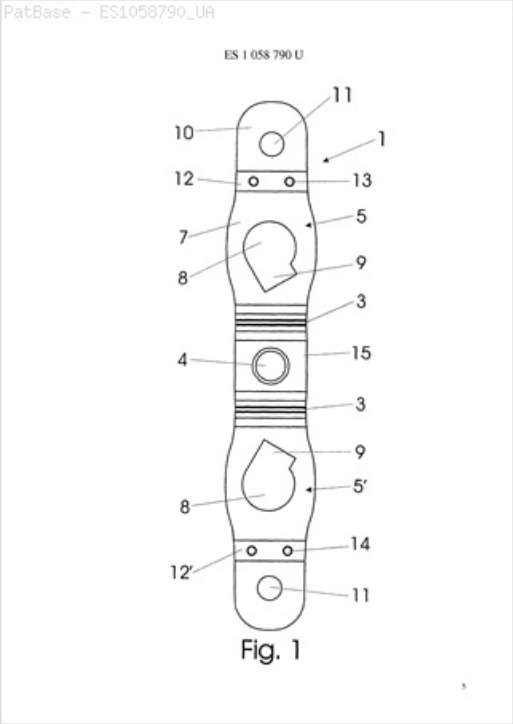
1) Family number: 34676027 (ES1058790Y)

Title: TENSOR PARA ALAMBRE Y/O CABLE.

Abstract: Source: ES1058790U [ES] 1. Tensor de cables del tipo de los que comprenden un cuerpo (1) y un rodillo tensor (2) que gira en disposicion transversal en el interior del cuerpo (1) hasta establecer una posicion de bloqueo correspondiente a la situacion de tensado del cable impidiendo su giro en sentido contrario, caracterizado porque el rodillo tensor (2) se conforma en material plastico y el cuerpo (1) se obtiene por inyeccion de material plastico dando lugar a un desarrollo laminar abierto y alargado que dispone de un sector central rectangular (15) limitado por sendos canales de debilitamiento (3) en el que esta definido un amplio orificio central (4) que constituye el lugar de paso del cable, contando a ambos lados de dicho sector central (2) con sendos sectores laterales (5, 5''), en los que se observa un primer tramo (7) que cuenta con una amplia abertura circular (8) dotada de una expansion angular (9), y a continuacion tras un ligero escalonamiento un segundo tramo (10) en el que se encuentra un orificio lateral (11) destinado a la introduccion de medios de fijacion del tensor, contando interiormente entre el primer y segundo tramo (7, 10) con unas protuberancias internas paralelepipedicas (12, 12'') que muestran en uno de los sectores laterales (5) unos tetones (13) y en el otro sector lateral (5'') unos orificios (14) en los que se introducen dichos tetones (13) tras el plegado de los sectores laterales (5, 5'') que se abaten uno hacia el otro articulados por los canales de debilitamiento (3) respecto al sector central (2) conformando el tensor a modo de horquilla, estando previsto que el rodillo tensor (2) se aloje entre las aberturas circulares (8) definidas en los sectores laterales (5, 5'') durante el plegado de dichos sectores laterales (5, 5''). **Machine translation:** 1. Cable tensioner of the type comprising a body (1) and a tensioning roller (2) rotating in transverse arrangement inside the body (1) to establish a blocking position corresponding to the tightening of the cable preventing its rotation in the opposite direction, characterized in that the tension roller (2) is formed in plastic material and the body (1) is obtained by injection of plastic material giving rise to an open and elongated laminar development has a rectangular central sector (15) limited by two separate channels of weakness (3) in which is defined a wide central hole (4) constituting the place of passage of the cable, counting on both sides of said central sector (2) with respective side sections (5, 5'), in which a first section (7) which has a wide circular opening (8) provided with an expansion (9), and then after a slight staggering a second section (10) in which a lateral hole (11) for the introduction of fixing means of the tensioner, counting internally between the first and second section (7, 10) with internal protuberances (12, 12'') parallelepiped shown in one of the side sectors (5) lugs (13) and the other lateral sector (5'') holes (14) in which are inserted said pins (13) after folding of the side sectors (5, 5'') are folded one Toward the other articulated by the channels of weakness (3) relative to the central sector (2) forming the tensioner fork, being provided that the tensioning roller (2) is housed between the circular openings (8) defined in the side sectors (5, 5'') during the folding of said side sections (5, 5'').

Classifications:
International (IPC 8-9): F16G11/12 (Advanced/Invention); F16G11/00 (Core/Invention)
International (IPC 1-7): F16G11/12



Family:

Publication number	Publication date	Application number	Application date
ES1058790 UA	20050201	ES20040002512U	20041105
ES1058790 Y1	20050516	ES20040002512U	20041105

Priority:
ES20040002512U 20041105

Probable Assignee: MOREDA RIVIERE TREFILERIAS S A

Assignee(s): (std): MOREDA RIVIERE TREFILERIAS S A ; MOREDA RIVIERE TREFILERIAS SA

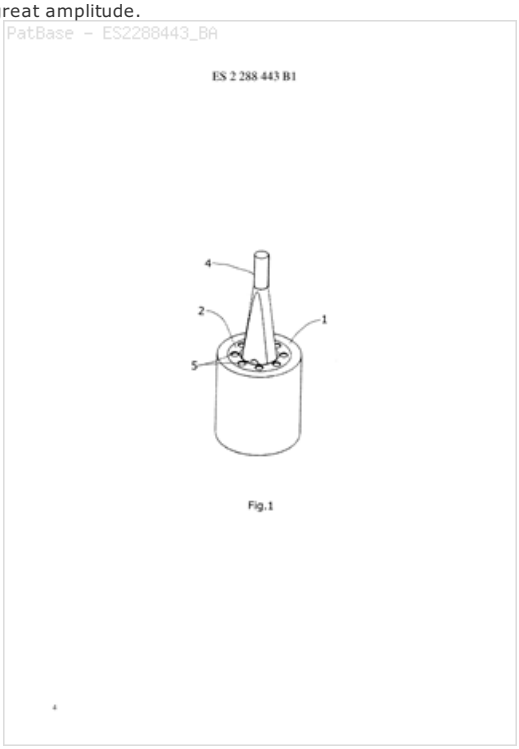
Inventor(s): (std): DIAZ PASTUR MANUEL ; MENENDEZ NOVAS FRANCISCO

2) Family number: 41114052 (ES2288443B)

Title: TENSOR DE CABLES ENCASTRABLE

Abstract: The cable has small dimensions with a traditional connector and pins, which are suppressed and provides shortening, lightening set of pieces, which compose the cable with a great amplitude.

Classifications:
International (IPC 8-9): F16G11/12 (Advanced/Invention);
F16G11/00 (Core/Invention)
CPC: F16G11/12
European: F16G11/12



Family:

Publication number	Publication date	Application number	Application date
ES2288443 AA	20080101	ES20070001900	20070705
ES2288443 BA	20080816	ES20070001900	20070705

Priority:

ES20070001900 20070705

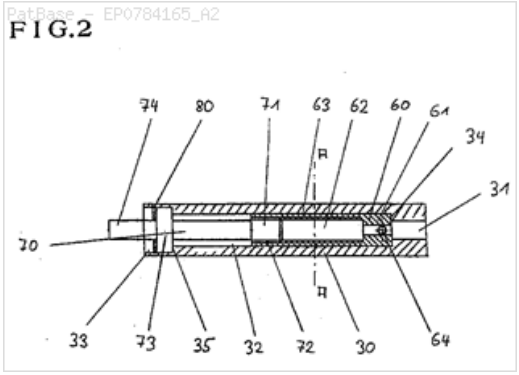
Probable Assignee: FUTURE FIBRES RIGGING SYSTEMS
Assignee(s): (std): FUTURE FIBRES RIGGING SYSTEMS
Assignee(s): FUTURE FIBRES RIGGING SYSTEMS S L U ; FUTURE FIBRES RIGGING SYSTEMS SLU
Inventor(s): (std): HUTCHINSON TOM
Inventor(s): TOM HUTCHINSON

3) Family number: 17208066 (EP0784165A2)

Title: CABLE TENSIONING DEVICE

Abstract: The device is used to tension a cable, and has a supporting component which is fastened to a wall or ceiling, and which has a threaded insertion connection (60,70). The latter has one element (70) which is similar to a screw, and another element (60) which is similar to a nut, and which has equipment (64) for fixing a tensioning cable. A sleeve element (30) is connected to the supporting component, and has a continuous bore (31,32,33) to accept the threaded insertion connection. The connecting element which does not have equipment for fixing the tensioning cable, has a head region (73,74) whose diameter is larger than that of at least a first section of the bore.

Classifications:
International (IPC 8-9): F16G11/12 (Advanced/Invention);
F16G11/00 (Core/Invention)
International (IPC 1-7): F16G11/12
CPC: F16G11/12
European: F16G11/12



Family:

Publication number	Publication date	Application number	Application date
AT183292 E	19990815	AT19970100070T	19970103
DE29600366 U1	19970626	DE19962000366U	19960110
DE59700317 D1	19990916	DE19975000317	19970103
EP0784165 A2	19970716	EP19970100070	19970103

EP0784165 A3	19970723	EP19970100070	19970103
EP0784165 B1	19990811	EP19970100070	19970103
ES2135272 T3	19991016	ES19970100070T	19970103

Priority:

DE19962000366U 19960110 DE19975000317 19970103

Probable Assignee: BUESCHE GMBH AND CO H KG

Assignee(s): (std)**:** BUSCHE GMBH AND CO KG H ; BUESCHE GMBH AND CO H KG ; BUESCHE GMBH AND CO KG H

Assignee(s): BUSCHE GMBH AND CO H KG ; H BUESCHE GMBH AND CO 58809 NEUENRADE DE KG ; H BUESCHE GMBH AND CO KG 58809 NEUENRADE DE ; H BUESCHE GMBH AND CO KG ; H BUSCHE GMBH AND CO KG

Inventor(s): (std)**:** BONGARD HANS THEO ; SCHUBERT BERND

Designated states: AT BE CH DE DK ES FI FR IT LI LU NL PT SE

4) Family number: 77630128 (CO20190013769U)

Title: TENSOR DE CABLES PARA ACOMETIDA Cable TENSIONER FOR RUSH (Machine translation)

Abstract: Source: CO20190013769U [ES] La presente invencion se refiere a tensor de cables para acometida que sujeta de manera segura un cable de fibra optica o de cualquier otro tipo, con facilidad de liberar ya que se compone de un medio de presion y un medio de alojamiento que presionan entre si el cable. **Machine translation:** The present invention relates to cable tensioner for rush securely holding a fiber optic cable or of any other type, with ease of release since it consists of a pressure means and a housing means which press the cable.

Classifications:
International (IPC 8-9): A62B1/18 F16G11/12 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
CO20190013769 U1	20200131	CO201900013769U	20191206

Priority:

MX201900000296U 20190617

Probable Assignee: MORENO QUIROGA LUIS FREDDY

Assignee(s): (std)**:** MORENO QUIROGA LUIS FREDDY

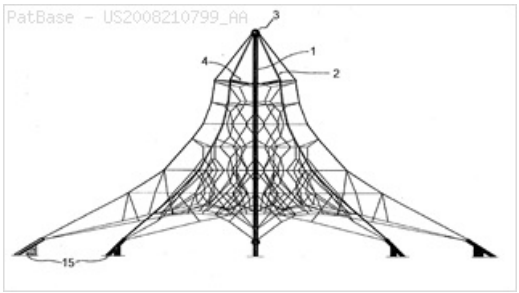
Inventor(s): (std)**:** MORENO QUIROGA LUIS FREDDY

5) Family number: 33472203 (US2008210799A)

Title: SPREADING DEVICE FOR ROPE NETWORKS

Abstract: The invention relates to a rope spreading device for rope networks with tensioning ropes that converge at a top point of a support mast at an acute angle. It is an object of the invention to overcome the lack of play space, while making it also possible to vary the tension of the tensioning ropes. Accordingly, a rope spreading device is provided for rope networks with tensioning ropes that converge at a top point of a support mast at an acute angle, wherein the device is characterized in that at least one rope spreader is arranged between a tensioning rope and a support mast. The rope spreader changes the path of the tensioning rope so that a greater usable volume is created between the tensioning ropes and the central support mast, which can be used for climbing and play. Advantageously, the rope spreader may be used to vary the degree of spreading and the tension of the tensioning ropes.

Classifications:
International (IPC 8-9): A63B17/00 A63B9/00 B65H77/00 B65H99/00 E04H12/20 F16G11/12 (Advanced/Invention); A63B9/00 B65H77/00 B65H99/00 E04H12/00 F16G11/00 (Core/Invention)
CPC: A63G31/00 E04H15/18 A63B9/00 A63B2009/004 A63B2009/006 F16G11/12
European: A63B9/00 E04H15/18 F16G11/12 K63B9/00N K63B9/00P K63G31/00
US: 114/89 242/147.00RP 242/147R 482/35 482/36 D21/814



Family:

Publication number	Publication date	Application number	Application date
AT441464 E	20090915	AT20060742672T	20060413
AT470486 E	20100615	AT20060724546T	20060413
CA2604930 AA	20071012	CA20062604930	20060413
CA2604930 C	20131001	CA20062604930	20060413
CA2604931 AA	20071012	CA20062604931	20060413
CA2604931 C	20131001	CA20062604931	20060413
CN101184538 A	20080521	CN200680016667	20060413
CN101184538 B	20120523	CN200680016667	20060413
CN101189047 A	20080528	CN200680016665	20060413
CN101189047 B	20100908	CN200680016665	20060413
DE102006018860 A1	20061228	DE200610018860	20060413
DE102006018861 A1	20070215	DE200610018861	20060413
DE202006006528 U1	20061012	DE200620006528U	20060413
DE202006006529 U1	20060907	DE200620006529U	20060413
DE502006004744 D1	20091015	DE200650004744T	20060413

DE502006007170 D1	20100722	DE200650007170T	20060413
DK1871490 T3	20101011	DK20060724546T	20060413
EP1871490 A1	20080102	EP20060724546	20060413
EP1871490 B1	20100609	EP20060724546	20060413
EP1871491 A1	20080102	EP20060742672	20060413
EP1871491 B1	20090902	EP20060742672	20060413
ES2347347 T3	20101028	ES20060724546T	20060413
PL1871490 T3	20101130	PL20060724546T	20060413
US2008210799 AA	20080904	US20060911396	20060413
US2009212146 AA	20090827	US20060911390	20060413
US8083648 BB	20111227	US20060911396	20060413
US8113992 BB	20120214	US20060911390	20060413
WO06108715 A1	20061019	WO2006EP03784	20060413
WO06108716 A1	20061019	WO2006EP03785	20060413

Priority:

DE200510017774 20050413	DE200510017774 20050413	DE200520006174U 20050413
DE200510026412 20050603	DE200520009003U 20050603	DE200620004853U 20060322
DE200620004853U 20060322	DE200610018860 20060413	WO2006EP03784 20060413
WO2006EP03785 20060413	DE200610018861 20060413	DE200620006529U 20060413
DE200620006528U 20060413	EP20060724546 20060413	

Probable Assignee: BERLINER SEILFABRIK GMBH AND CO

Assignee(s): (std): BERLINER SEILFABRIK GMBH AND CO ; BERLINER SEILFABRIK GMBH CO ; KOEHLER KARL HEINZ

Assignee(s): BERLINER SEILFABRIK GMBH

Inventor(s): (std): KOEHLER KARL HEINZ ; KA HLER KARL HEINZ ; KIHLER KARL HEINZ ; KARL HEINZ KOEHLER ; KOHLER KARL HEINZ

Agent(s): DEETH WILLIAMS WALL LLP; GULDE KLAUS W ET AL; NORRIS MCLAUGHLIN AND MARCUS PA

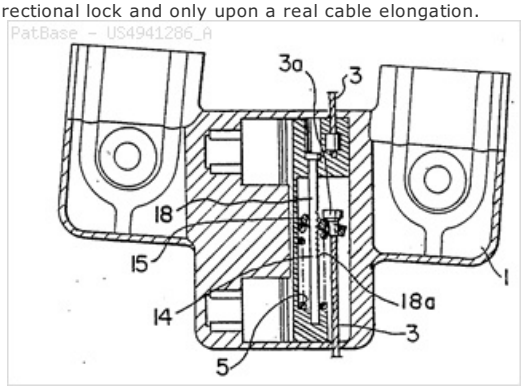
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG 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

6) Family number: 3513205 (US4941286A)

Title: TENSIONING DEVICE FOR CABLE WINDOW LIFTER

Abstract: The invention concerns a tensioning device for the cable of a cable window lifter which is mounted in a drive bracket pulled up and down along a guide rail by means of a cable wound around an actuation drum. One cable end is solidly joined to the drive bracket whereas the other cable end is connected by a directional lock to the drive bracket. This directional lock compensates any cable elongation taking place within the cable actuation system by means of spring action. The tensioning device of the invention is characterized by providing further compensating means. This further compensation is needed in the event of excessive stresses exerted on the cable actuation system in the closed window position which results in a spurious cable elongation caused thereby. It also eliminates this compensation when this excess stress is no longer present. These further compensation means may consist of a spring additionally inserted between the free cable end and the directional lock; however they may also consist of a tippable and displaceable molded part inside the directional lock. The spring compensates the spurious cable elongation by relaxing before the actual compensation spring becomes effective. In the embodiments with the additionally inserted molded part, the compensation of the spurious elongation takes place by tipping the molded part which slips further by one step (cog) in the directional lock and only upon a real cable elongation.

Classifications:
International (IPC 8-9): E05F11/48 F16C1/14 F16C1/22 (Advanced/Invention); E05F11/38 F16C1/10 (Core/Invention)
International (IPC 1-7): E05F11/48 E05F13/00 F16C1/14 F16C1/16 F16C1/22 F16G11/12
CPC: E05Y2201/47 E05Y2201/654 E05Y2600/13 E05Y2600/33 E05F11/483 E05F11/485 E05Y2900/55 F16C1/22
European: E05F11/48B2B F16C1/22 P05F11/48B2 P05Y201/47 P05Y201/654 P05Y600/13 P05Y600/33 P05Y900/550
US: 474/101 49/352



Family:

Publication number	Publication date	Application number	Application date
CA1308706 A1	19921013	CA19890609774	19890830
DE3829680 A1	19891116	DE19883829680	19880901
DE3829680 C2	19900405	DE19883829680	19880901
ES2014913 AF	19900716	ES19890003005	19890901
GB2223797 A1	19900418	GB19890019255	19890824
GB2223797 B2	19920819	GB19890019255	19890824
GB8919255 A0	19891004	GB19890019255	19890824
JP2016134 C3	19960219	JP19890224755	19890901
JP2140382 A2	19900530	JP19890224755	19890901
JP7049745 B4	19950531	JP19890224755	19890901
KR19910006594 A	19910429	KR19890012640	19890901
KR930001634 B1	19930308	KR19890012640	19890901
US4941286 A	19900717	US19890400546	19890831
US4984386 A	19910115	US19900514305	19900425

Priority:

DE19883812961 19880419 DE19883829680 19880901 CA19890609774 19890830
US19890400546 19890831

Probable Assignee: KUESTER AND CO

Assignee(s): (std): KUESTER AND CO ; KUESTER AND CO GMBH ; MARSCHOLL KLAUS ; KOSTER AND CO GMBH

Assignee(s): KUSTER AND CO ; KUSTER AND CO GMBH ; KUESTER AND CO GMBH 6332 EHRINGSHAUSEN DE ; MEDEBACH THOMAS

Inventor(s): (std): MARSCHOLL KLAUS ; MEDEBACH THOMAS ; MARSCOLL KLAUS ; EDEBACH THOMAS ; TOOMASU MEEDEBATSUHA ; KURAUSU MAASHIYORU

Inventor(s): KLAUS MARSCHOLL ; THOMAS MEDEBACH ; MARSCHOLL KLAUS 6332 EHRINGSHAUSEN DE ; MEDEBACH THOMAS 6330 WETZLAR DE

Agent(s): BORDEN LADNER GERVAIS LLP

7) Family number: 34676288 (EP1669268A1)

Title: CABLE TENSIONER FOR A VEHICLE HAND BRAKE

Abstract: Cable tensioner for a vehicle hand brake, comprising the hand brake (1), a lever (2) to tighten or slacken at least one cable (3), so that said hand brake (1) moves to a braking or brake release position. The cable tensioner comprises a cable equalizer (4) where the cable (3) is hooked, a threaded shaft (5) that pushes said cable equalizer (4), and an actuator (6) connected to the lever (2) and threaded onto the threaded shaft (5), so that by the operating of the lever (2) said threaded shaft (5) moves axially. Moreover, said cable tensioner comprises a nut or hexagonal head (7) to adjust the distance between the actuator (6) and the cable equalizer (4), thereby adjusting the tension of the cable (3).

Classifications:
International (IPC 8-9): B60T17/00 B60T7/10 F16G11/12 (Advanced/Invention); B60T17/00 B60T7/02 F16G11/00 (Core/Invention)
International (IPC 1-7): B60T17/00 F16G11/12
CPC: B60T7/108
European: B60T7/10G

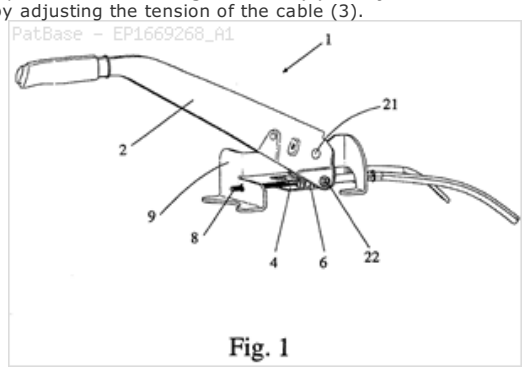


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
AT423709 E	20090315	AT20050380263T	20051202
DE602005012911 D1	20090409	DE200560012911T	20051202
EP1669268 A1	20060614	EP20050380263	20051202
EP1669268 B1	20090225	EP20050380263	20051202
ES1059056 UA	20050301	ES20040002792U	20041213
ES1059056 Y	20050616	ES20040002792U	20041213
ES1059056 Y1	20050616	ES20040002792U	20041213
ES2319792 T3	20090512	ES20050380263T	20051202

Priority:

ES20040002792U 20041213

Probable Assignee: BATZ S COOP

Assignee(s): (std): BATZ S COOP

Assignee(s): BATZ SCOOP

Inventor(s): (std): PALACIO ARGUELLES JOSEBA ; INTXAURBE IRIONDO JATSU ; PALACIO ARGUEELLES JOSEBA

Agent(s): IGARTUA ISMAEL

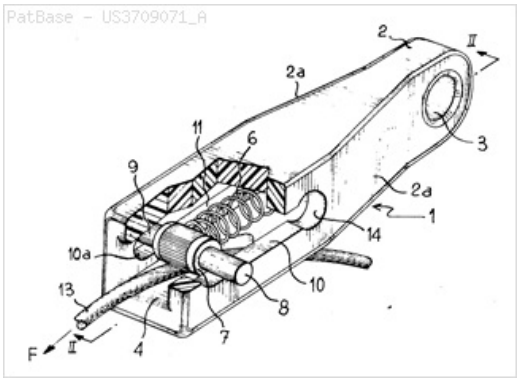
Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

8) Family number: 110521 (US3709071A)

Title: CABLE-TIGHTENING DEVICE

Abstract: A cable-tightening device of the kind in which the cable is wedged between two parts which are clamped against each other when a tractive pull is applied in one direction on the cable, while the latter is free to slide through the device when the direction of the pull is reversed, comprising a tubular casing having a wall traversed by an oblique channel located in a radial plane and intended for the passage of the cable, and a cylindrical rotatable plug with longitudinal nipples mounted inside the tubular casing and elastically urged towards the cable-channel outlet, the longitudinal chamber formed inside the casing having a quadrilateral section and the diameter of the plug being slightly less than the dimension of the quadrilateral section in said radial plane.

Classifications:
International (IPC 8-9): F16G11/10 H02G7/02 (Advanced/Invention); F16G11/00 H02G7/02 (Core/Invention)
International (IPC 1-7): B66D1/60 B66D3/02 F16F F16G11/00 F16G11/04 F16G11/10 F16G11/12 F16L11/00 H02G7/02
CPC: Y10T24/3976 F16G11/101 F16G11/108 F16G11/106
European: F16G11/10
US: 24/136A 81/0.3J 81/487



Family:

Publication number	Publication date	Application number	Application date
BE751006 A	19701103		00000000
BE751006 A1	19701103	BE19700751006	19700527
CH527381 A	19720831	CH19700008180	19700601
DE1951448 A1	19701210	DE19691951448	19691013
DE1951448 B2	19751113	DE19691951448	19691013
DE1951448 C3	19760708	DE19691951448	19691013
DE2052385 A1	19710429	DE19702052385	19701026
DE2052385 B2	19781214	DE19702052385	19701026
DE2052385 C3	19790809	DE19702052385	19701026
ES380152 A1	19720816	ES19700380152	19701027
FR2025335 A5	19700904	FR19690036951	19691028
FR2032563 A5	19701127	FR19690017990	19690602
GB1267299 A	19720315	GB19700026534	19700602
JP50019196 B4	19750704	JP19700046988	19700602
NL166525 B	19810316	NL19700007994	19700602
NL166525 C	19810817	NL19700007994	19700602
NL7007994 A	19701204	NL19700007994	19700602
US3709071 A	19730109	US19700041805	19700601

Priority:

FR19690017990 19690602 FR19690036951 19691028

Probable Assignee: ZAFIRA FRANCE

Assignee(s): (std): MORANSAIS CHARLES ; BOISSE ; FRANCE ZAPIRA ; R T JOSEPH ; ZAFIRA FRANCE

Assignee(s): ZAFIRA FRANCE SARL ; LA BOISSE AIN ; CHARLES MORANSAIS ; ZAFIRA FRANCE FR ; ZAFIRA FRANCE S A R L ; LA BOISSE AIN FRANKREICH ; ZAFIRA FRANCE SOC ŸA RESPONSABILITE LIMITEE EN CHARLES MORANSAIS BEIDE LA BOISSE FRANKRIJK ; ZAPIRA FRANCE ; ZAFIRA FRANCE SOCIETE ŸA RESPONSABILITE LIMITEE EN CHARLES MORANSAIS BEIDE LA BOISSE FRANKRIJK ; ZAFIRA FRANCE SOCIETE ŸA RESPONSABILITE LIMITEE EN CHARLES MORANSAIS BEIDE TE LA BOISSE FRANKRIJK ; ZAFIRA FRANCE SOC ŸA RESPONSABILITE LIMITEE EN CHARLES MORANSAIS BEIDE TE LA BOISSE FRANKRIJK

Inventor(s): (std): MORANSAIS CHARLES ; CHARLES MORANSAIS ; FRANCE ZAPIRA ; MORANSAIS C

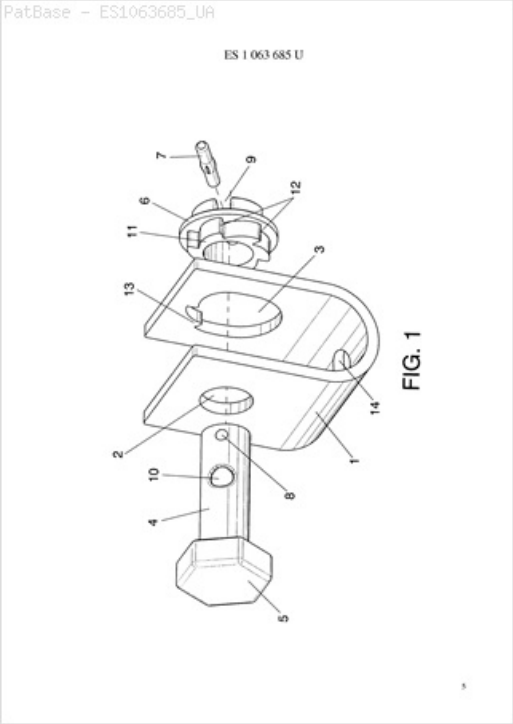
Inventor(s): ZAPIRA FRANCE ; MORANSAIS C FR ; MORANSAIS CHARLES LA BOISSE AIN FRANKREICH ; MORANSAIS CHARLES LA BOISSE AIN

9) Family number: 34622621 (ES1063685Y)

Title: TENSOR DE CABLE, ALAMBRE Y SIMILARES

Abstract: Source: ES1063685U [ES] 1. Tensor de cable, alambre y similares, que estando previsto para realizar el tensado de, por ejemplo, un cable, un alambre, una cuerda o similares, se caracteriza porque se constituye a partir de un soporte (1), preferentemente en "U", entre cuyas ramas laterales va montado un eje 4 con facultad de giro e impedido de desplazamiento axial, a cuyo eje (4) se vincula el extremo del elemento a tensar; habiendose previsto que el eje de giro (4) presenta en uno de sus extremos una cabeza (5) de tope axial y de accionamiento para el giro del mismo, mientras que sobre el extremo opuesto va montada una roseta (6) de tope axial, dotada de un cuello (11) con un dentado (12) en rampa que permite el giro del eje (4) en sentido de tensado e impide el giro en sentido opuesto, por enclavamiento de uno de los dientes (12) en una muesca (13) establecida al efecto en un punto del contorno correspondiente al orificio (3) de la rama lateral del soporte (1) en el que va situada dicha roseta (6), quedando estaretenida en posicion axial mediante un pasador (7) que atraviesa diametralmente un orificio (8) del extremo del eje (4) y se ubica por sus extremos en sendas escotaduras (9) previstas en una parte externa de la roseta (6), con la particularidad de que la extraccion de tal pasador (7) conlleva la liberacion del eje (4) y correspondiente destensado del cable o similar. **Machine translation:** 1. Tensioning cable, wire and the like, being provided to perform the tensioning of, for example, a cable, a wire, a rope, or the like, characterized because it is constituted from a support (1), preferably in "U", between whose lateral branches shaft 4 is mounted with the power of rotation and prevented from axial displacement, whose axis (4) is linked to the end of the tensioning element; it being provided that the axis of rotation (4) presents at one of its ends a head (5) of axial stop and drive for the rotation of the same, while on the opposite end is mounted a rosette (6) axial abutment, provided with a neck (11) with a toothing (12) in Ramp that allows the rotation of the shaft (4) in the direction of tensioning and prevents rotation in the opposite direction, for locking of one of the teeth (12) in a notch (13) established for this purpose in a point of the contour corresponding to the hole (3) of the side branch of the support (1) in which is located said rosette (6), leaving the estaretenida in axial position by a pin (7) passing through a hole (8) diametrically of the end of the shaft (4) and is located at its ends in respective recesses (9) provided in an outer part of the rosette (6), with the particularity that the extraction of such pin (7) leads to the release of the shaft (4) and corresponding slack cable or Like.

Classifications:
International (IPC 8-9): F16G11/12 (Advanced/Invention);
F16G11/00 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
ES1063685 UA	20061116	ES20060001974U	20060906
ES1063685 Y1	20070216	ES20060001974U	20060906

Priority:

ES20060001974U 20060906

Probable Assignee: APRESA PLP SPAIN S A

Assignee(s): (std)**:** APRESA PLP SPAIN S A

Assignee(s): APRESA PLP SPAIN SA

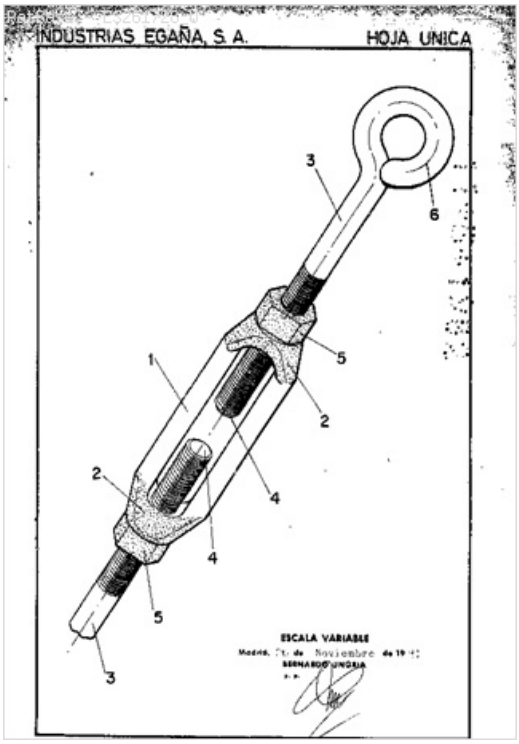
Inventor(s): (std)**:** RIVERO GARCIA JOSE ANTONIO

10) Family number: 29442701 (ES261728Y)

Title: TENSOR PERFECCIONADO PARA CABLES Y SIMILARES.

Abstract: Source: ES261728U [ES] 1.Tensor perfeccionado para cables y similares, que siendo del tipo de los que se configuran segun un anillo considerablemente alargado en cuyos extremos se definen cabezas taladradas coaxialmente y con sus taladros roscados en oposicion, de forma que el giro en un determinado sentido del anillo provoca la aproximacion a su centro de los vastagos roscados acoplados a sus taladros provocando la tension perseguida, esencialmente se caracteriza porque dichas cabezas adoptan exteriormente una configuracion prismatica poligonal, preferentemente hexagonal, coaxial con su propio taladro, en orden a permitir el accionamiento del anillo mediante la correspondiente llave. 2.Tensor perfeccionado para cables y similares. **Machine translation:** 1.Tensor perfected for cables and similar, which being of the type which are configured according to a substantially elongated heads ring whose ends are defined drilled coaxially and with threaded bores in opposition, so that the rotation in a determined sense ring causes the approach to the center of threaded rods coupled to their holes causing the intended voltage, essentially characterized because said heads outwardly adopt a prismatic polygonal, preferably hexagonal, coaxial with its own bore, in order to allow actuation ring by the wrench. 2.Tensor perfected for cables and the like.

Classifications:
International (IPC 8-9): F16G11/12 (Advanced/Invention);
F16G11/00 (Core/Invention)
International (IPC 1-7): F16G11/12



Family:

Publication number	Publication date	Application number	Application date
ES261728 U	19820901	ES19810261728U	19811126
ES261728 Y	19830316	ES19810261728U	19811126

Priority:

ES19810261728U 19811126

Probable Assignee: INDUSTRIAS EGANA SA

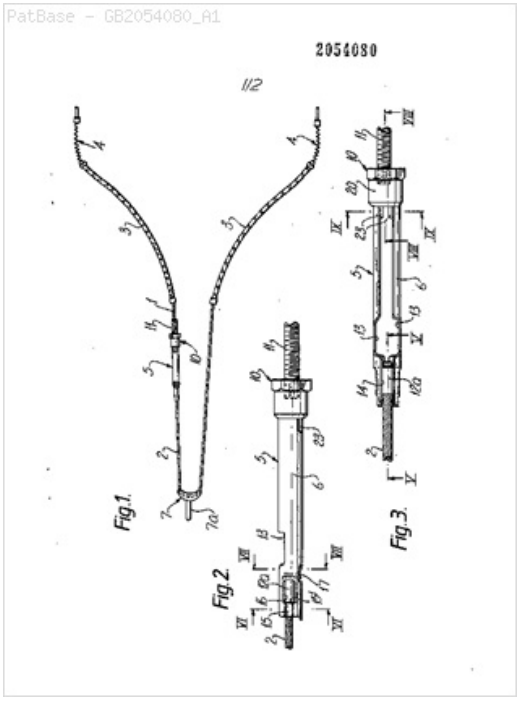
Assignee(s): INDUSTRIAS EGANA S A ; INDUSTRIAS EGANA SA

11) Family number: 1813790 (GB2054080A)

Title: Improvements in or relating to turnbuckle connections

Abstract: This invention provides a turnbuckle connector by which two cables 1 and 2 may be connected together endwise. One cable 1 has an externally threaded portion 11 at its end and this portion is received within the nut 10 that is captively held on the barrel 6. A flange 22 on a crown portion 20 extending from the nut 10 is forced over the resilient shoulders formed on the barrel 6. The nut 10 is loosely held so that it can swivel on the barrel 6. The other cable 2 is held by a button connection 12a.

Classifications:
International (IPC 8-9): B60T11/04 F16B7/06
F16G11/12 (Advanced/Invention);
B60T11/00 F16G11/00 (Core/Invention)
International (IPC 1-7): B60T11/04 F16B7/06 F16D65/46 F16G11/12
CPC: F16G11/12 B60T11/046
European: B60T11/04D F16G11/12



Family:

Publication number	Publication date	Application number	Application date

CA1167295 A1	19840515	CA19800356354	19800716
DE3026401 A1	19810212	DE19803026401	19800711
ES493388 A0	19810216	ES19800493388	19800715
ES493388 A2	19810309	ES19800493388	19800715
ES8103309 A1	19810216	ES19800493388	19800715
FR2461856 A1	19810206	FR19800015646	19800715
GB2054080 A1	19810211	GB19800022841	19800711
GB2054080 B2	19840229	GB19800022841	19800711
JP56050840 A2	19810508	JP19800096308	19800716

Priority:

US19790057985 19790716 CA19800356354 19800716

Probable Assignee: ACCO IND INC

Assignee(s): (std): ACCO IND INC

Assignee(s): ACCO INDUSTRIES INC ; SEVRENCE WARREN E

Inventor(s): (std): SEVRENCE WARREN EDWARD ; SEVRENCE WARREN E ; UOOREN EDOWAADO SEBURENSU

Inventor(s): WARREN EDWARD SEVRENCE ; EDWARD SEVRENCE WARREN

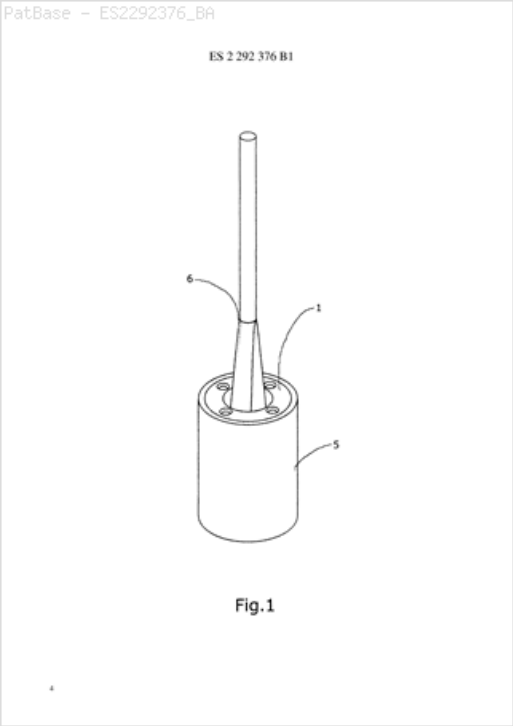
Agent(s): FETHERSTONHAUGH AND CO

12) Family number: 41571797 (ES2292376B)

Title: TENSOR DE CABLES ENCASTRABLE PERFECCIONADO.

Abstract: The tensor cables has small dimensions, which incorporates a pin on an end of the cable terminal that houses inside two jaws to fit with each other, and that is housed inside the a tube.

Classifications:
International (IPC 8-9): F16G11/12 (Advanced/Invention);
F16G11/00 (Core/Invention)
CPC: F16G11/12
European: F16G11/12



Family:

Publication number	Publication date	Application number	Application date
ES2292376 AA	20080301	ES20070002482	20070919
ES2292376 BA	20081016	ES20070002482	20070919

Priority:

ES20070002482 20070919

Probable Assignee: FUTURE FIBRES RIGGING SYSTEMS

Assignee(s): (std): FUTURE FIBRES RIGGING SYSTEMS

Assignee(s): FUTURE FIBRES RIGGING SYSTEMS SLU

Inventor(s): (std): HUTCHINSON TOM

Inventor(s): TOM HUTCHINSON

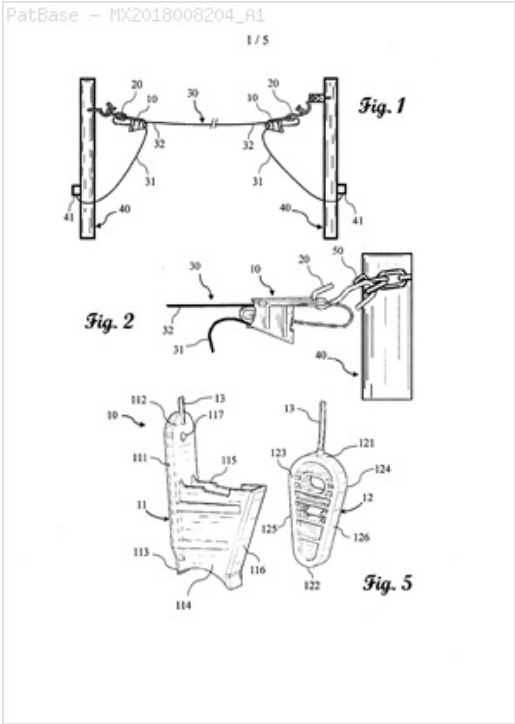
13) Family number: 72617857 (MX2018008204A)

Title: TENSOR CABLE CONNECTION FOR MOUNTING IN AEREO INSTALLATIONS.

Abstract: The present invention relates to a cable tensioner, particularly, copper or fiber optic for assembly in Aereo installations designed for preventing loosening of cable ends, usually because of environmental conditions. The tensioner comprises a main body with an internal housing, thereby allowing inserting a V-shaped wedge. The installation of a cable into the inner housing forms a loop surrounding the wedge periphery, thus forming two ends thereof. Said ends are located between the inner housing and the wedge. The wedge includes a flexible finger elongated with a protrusion designed to

anchor with a lower edge of the inner housing. The anchoring of the elongated finger prevents the release of the wedge from the main body.

Classifications:
International (IPC 8-9): F16M13/02 H02G3/22 H02G7/05 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
MX2018008204 A1	20181010	MX20180008204	20180629

Priority:

MX20180008204 20180629

Probable Assignee: WILLIAM PEREZ DAVILA

Assignee(s): (std)**:** WILLIAM PEREZ DAVILA

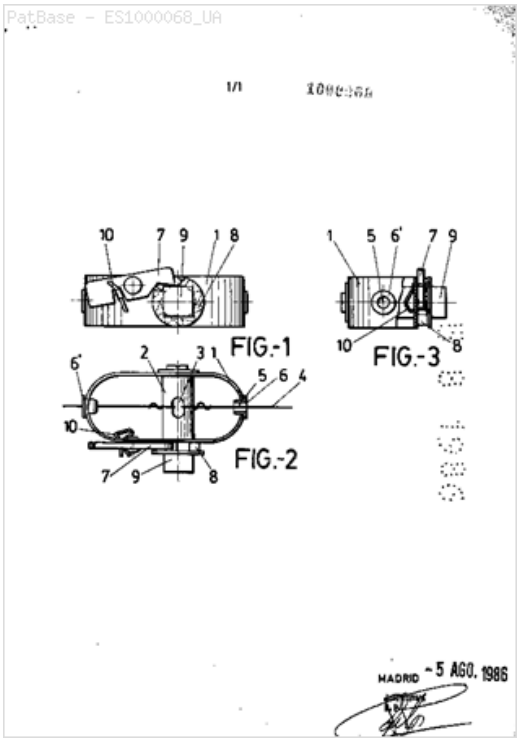
Inventor(s): (std)**:** WILLIAM PEREZ DAVILA

14) Family number: 4494926 (ES1000068U)

Title: TENSOR PARA CABLES TENSOR CABLE (Machine translation)

Abstract: Source: ES1000068U [ES] TENSOR PARA CABLES, EN ESPECIAL DE CABLES PARA VALLAS, ESENCIALMENTE SE CARACTERIZA PORQUE INCORPORA UN SOPORTE EN EL QUE SE MONTA TRANSVERSALMENTE UN EJE DOTADO DE MEDIOS DE ACCIONAMIENTO EN SENTIDO GIRATORIO, EJE QUE ES ATRAVESADO POR EL CITADO CABLE, DE MANERA QUE UN GIRO SUMINISTRADO AL MISMO, PROVOCA UN PROGRESIVO ARROLLAMIENTO DEL CABLE CON SU CORRESPONDIENTE TENSADO, HABIENDOSE PREVISTO LA EXISTENCIA DE MEDIOS DE RETENCION PARA EL CITADO EJE. **Machine translation:** TENSOR CABLE, SPECIAL CABLE FOR FENCES, ESSENTIALLY IS DEFINED FOR ADDS A STAND IN WHICH CROSS RIDING A GIFTED MEDIA DRIVE SHAFT ROTATING CLOCKWISE, HUB which is crossed CITED BY CABLE, SO PROVIDED A TURN TO THE SAME, PROGRESSIVE CAUSES A WINDING WIRE FOR YOUR TENSION, being provided EXISTENCE OF RETENTION MEANS FOR QUOTED AXLE.

Classifications:
International (IPC 8-9): F16G11/12 (Advanced/Invention);
F16G11/00 (Core/Invention)
International (IPC 1-7): F16G11/12



Family:

Publication number	Publication date	Application number	Application date
ES1000068 UA	19880101	ES19860000221U	19860805

Priority:

ES19860000221U 19860805

Probable Assignee: APELLANIZ ALBENIZ JUAN CARLOS

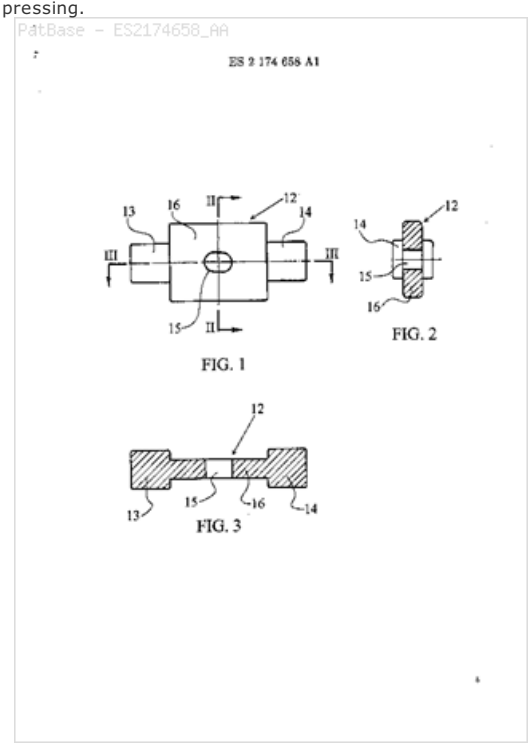
Assignee(s): APELLANIZ ALBENIZ JUAN CARLOS

15) Family number: 24154933 (ES2174658A)

Title: CABLE TENSIONING DEVICE.

Abstract: Cable tensioner.The tensioner is the type that includes a surrounding external body of steel banding whose lateral arms have threads for the rotary pin that tightens the cable and means for fixing to an external point, comprising a one-piece tensioner shaft with expanded ends forming edges of conjugate angles with the angles of the openings in the lateral arms of the tensioner mounting. The one-piece shaft also includes a central flat part with a hole for the cable to pass, the said central part and hole being produced at the same time by cold bending and pressing.

Classifications:
International (IPC 8-9): F16G11/12 (Advanced/Invention); F16G11/00 (Core/Invention)
International (IPC 1-7): F16G11/12
CPC: F16G11/02 F16G11/025 F16G11/12



Family:

Publication number	Publication date	Application number	Application date

ES2174658 AA	20021101	ES19990000241	19990205
ES2174658 BA	20040901	ES19990000241	19990205

Priority:

ES19990000241 19990205

Probable Assignee: ESPADALER TUBAU ERNESTO

Assignee(s): (std)**:** ESPADALER TUBAU ERNESTO

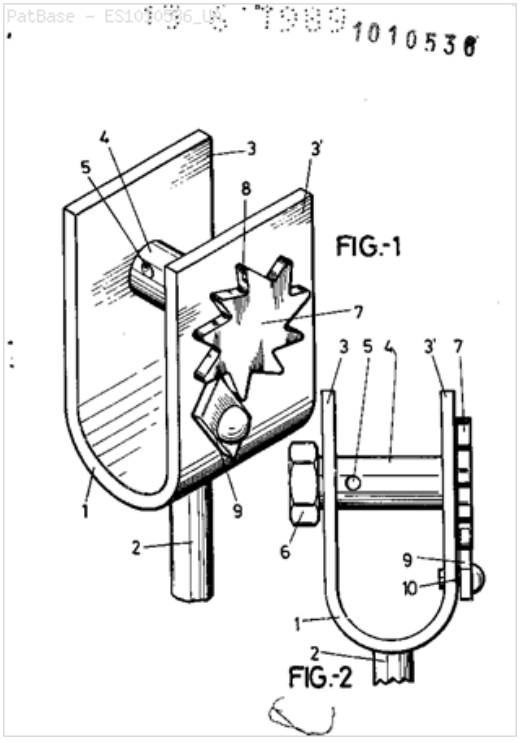
Inventor(s): (std)**:** ESPADALER TUBAU ERNESTO

16) Family number: 17220949 (ES1010536Y)

Title: DISPOSITIVO TENSOR DE CABLES PARA INVERNADEROS.

Abstract: Source: ES1010536U [ES] DISPOSITIVO TENSOR DE CABLES PARA INVERNADEROS, ESENCIALMENTE CARACTERIZADO POR ESTAR CONSTITUIDO A PARTIR DE UNA ROBUSTA PLETINA DE CONFORMACION EN "U", DETERMINANTE DE UNA ESPECIE DE HORQUILLA A CUYA RAMA MEDIA SE FIJA UNVASTAGO EN FUNCIONES DE ELEMENTO SOPORTE Y DOTADO DE CUALQUIER MEDIO DE FIJACION CONVENCIONAL, MIENTRAS QUE ENTRE SUS RAMAS LATERALES SE ESTABLECE UN BULON, MONTADO CON LIBERTAD DE GIRO PERO INMOVILIZADO AXIALMENTE, BULON QUE POR UNO DE SUS EXTREMOS Y POR FUERA DE LA CITADA HORQUILLA SE REMATA EN UNA CABEZA POLIGONAL DE ACCIONAMIENTO DEL MISMO, MIENTRAS QUE POR SU OTRO EXTREMO Y TAMBIEN FUERA DE LA HORQUILLA LO HACE EN UNA ESTRELLA O CORONA DENTADA, CON LA QUE COLABORA UN TRINQUETE, MATERIALIZADO EN UNA PEQUENA PLETINA RECTANGULAR, MONTADA BASCULANTEMENTE SOBRE LA PROPIA RAMA LATERAL DE LA HORQUILLA CON LA COLABORACION DE UN PASADOR, CON SUS EXTREMOS CONVENIENTEMENTE REMACHADOS, CONLA PARTICULARIDAD DE QUE DICHO TRINQUETE ESTA UBICADO CON RESPECTO A LA ESTRELLA O CORONA DENTADA DE MANERA QUE PERMITE EL LIBRE GIRO DE LA MISMA EN SENTIDO DE TRACCION SOBRE EL CABLE, Y TIENDE A SU BLOQUEO CUANDO EL SENTIDO DE GIRO ES CONTRARIO, HABIENDOSE PREVISTO ADEMAS QUE EL CITADO BULON INCORPORE UN ORIFICIO PARA FIJACION DE LA EXTREMIDAD CORRESPONDIENTE DEL CABLE, SITUADO ENTRE LAS DOS RAMAS DE LA HORQUILLA Y PREFERENTEMENTE DESFASADO HACIA UNA DE DICHAS RAMAS. **Machine translation:** Cable tensioning device for greenhouses, essentially characterized by being formed from a robust plate forming "U", DETERMINING A KIND OF FORK ON WHOSE MIDDLE BRANCH IS FIXED UNVASTAGO SUPPORT ELEMENT AND PROVIDED WITH ANY conventional fixing, WHILE BETWEEN ITS SIDE BRANCHES A BOLT IS SET, MOUNTED WITH FREEDOM OF ROTATION BUT IMMOBILIZED axially, BOLT BY ONE OF ITS ENDS AND OUT OF SAID fork ends in a polygonal head actuation THEREOF, WHILE ITS OTHER END AND ALSO OUTSIDE THE FORK IN A STAR OR RING GEAR, with which collaborates a ratchet, materialized IN A SMALL PLATE RECTANGULAR, MOUNTED SWINGABLY ON THE SIDE BRANCH OF THE FORK WITH THE COLLABORATION OF A PIN, with their ends conveniently riveted, withthe particularity that said PAWL IS LOCATED WITH RESPECT TO THE STAR OR RING GEAR SO THAT ALLOWS FREE ROTATION THEREOF IN THE DIRECTION OF TRACTION ON THE CABLE, AND TENDS TO ITS LOCKING WHEN THE DIRECTION OF ROTATION IS CONTRARY, HAVING BEEN FURTHER PROVIDED THAT SAID BOLT INCORPORATES A HOLE FOR FIXING THE CORRESPONDING END OF THE CABLE, located between the two arms of the fork and preferably offset toward one of said branches.

Classifications:
International (IPC 8-9)**:** A01G9/22 F16G11/12 (Advanced/Invention); A01G9/22 F16G11/00 (Core/Invention)
International (IPC 1-7)**:** A01G9/22 F16G11/12
CPC: Y02A40/258



Family:

Publication number	Publication date	Application number	Application date
ES1010536 UA	19900101	ES19890001915U	19890613
ES1010536 Y1	19900616	ES19890001915U	19890613

Priority:

ES19890001915U 19890613

Probable Assignee: INSTALACIONES AGRICOLAS YELO S L

Assignee(s): (std)**:** INSTALACIONES AGRICOLAS YELO S L

Assignee(s): INSTALACIONES AGRICOLAS YELO SL

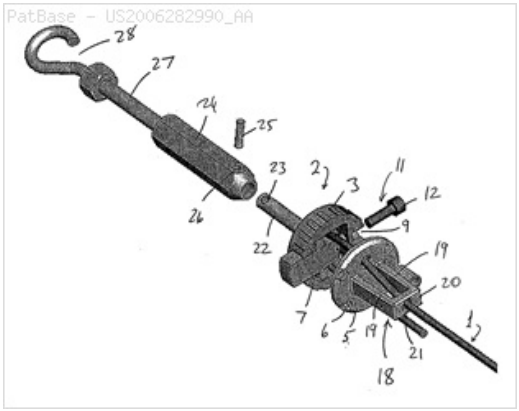
Inventor(s): (std)**:** YELO VILLALBA JOSE ANTONIO

17) Family number: 34021952 (US2006282990A)

Title: ROPE TENSIONER

Abstract: A rope tensioner is used, for example, to connect a rope 1 under tension to a safety switch whereby the switch operates, e.g., to turn off power to machinery guarded or bounded by the rope in the event that the rope tension departs significantly from a predetermined value. The rope tensioner ensures a firm gripping of the rope 1 reducing risk of the rope 1 slipping and losing the required tension. The rope tensioner comprises to this end a housing 2 with passageways 16,17 to receive the rope 1 running between main inlet and outlet locations and a clamp 14 to apply a clamping force transverse to the rope 1 at a clamping location 8 within the passageway 16, 17, the passageway having sections running in opposed directions.

Classifications:
International (IPC 8-9): B66C13/00 F16G11/00 F16G11/06 F16G11/10 F16G11/12 (Advanced/Invention); B66C13/00 F16G11/00 (Core/Invention)
CPC: Y10T24/3969 F16G11/06 F16G11/12 F16G11/101
European: F16G11/06 F16G11/10 F16G11/12
US: 24/136.00R 24/136R



Family:

Publication number	Publication date	Application number	Application date
AU2006202572 AA	20070111	AU20060202572	20060616
AU2006202572 BB	20110825	AU20060202572	20060616
DE602006023038 D1	20110901	DE200660023038T	20060616
EP1734281 A2	20061220	EP20060253147	20060616
EP1734281 A3	20070418	EP20060253147	20060616
EP1734281 B1	20110713	EP20060253147	20060616
ES2369786 T3	20111207	ES20060253147T	20060616
GB200512612 A0	20050727	GB20050012612	20050618
JP2006349183 A2	20061228	JP20060168025	20060616
US2006282990 AA	20061221	US20060454528	20060616
US7712193 BB	20100511	US20060454528	20060616

Priority:
GB20050012612 20050618 EP20060253147 20060616

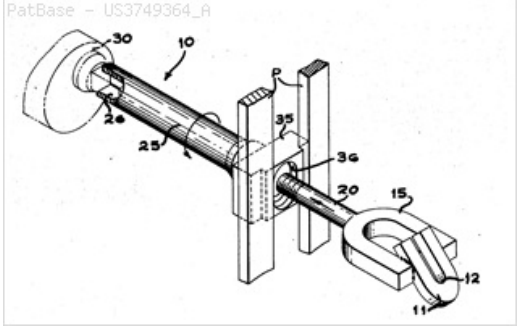
Probable Assignee: IDEM SAFETY SWITCHES LTD
Assignee(s): (std): IDEM SAFETY SWITCHES LTD
Assignee(s): IDEM SAFETY SWITCHES LIMITED
Inventor(s): (std): MEDI MOHTASHAM ; HAMED FARIDFAR ; FARIDFAR HAMED ; MOHTASHAM MEDI
Agent(s): MADDERNS PTY LTD; MADDERNS PATENT AND TRADE MARK ATTORNEYS; WEBER AND HEIM PATENTANWAELTE PARTNERSCHAFTSGESELLSCHAFT MBB; WILSON GUNN; QUARLES AND BRADY STREICH LANG LLP; QUARLES AND BRADY LLP; GAVIN J
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

18) Family number: 1360989 (US3749364A)

Title: CABLE TENSIONING APPARATUS

Abstract: Apparatus for tensioning a cable employed for repairing deformed yieldable structures in which one end thereof has a generally U-shaped configuration. The legs of the U-shaped end is joined by a slotted cross piece to receive in locking engagement therewith a cable to be tensioned. Extending from the U-shaped end is an integrally formed threaded rod. A threaded impact tube receives the rod in threaded engagement therewith. The free end of the impact tube is suitably notched to receive a conventional air operated impact wrench. Between the U-shaped end and the impact tube is an abutment member that has a suitable opening to receive the rod. The abutment member engages a fixed post or bar to maintain a stationary position. When the impact wrench rotates the impact tube, the impact tube engages the abutment member to maintain a fixed location longitudinally while rotating about its axis. As a consequence thereof, the rod is drawn into the tube and the U-shaped end applies a tension to the cable attached thereto.

Classifications:
International (IPC 8-9): F16B7/18 F16G11/00 F16G11/12 F16G15/04 (Advanced/Invention); F16B7/18 F16G11/00 F16G15/00 (Core/Invention)
International (IPC 1-7): B21D1/12 B66F3/10 B66F3/36 F16B7/18 F16G11/12
CPC: Y10S72/705 F16G11/12 F16G15/04
European: F16G11/12 F16G15/04
US: 254/100 254/231 254/6.7 254/67 72/705



Family:

Publication number	Publication date	Application number	Application date
BR7402260 A0	19741029	BR19740002260	19740322
CA987658 A1	19760420	CA19740194483	19740308
DE2413462 A1	19741010	DE19742413462	19740320
DE2413462 B2	19790712	DE19742413462	19740320
DE2413462 C3	19800320	DE19742413462	19740320
FR2223598 A1	19741025	FR19740009770	19740321
FR2223598 B1	19780106	FR19740009770	19740321
GB1437842 A	19760603	GB19740010700	19740311
IT1003874 A	19760610	IT19740049617	19740325
JP50012462 A2	19750208	JP19740033368	19740325
JP52158272 U1	19771201	JP19770063813U	19770518
MX143516 A	19810527	MX19740150087	19740325
US3749364 A	19730731	US19720227991	19720222
US3980275 A	19760914	US19730344573	19730326

Priority:

US19720227991 19720222 US19730344573 19730326

Probable Assignee: SANCHEZ ANASTACIO V CUPERTINO CALIF V ST A

Assignee(s): (std)**:** SANCHEZ A ; SANCHEZ ANASTACIO ; SANCHEZ ANASTACIO V ; SANCHEZ V ANASTACIO

Assignee(s): SANCHEZ ANASTACIO V CUPERTINO CALIF V ST A ; SANCHEZ ANASTACIO US ; SANCHEZ A US

Inventor(s): (std)**:** SANCHEZ A ; SANCHEZ ANASTACIO V

Inventor(s): SANCHEZ A US