flexible in itself can be stiffened by locking the chain links (1) to each other. The chain link (1) has at least a first connection segment (101) for the connection to a first chain link and a further second connection segment (111) for the connection to a second chain link. According to the invention, the chain link (1) has a carrier (10) having the first connection segment (101) and has an adjustment part (11), which is supported in such a way that the adjustment part can be moved, preferably slid, in relation to the carrier (10), and which has the second connection segment (111).

0) GB2365915A – CABLE LOCK AND SEAL DEVICE

19) Family number: 14614996 (GB2365915A) © PatBase

Title: CABLE LOCK AND SEAL DEVICE

Priority: GB20000020131 20000817

Family:

Publication number	Publication date	Application number	Application date
GB200020131 A0	20001004	GB20000020131	20000817
GB200119683 A0	20011003	GB20010019683	20010813
GB2365915 A1	20020227	GB20010019683	20010813
GB2365915 B2	20040609	GB20010019683	20010813

Probable Assignee: BLOXWICH TRANSP ATION PRODUCTS

Assignee(s):(std)**:** BLOXWICH ENG ; BLOXWICH TRANSP ATION PRODUCTS

Assignee(s): BLOXWICH TRANSPORTATION PRODUCTS LIMITED ; BLOXWICH TRANSPORTATION PRODUCTS LTD ; BLOXWICH ENGINEERING LTD

Inventor(s):(std)**:** BROWN CLIVE ALBERT

Inventor(s): CLIVE ALBERT BROWN

International class (IPC 8–9)**:** F16G11/04 G09F3/03 (Advanced/Invention); F16G11/00 G09F3/03 (Core/Invention)

International class (IPC 1–7)**:** B65D33/34 F16G11/04 F16G11/14

CPC: F16G11/02 F16G11/108 F16G11/14 G09F3/0352

European class: F16G11/04 G09F3/03A6B

Classification Explorer

Cited documents: WO9318316 A1, US5222776 A, EP0861994 A2,

Forward Citations: WO06137722, FR2881560, EP1899234,

Abstract:
Source: GB2365915A A cable lock and seal device has a body 1 enclosing friction member 8 held by a spring 14 and having a through passage 21–22, and a flexible inextensible member 2 having one end 20 attached to the body, the opposite end 25 being adapted to pass through the passage and engage with the friction member 8 to prevent movement or withdrawal of the flexible member in the opposite direction. The body 1 comprises a cast or moulded casing 3 which is closed at one end and is open at the other end, and an end cover 7 adapted permanently to close the open end of the casing 3. One end of the flexible inextensible member 20 is attached to the casing 3 by being cast or moulded into the casing and is permanently connected thereto so that it projects from the closed end.

0) WO13164243A1 – TIE ROD HEAD TETE DE TIRANT

20) Family number: 55107300 (WO13164243A1) © PatBase

Title: TIE ROD HEAD

Priority: US20120641539P 20120502 WO2013EP58600 20130425

Family:

Publication number	Publication date	Application number	Application date
EP2844885 A1	20150311	EP20130720857	20130425
WO13164243 A1	20131107	WO2013EP58600	20130425

Probable Assignee: JET AVIAT AG

Assignee(s):(std)**:** JET AVIAT AG

Assignee(s): JET AVIATION AG

Inventor(s):(std)**:** MUELLER MATTHIAS

Agent(s): RENTSCH PARTNER AG; RENTSCH PARTNER ASSOC NO 254 AG

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

International class (IPC 8–9): F16B7/06 F16C7/06 F16G11/12 (Advanced/Invention)

CPC: F16C2326/43 F16G11/12 F16B7/06 F16C7/06

Classification Explorer

Cited documents: WO11057627 A1, WO06042750 A1, US4778194 A, US3866650 A, US2810595 A, GB524717 A, FR460408 A, EP1588975 B1,

DE202011051135 U1

DE202011000092 U1

DE202010008858 U1

DE202004004407 U1

Forward Citations: FR3049317,

Abstract:
The invention is directed to a tie rod head (5) comprising a shaft element (6) with an external thread (9), which in a mounted position interacts with an internal thread (14) arranged in an opening (13) of a sleeve (12). The shaft element (6) comprises at least one keyway (10) extending in axial direction. The keyway (10) is interconnected to a ratchet mechanism (11) preventing unwanted rotation of the shaft element (6) with respect to the sleeve (12).

0) WO17194666A1 – TRACKED LIFTING PLATFORM FOR VEHICLES, AND LIFT...

21) Family number: 67010894 (WO17194666A1) © PatBase

Title: TRACKED LIFTING PLATFORM FOR VEHICLES, AND LIFTING MECHANISM FOR A TRACKED LIFTING PLATFORM

Priority: DE201620102566U 20160512

Family:

Publication number	Publication date	Application number	Application date
DE202016102566 U1	20170921	DE201620102566U	20160512
WO17194666 A1	20171116	WO2017EP61307	20170511

Probable Assignee: FINKBEINER GERHARD

Assignee(s):(std)**:** FINKBEINER GERHARD

Assignee(s): FINKBEINER

Inventor(s):(std)**:** BENZ DIETER ; FINKBEINER GERHARD

Agent(s): PATENTANWAELTE MAMMEL U MASER

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 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

International class (IPC 8–9): B66F13/00 B66F3/06 B66F7/00 B66F7/10 F16G13/20 (Advanced/Invention)

CPC: B66F13/005 B66F3/06 B66F7/00

Classification Explorer

Cited documents: EP2531437 A1, EP0983897 B1,

Abstract:
Disclosed is a tracked lifting platform for vehicles (14), comprising at least two tracks (16); a lifting mechanism (18) for raising and lowering the track (16) between a basic position (19) and an operational position (12) acts at least on each end region of each track (16), said lifting mechanism (18) being equipped with a pushing column (21) that includes a plurality of pushing elements (23) which can be placed on top of each other in such a way as to be resistant to pressure in the vertical direction.

0) US3335211A – PROCESS FOR MELT SPINNING LINEAR POLYESTER MODI...

22) Family number: 25337982 (US3335211A) © PatBase

Title: PROCESS FOR MELT SPINNING LINEAR POLYESTER MODIFIED WITH AN OXYSILICON COMPOUND

Priority: FR19600831150 19600625 US19590823138 19590626 US19670621147 19670307

Family:

Publication number	Publication date	Application number	Application date
DE1260770 B	19740221	DE19601260770	19600625
DE1260770 C2	19740221	DE19601260770	19600625
FR1261056 A	19610512	FR19600831150	19600625
GB889851 A	19620221	GB19600022408	19600627
NL128092 C	00000000		00000000
NL253093 A	00000000		00000000
US3051212 A	19620828	US19590823138	19590626
US3335211 A	19670808	US19670621147	19670307

Probable Assignee: DU PONT

Assignee(s):(std)**:** DU PONT

Assignee(s): E I DU PONT DE NEMOURS AND CO ; E I DU PONT DE NEMOURS AND COMPANY ; EI DU PONT DE NEMOURS AND CO

Inventor(s):(std)**:** DANIELS WILLIAM W ; DANIELS WILLIAM WARD ; MEAD EDWARD J ; REESE CECIL E

International class (IPC 8–9)**:** B29D29/00 B60C9/00 C08G63/68 C08G63/80 C08J5/04 C08L67/02 D01F6/62 (Advanced/Invention); B29D29/00 B60C9/00 C08G63/00 C08J5/04 C08L67/00 D01F6/62 (Core/Invention)

International class (IPC 1–7)**:** B29H17/00 B60C9/00 C08C17/16 C08G63/26 C08G63/68 C08J5/04 D01F6/62 D01F6/92 F16G5/22

CPC: D01F1/10 Y10S57/902 C08J5/046 C08J5/04 B29D29/00 B60C9/0042 C08G63/68 C08G63/80 C08J2321/00 C08L67/02 D01F6/62

European class: B29D29/00 B60C9/00F C08G63/68 C08G63/80 C08J5/04 C08J5/04L C08L67/02 D01F6/62 M08J321/00

US class: 152/451 152/556 264/210.8 264/211.24 264/342R 264/342RE 474/260 474/263 524/493 525/446 528/279 528/283 528/285 528/308.2 57/902

Classification Explorer

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Forward Citations: WO9836027, WO9702372, WO8908160, WO03008478, WO03000968, US9373737, US7846544, US7189794, US6818293, US6706842, US6342578, US6214264, US6037055, US6013368, US5968649, US5817740, US5736243, US5591523, US5494993, US5478909, US5300626, US5180793, US4966740, US4839124, US4833032, US4827999, US4710155, US4374960, US4348314, US4327207, US4296640, US4197384, US4122063, US4106613, US4025592, US4016142, US3991035, US3963678, US3959215, US3919025, US3869427, US3847029, US3793132, US3525206, US3446766, US3419060, US3416383, US3413797, US3406152, US3385831, US3325333, US3256744, US3216187, US2010292375, US2009324948, US2007173585, US2004214984, US2004143054, KR100906585, JP48064223, GB2245275, GB2245275, FR2660663, FR2290511, FR2290511, EP3115409, EP2482338, EP2482337, EP2482336, EP2482335, EP2482334, EP2251371, EP1425444, EP0842312, EP0550034, EP0543298, EP0413327, EP0262824, DE4111066, DE3602490, DE3337349, DE2161967, DE19951067, DE102011009821, DE102011009820, DE102011009819, DE102011009818, DE102011009817, DE102009021566, DE10129688, BE1006532, AU738936,

Abstract:
Source: US3335211A ABSTRACT OF THE DISCLOSURE A process is disclosed for preparing and melt spinning glycol terephthalate polyester into textile fibers which provide fabrics having improved resistance to pilling.

Anhydrous polyester modified with an oxysilicon compound is prepared to have a melt viscosity at 275 degrees C. of about 1000 to 6000 poises, is melt spun to form fibers, and the fibers are exposed to moisture. Fibers are readily prepared in this way which have a relative viscosity of to 17 needed to improve the pill resistance of fabrics. This is in contrast to unmodified polyester of the same relative viscosity which has such a low melt viscosity during melt spinning, in the range of only 500 to 1000 poises, that it is quite difficult to maintain satisfactory product uniformity and freedom from filament discontinuities. Cross–references to related applications This is a continuation–in–part of our copending application Serial No. 450,197 which was filed Apr. 22, 1965, as a continuation–in–part of application Ser. No. 130,764 (now abandoned) filed Aug. 11, 1961, as a continuation–in–part of our application Ser. No. 815,808, filed May 26, 1959 (now abandoned). Specification