

Search history

Search FT=(backlash and skid-steering) (Results 2)
1:

Search fn=(73621047) (Results 1)
2:

Search fn=(73621047) (Results 1)
3:

Search [SP]: mecanismo de eliminacion de juego mecanico (backlash) para transmision de cadena-pinion en vehiculos con arquitectura de direccion
4: deslizante (skid-steering) removal mechanism mechanical play (backlash) for transmission chain-sprocket in vehicles with sliding direction (skid-steering) architecture mecanismo de eliminacion de backlash para una transmision por cadena-pinion que usa el sistema de amortiguacion del vehiculo para tensionar la cadena. el sistema de compensacion puede ser de operacion activa o pasiva y funciona modificando la carrera util del amortiguad'or de la suspension. esta modificacion puede ser por medio manual, accionado por un sistema neumatico, hidraulico o por medio de un motor tambien de modo automatico recibiendo asistencia de una unidad de procesamiento de informacion (microcontrolador) y de la medicion de la tension de la cadena para asi hacer la compensacion necesaria y enviar datos con protocolos tcp/ip a una nube o un servidor para supervision remota y /o tele operacion. el ajuste del amortiguador y el mecanismo de suspension, permite mantener la tension de la cadena incluso al momento de agregar o remover carga del vehiculo. elimination of backlash mechanism for a chain-sprocket using the damping system of the vehicle for tensioning the chain. the compensation system can be active or passive operation and functions by modifying the stroke of the amortiguad'or of the suspension. this modification can be by manual means, driven by a hydraulic or pneumatic system, by means of a motor also automatically receive assistance of an information processing unit (microcontroller) and the measurement of the tension of the chain so as to make the necessary compensation and send data with tcp/ip protocols to a cloud or a server for remote monitoring and/or tele operation. the adjustment of the shock absorber and the suspension mechanism, allows to maintain the tension of the chain even at the time of adding or removing vehicle load. (Results 1)

Search CPC=(f16h7/08) (Results 2273)
5:

Search sprocked chain (Results 2)
6:

Search wheel and 5 (Results 591)
7:

Search tolerance and 7 (Results 23)
8:

Search suspension and 5 (Results 44)
9:

1) Family number: 43387044 (US2010273591A)

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Title: MECHANICAL SPRING ELEMENT FOR FLEXIBLE DRIVE

Abstract: A spring element that is designed for a flexible drive of an internal combustion engine. The spring element has a cylinder, in which a piston is guided in a linearly displaceable manner, a force being applied to the piston by spring means. Corresponding fixing eyes are respectively allocated to the cylinder and the piston for fixing the spring element. A transverse pin is associated with the piston to limit the travel of the spring element. The pin engages in a positive fit with backlash in a longitudinal guiding element of the cylinder.

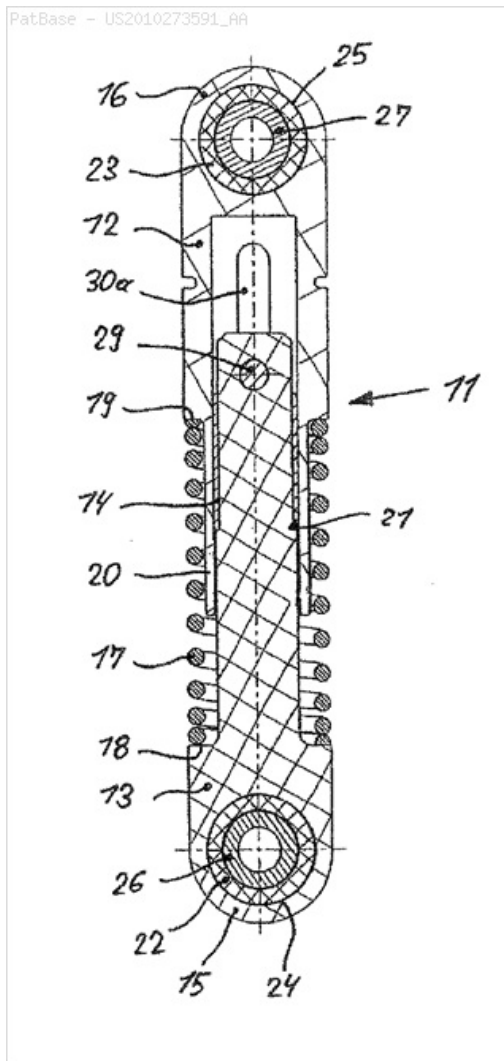
Classifications:

International (IPC 8-9): F16H7/08 F16H7/12 (Advanced/Invention);
F16H7/08 F16H7/12 (Core/Invention)

CPC: F16H7/08 F16H2007/0806 F16H2007/0846 F16H2007/0878

European: F16H7/08 R16H7/08A2 R16H7/08Q R16H7/08V1

US: 474/138 474/138P

**Family:**

Publication number	Publication date	Application number	Application date
AT519968 E	20110815	AT20080859409T	20081209
CN101861478 A	20101013	CN200880116381	20081209
CN101861478 B	20130327	CN200880116381	20081209
DE502008004486 D1	20111013	DE200850004486T	20081209
EP2217831 A1	20100818	EP20080859409	20081209
EP2217831 B1	20110810	EP20080859409	20081209
US2010273591 AA	20101028	US20080747015	20081209
WO09074566 A1	20090618	WO2008EP67093	20081209

Priority:

DE200710059657 20071210 EP20080859409 20081209 WO2008EP67093 20081209

Probable Assignee: SCHAEFFLER TECHNOLOGIES GMBH AND CO KG

Assignee(s): (std): GRAF HERBERT ; JAHNKE PATRICK ; KAISER JOERG ; MACK STEFAN ; PROSCH GERHARD ; ROST CHRISTOPH ; SCHAEFFLER KG ; SCHAEFFLER TECHNOLOGIES GMBH

Assignee(s): SCHAEFFLER TECHNOLOGIES GMBH AND CO KG ; SCHAEFFLER TECHNOLOGIES AND CO AG KG

Inventor(s): (std): GRAF HERBERT ; JAHNKE PATRICK ; KAISER JOERG ; MACK STEFAN ; PROSCH GERHARD ; ROST CHRISTOPH ; STEFAN MACK ; PATRICK JAHNKE ; JOERG KAISER ; HERBERT GRAF ; GERHARD PROSCH ; CHRISTOPH ROST

Agent(s): LUCAS AND MERCANTI LLP; SCHAEFFLER KG

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

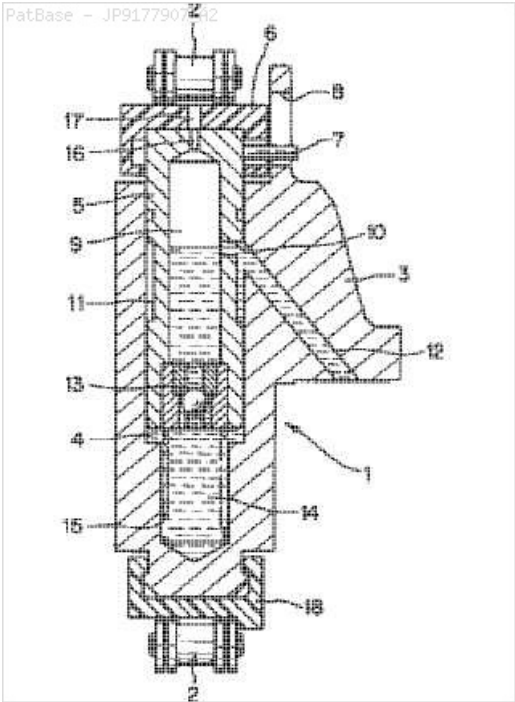
2) Family number: 12913059 (JP9177907A)

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Title: HYDRAULIC PUSHING UP TENSIONER

Abstract: PROBLEM TO BE SOLVED: To easily remove the air intermixed in supply oil without leaking oil from a high pressure chamber, and reduce the manufacturing cost by a simple structure. SOLUTION: An oil reserver 9 is formed in a plunger 5 fitted into the plunger chamber 4 of a tensioner body 3, and the oil in the oil reserver 9 is supplied to a high pressure chamber 14 formed between the bottom of the plunger chamber 4 and the lower end of the plunger 5 through a check valve 13. From the outside, oil is supplied to the oil reserver 9 through an oil path 12 formed in the tensioner body 3 and an oil feed part 10 provided in the side wall of the plunger 5. Further, an air vent port 16 connected to the outside is provided at the upper part of the oil reserver 9 to exhaust the air from the oil reserver 9.

Classifications:
International (IPC 8-9): F16H7/08 (Advanced/Invention);
F16H7/08 (Advanced/Non-invention);
F16H7/08 (Core/Invention)
International (IPC 1-7): F01L1/02 F16H7/08
CPC: F16H7/08 F16H7/0848 F16H2007/0812 F16H2007/0859
F16H2007/0874
European: F16H7/08 F16H7/08R R16H7/08A5 R16H7/08R4
R16H7/08T4



Family:

Publication number	Publication date	Application number	Application date
DE19653066 A1	19970717	DE19961053066	19961219
GB2308420 A1	19970625	GB19960021678	19961017
GB9621678 A0	19961211	GB19960021678	19961017
JP9177907 A2	19970711	JP19950332059	19951220
KR100238000 B1	20000302	KR19960051735	19961104
KR19970046328 A	19970726	KR19960051735	19961104
KR970046328 A	19970726	KR19960051735	19961104

Priority:

JP19950332059 19951220

Probable Assignee: TSUBAKIMOTO CHAIN CO

Assignee(s): (std): TSUBAKIMOTO CHAIN CO

Assignee(s): TSUBAKIMOTO CHAIN CO OSAKA JP

Inventor(s): (std): HAYAFUNE YUTAKA ; FUKUDA MOICHI ; SUZUKI YASUSHI ; SUZUKI DADASU ; HUKUDA SIGEKAZ ; HAYAHUNE HIROSHI ; SUZUKI TADASU ; FUKUDA SHIGEKAZU ; HAYAFUNE HIROSHI

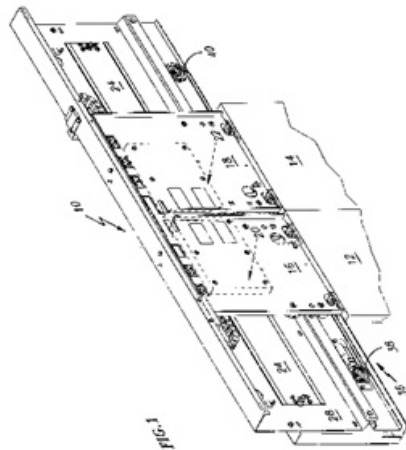
Inventor(s): TADASU SUZUKI ; SHIGEKAZU FUKUDA ; HIROSHI HAYAFUNE ; HAYAFUNE HIROSHI IRUMA SAITAMA JP ; SUZUKI TADASU HIGASHIMURAYAMA TOKIO TOKYO JP ; FUKUDA SHIGEKAZU TOKOROZAWA SAITAMA JP

3) Family number: 11182091 (US5819878A) © PatBase

Title: Pretensioning system for synchronization and positioning system

Abstract: A pretensioning system for a relating cable synchronizing movement of elevator car doors includes a compression spring and a spacer disposed on one end of the relating cable. The compression spring is compressed to the length of the spacer disposed internally to the spring to calibrate tension in the relating cable so that a no-slip condition is ensured.

Classifications:
International (IPC 8-9): B66B1/00 B66B13/00 B66B13/08 E05F15/14
F16G11/03 F16H7/08 (Advanced/Invention);
B66B13/00 (Advanced/Non-invention);
B66B13/02 E05F15/14 F16G11/00 F16H7/08 (Core/Invention)
International (IPC 1-7): B66B13/00 B66B13/06 B66B13/08
B66B13/8 B66B7/06 E05F15/14 E15F15/20 F16G11/03 F16H7/08
F16H7/8
CPC: F16H7/08 B66B13/08
European: B66B13/08 F16H7/08
US: 187/324 49/121 49/123

**Family:**

Publication number	Publication date	Application number	Application date
BRPI9705213 A	19990928	BR1997PI05213	19971031
CN1191204 A	19980826	CN19971014176	19971106
DE69733241 D1	20050616	DE19976033241	19971031
DE69733241 T2	20060119	DE19976033241T	19971031
EP0841289 A1	19980513	EP19970308753	19971031
EP0841289 B1	20050511	EP19970308753	19971031
ES2238714 T3	20050901	ES19970308753T	19971031
JP10139326 A2	19980526	JP19970301366	19971104
JP4036938 B2	20080123	JP19970301366	19971104
KR100482707 B1	20050805	KR19970058811	19971107
KR19980042208 A	19980817	KR19970058811	19971107
MY130971 A	20070731	MY19970004783	19971013
RU97118849 A	19990720	RU19970118849	19971030
SG67427 A1	19990921	SG19970003808	19971020
US5819878 A	19981013	US19960746255	19961107

Priority:

US19960746255 19961107

Probable Assignee: OTIS ELEVATOR CO**Assignee(s):** (std): OTIS ELEVATOR CO**Assignee(s):** OTIS ELEVATOR CO FARMINGTON ; OTIS ELEVATOR COMPANY**Inventor(s):** (std): BARRETT DALE R ; RIVERA JAMES A ; SWAYBILL BRUCE P ; BARET DALE R ; BARRET DALE R**Inventor(s):** JAMES A RIVERA ; DALE R BARRETT ; BRUCE P SWAYBILL**Agent(s):** SHIGA FUJIYA; TOMIOKA KIYOSHI; HASHIMOTO TAKESHI**Designated states:** DE ES FR GB IT**4) Family number: 68083104** (WO18003746A1)

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Title: AUTO TENSIONER PROVIDED IN AUXILIARY DEVICE DRIVE BELT SYSTEM

Abstract: The present invention pertains to an auto tensioner (1) provided in an auxiliary device drive belt system that: comprises a friction member (6) that is sandwiched between an arm (3) and the inner circumferential face of an outer cylinder (21) of a base (2) in the radial direction of the outer cylinder (21) and that has an arcuate face (60) locked to the arm (2) and able to slide with respect to the inner circumferential face of the outer cylinder (21); and is characterized in that the friction member (6) is provided so that the arcuate face (60) remains at the height of a horizontal plane (HP) passing through a central axis (R) or higher when sliding with respect to the inner circumferential face of the outer cylinder (21) in conjunction with the swinging of the arm (3).

Classifications:

International (IPC 8-9): F16F15/04 F16F7/02 F16H55/52 F16H7/08 F16H7/12 (Advanced/Invention)

International (IPC 1-7): F16F15/04 F16F7/02 F16H7/12

CPC: F16H7/08 F16H7/0831 F16H7/1218 F16H7/1281 F16H2007/081 F16H2007/0865 F16H2007/0893 F16H7/12 F16F7/02 F16F15/04

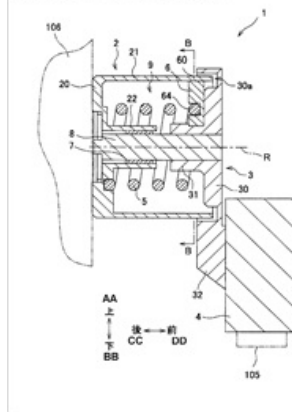


FIG. 2:
AA Up
BB Down
CC Rear
DD Front

Family:

Publication number	Publication date	Application number	Application date
BR112018077174 A2	20190402	BR20181177174	20170626
CA3023428 AA	20181106	CA20173023428	20170626
CN109416110 A	20190301	CN201780039779	20170626
EP3477153 A1	20190501	EP20170820101	20170626
EP3477153 A4	20200401	EP20170820101	20170626
IN201817042011 A	20181228	IN201817042011	20181106
JP2018004081 A2	20180111	JP20170113115	20170608
JP6527550 B2	20190605	JP20170113115	20170608
KR20190007062 A	20190121	KR20187037119	20170626
TW201802372 A	20180116	TW20170121412	20170627
TWI641773 B	20181121	TW20170121412	20170627
WO18003746 A1	20180104	WO2017JP23412	20170626

Priority:

JP20160126315 20160627 JP20170113115 20170608 WO2017JP23412 20170626

Probable Assignee: MITSUBOSHI BELTING LTD

Assignee(s): (std): MITSUBOSHI BELTING LTD

Assignee(s): OISHI SATOSHI

Inventor(s): (std): OISHI SATOSHI ; SATOSHI OISHI ; OISHI TETSUSHI

Agent(s): RICHES MCKENZIE AND HERBERT LLP; HOFFMANN EITLE; KAJI SUHARA AND ASSOCIATES; EIKOH PATENT FIRM PC

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 JO KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

5) Family number: 61273122 (CN105202134A)

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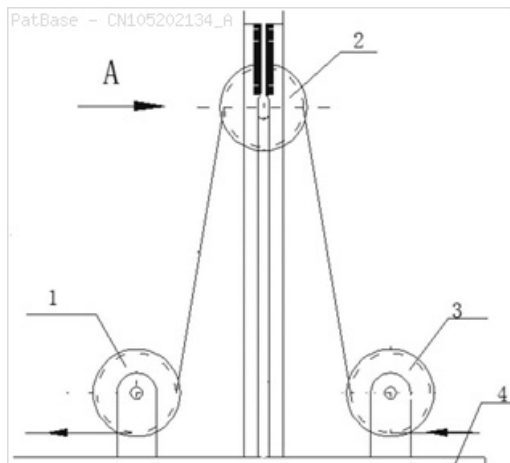
Title: HIGH-SPEED TRACTION SYNCHRONIZING GEAR

Abstract: The invention discloses a high-speed traction synchronizing gear, belonging to the technical field of traction synchronization. The high-speed traction synchronizing gear comprises a first pulley, a second pulley and a third pulley, wherein the first pulley and third pulley are fixedly mounted on a mounting base, and respectively arranged on both sides of the second pulley; the center of the second pulley is provided with a shaft which penetrates through the two sides of the second pulley; the shaft is suspended on a suspension point through a spring; the suspension point is higher than the first pulley; and when the spring is stretched to the maximum extent, the second pulley is not lower than the first pulley. When the traction force increases, the second pulley moves downwards and pulls the spring, so that the tensile force of the spring increases; and when the traction force decreases, the second pulley moves upwards along the sliding chute under the action of the tensile force of the spring, thereby ensuring the traction rope on the third pulley to be always in the tensile state, and achieving the goal of synchronizing cargos.

Classifications:

International (IPC 8-9): F16H7/08 (Advanced/Invention)

CPC: F16H7/08 F16H2007/0802



Family:

Publication number	Publication date	Application number	Application date
 CN105202134 A	20151230	CN201510496855	20150813

Priority:

CN201510496855 20150813

Probable Assignee: XI AN AIRCRAFT DESIGN INST CHINA AVIAT IND CORP

Assignee(s): (std): XI AN AIRCRAFT DESIGN INST CHINA AVIAT IND CORP

Assignee(s): XI AN AIRCRAFT DESIGN INST OF AVIATION IND OF CHINA CORP ; CHINA AVIATION IND XI AN AIRCRAFT DESIGN INST CORP

Inventor(s): (std): ZHANG HENGMING

6) Family number: 65419143 (DE102015013121A1)

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Title: SPANNVORRICHTUNG MIT ENTRIEGELUNGSMECHANISMUS CLAMPING DEVICE WITH RELEASE MECHANISM (Machine translation)

Abstract: Source: DE102015013121A1 [DE] Die vorliegende Erfindung betrifft eine Spannvorrichtung fuer ein flexibles Antriebsmittel, insbesondere fuer eine Antriebskette oder einen Antriebsriemen, mit einem Gehaeuse, einem in einer Kolbenbohrung des Gehaeuses verschiebbar gefuehrten, federbelasteten Spannkolben, einer Nachstelleinrichtung zum schrittweisen Nachstellen des Arbeitsbereichs des Spannkolbens und einer Transportsicherung. Die Nachstelleinrichtung umfasst eine Rastspange mit zwei Klemmabschnitten und ein an dem in Spannrichtung vorderen Bereich des Spannkolbens angeordnetes Rastprofil, waehrend die Transportsicherung eine am Spannkolben umlaufende Sicherungsnut umfasst, in der im Transportzustand die Klemmabschnitte der Rastspange angeordnet sind. Die den Spannkolben umlaufende Sicherungsnut weist zwei flache Nutabschnitte auf, die derart ausgebildet und angeordnet sind, dass in Abhaengigkeit der relativen Drehstellung des Spannkolbens zu den Klemmabschnitten der Rastspange ein uebergang der Klemmabschnitte der Rastspange aus der Sicherungsnut ueber die zwei flachen Nutabschnitte in das Rastprofil moeglich ist. Des Weiteren bezieht sich die Erfindung auf einen Kettentrieb, der eine solche Spannvorrichtung umfasst. **Machine translation:** , The present invention concerns a clamping device for a flexible drive, in particular for a chain or a belt, with a body, a movable led in a piston bore of the housing, spring-loaded piston, a run-down facility to gradually adjust of the workspace of the clamping piston and a transport lock. The adjusting device includes a locking clasp with two clamping sections and a locking profile arranged at the front in the direction of the clamping area of the clamping piston, while the transport securing device includes a Sicherungsnut wraparound on the clamping piston, in which the clamping sections of the latching clasp are arranged in the transport State. The Sicherungsnut running around the clamping piston has two flat Nutabschnitte, which are so trained and arranged that a transition of the clamping sections of the rest clip out of the Sicherungsnut of the two shallow Nutabschnitte in the Rast profile is possible depending on the relative rotational position of the clamping piston to the clamping sections of the latching clasp. In addition the invention refers to a chain drive, which includes a such fixture.

Classifications:

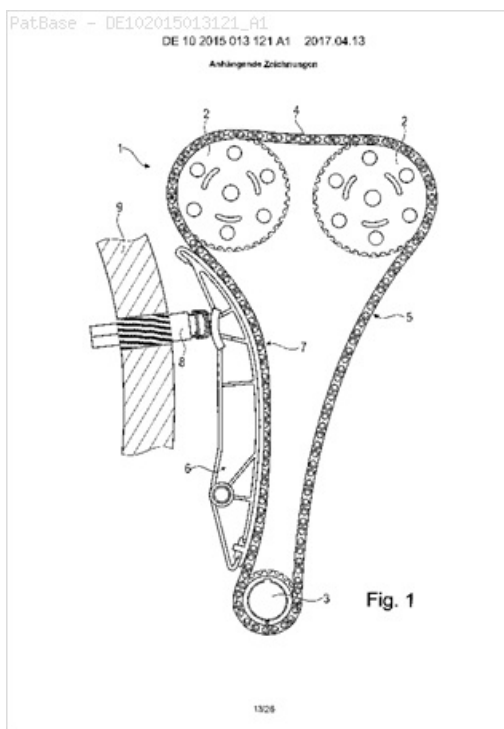
International (IPC 8-9): F01L1/02 F02B67/06

F16H7/08 (Advanced/Invention)

CPC: F01L1/02 F01L1/022 F02B67/06 F16H7/08 F16H7/18

F16H2007/0812 F16H2007/0853 F16H2007/0855 F16H2007/0872

F16H2007/0893



Family:

Publication number	Publication date	Application number	Application date
 DE102015013121 A1	20170413	DE201510013121	20151008

Priority:

DE201510013121 20151008

Probable Assignee: IWIS MOTORSYSTEME GMBH AND CO KG

Assignee(s): (std): IWIS MOTORSYSTEME GMBH AND CO KG

Inventor(s): (std): WACH FRANZ

7) Family number: 56778165 (US2015284003A)

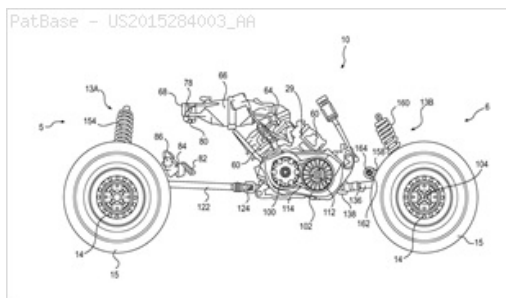
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Title: METHOD AND SYSTEM FOR LIMITING BELT SLIP IN A CONTINUOUSLY VARIABLE TRANSMISSION

Classifications:

CPC: F02D29/02 F02D37/02 F02D41/0215 F02D2250/18

US: 701/54



Publication number	Publication date	Application number	Application date
CA2895931 AA	20150619	CA20122895931	20121221
CN104903628 A	20150909	CN201280078091	20121221
CN104903628 B	20170503	CN201280078091	20121221
RU2015128016 A	20170126	RU20150128016	20121221
RU2632388 C2	20171004	RU20150128016	20121221
US2015284003 AA	20151008	US20150744801	20150619
US9541013 BB	20170110	US20150744801	20150619
WO14098893 A1	20140626	WO2012US71241	20121221

WQ2012JJS71241 20121221 JJS20150744801 20150619

Assignee(s): (std): BOMBARDIER RECREATIONAL PRODUCTS INC ; BOMBARDIER RECREATIONAL PRODUCTS INC ; BRP US INC ; BOMBARDIER RECREATIONAL PROD ; BOMBARDE REKRIEJSHENEL PRODAKTS INK

Assignee(s): BANK OF MONTREAL ADMINISTRATIVE AGENT AS ; DESJARDINS GOULET MAXIME ; GAUTHIER JEAN
PHILIPPE ; RIOUX ROGER

Inventor(s): (std): DESJARDINS GOULET MAXIME ; GAUTHIER JEAN PHILIPPE ; RIOUX ROGER ; RIU ROZHER ; GOTE ZHAN FILIPP ; DEZHARDEN GULE MAKSIM

Agent(s): BCF LLP; MV KHMARA; CUTLER JONATHAN D

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 KS 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

8) Family number: 68800174 (DE102016116477A1)

Title: HYDRAULISCHE SPANNVORRICHTUNG MIT PRAEZISIONSABSTROEMBOHRUNG UND OPTIMISierter INNENGEOMETRIE
Hydraulic tensioner with PRAEZISIONSABSTROEMBOHRUNG AND OPTIMIZED INNER GEOMETRY (Machine translation)

Abstract: Source: DE102016116477A1 [DE] Die vorliegende Erfindung betrifft eine hydraulische Spannvorrichtung fuer einen Endlostrieb, insbesondere einen Steuerkettentrieb eines Verbrennungsmotors, mit einem Gehaeuse und einem im Gehaeuse verschiebbar gefuehrten Kolben, der eine Hohlbohrung aufweist und mit dem Gehaeuse einen Druckraum ausbildet, der Druckraum wird an einem Spannende des Kolbens durch eine Kolbenstirnwand begrenzt, in die ausgehend von der Kolbenbohrung eine Senkbohrung eingebracht ist, die Senkbohrung muen-det in mindestens eine nach aussen offene Abstroembohrung, die massgeblich Einfluss auf das Daempfungverhalten der hydraulischen Spannvorrichtung nimmt, und mit einer im Druckraum angeordneten Druckfeder. Die mindestens eine Abstroembohrung ist als Praezisionsabstroembohrung ausgebildet und an der Innenseite der Kolbenstirnwand ausserhalb der Senkbohrung ist eine senkrecht zu einer Laengsachse des Kolbens verlaufende Anlageflaeche fuer die Druckfeder ausgebildet. **Machine translation:** The present invention relates to a hydraulic tensioner for an endless train, in particular a control chain drive of an internal combustion engine, having a housing and a housing slidably guided piston having a hollow bore and with the housing a pressure chamber, the pressure chamber is at an exciting of the piston through a piston end wall in the proceeding from the piston bore a countersunk bore, the countersunk bore in at least one outwardly open Abstroembohrung, have a decisive influence on the damping characteristics of the hydraulic clamping device arranged in the pressure chamber, and a pressure spring. The at least one Abstroembohrung Praezisionsabstroembohrung than formed and disposed on the interior side of the piston end wall outside the counterbore is a perpendicular to a longitudinal axis of the piston extending abutment surface for the compression spring.

International (IPC 8-9): F16H7/08 (Advanced/Invention)

CPC: F16H7/08 F16H7/0834 F16H2007/0806 F16H2007/0812
F16H2007/0859 F16H2007/0872 F16H2007/0893

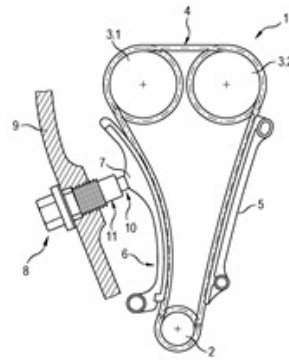


Fig. 1

15/16

Family:

Publication number	Publication date	Application number	Application date
DE102016116477 A1	20180308	DE201610116477	20160902

Priority:

DE201610116477 20160902

Probable Assignee: IWIS MOTORSYSTEME GMBH AND CO KG

Assignee(s): (std): IWIS MOTORSYSTEME GMBH AND CO KG

Inventor(s): (std): BAUER CHRISTIAN ; LATZ STEFFEN ; WACH FRANZ

9) Family number: 1635211 (DE2704862A1)

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Title: HYDRAULIC-MECHANICAL CHAIN TENSIONER - HAS PISTON SPRING PRESSED AGAINST CUSHION IN TURN PRESSING PISTON AND PLATE AGAINST CYLINDER TUBE COVER

Abstract: The hydraulic-mechanical chain tensioning device uses a piston (4) moving inside a cylinder tube (3), the piston being pressed by springs (1) against a grease or oil cushion. This cushion in turn presses a further piston (5) with its plate (7) against a cover (6) tightly screwed to the cylinder tube. The plate of the second piston is guided into a thread (8) in the cover, and also in this cover is a pressure valve (11) and a vent screw (12). Side parts screwed to the tension unit act as guides for the complete assembly and a top cylinder (9) allows the whole unit to be adjusted.

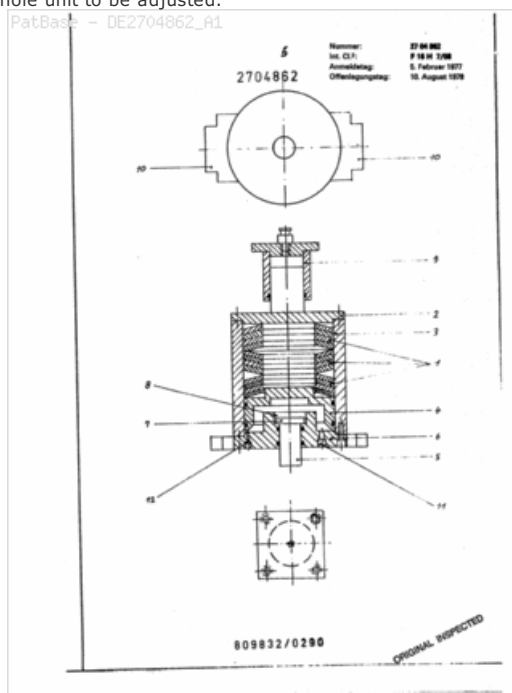
Classifications:

International (ipc 8-9): F16H7/08 (Advanced/Invention); F16H7/08 (Core/Invention)

International (ipc 1-7): F16F13/00 F16G11/12 F16H7/08

CPC: F16H7/08 F16H2007/0804 F16H2007/0891

European: F16H7/08 R16H7/08A1 R16H7/08Z1



Family:

Publication number	Publication date	Application number	Application date
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Priority:

DE19772704862 19770205

Probable Assignee:

MENKHOFF KARLHEINZ

Assignee(s): (std):

MENKHOFF KARLHEINZ

Inventor(s): (std):

MENKHOFF KARLHEINZ

10) Family number: 70853225 (US2018238424A)

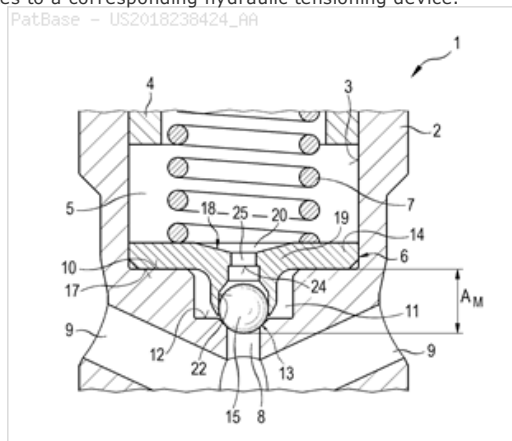
© PatBase

Title: VALVE UNIT WITH CARRIER PLATE AND VALVE BODY

Abstract: A valve unit for a tensioning device of an endless drive is provided, in particular a chain drive of an internal combustion engine, with a carrier plate having an underside forming a contact surface and an upper side which can be faced towards a pressure chamber of the tensioning device, and a valve body which is guided in a receptacle movably relative to the carrier plate for opening and closing a valve seat of the tensioning device. Such a valve unit is to be simplified and more cost-saving. The receptacle is formed by the carrier plate and a suspension device is provided in the region of the receptacle on which the valve body is suspended from the carrier plate in a lowermost position. The carrier plate is horizontal in the non-installed state of the tensioning device, such that the valve body projects downwardly out of the receptacle and is movable upwardly by at least the opening stroke. The invention relates to a corresponding hydraulic tensioning device.

Classifications:**International (IPC 8-9):** F16H7/08 F16K15/04 (Advanced/Invention)**CPC:** F16H7/0848 F16H2007/0859 F16H2007/0812 F16K15/044

F16H7/08

US: 1/1 474/110**Family:**

Publication number	Publication date	Application number	Application date
CN108458068 A	20180828	CN201810148928	20180213
DE102017103534 A1	20180823	DE201710103534	20170221
US2018238424 AA	20180823	US20180879386	20180124

Priority:

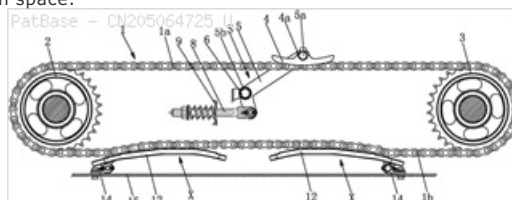
DE201710103534 20170221

Probable Assignee: IWIS MOTORSYSTEME GMBH AND CO KG**Assignee(s):** (std): IWIS MOTORSYSTEME GMBH AND CO KG**Inventor(s):** (std): GEIBEL HENNING ; PERISSINOTTO RENZO ; HENNING GEIBEL ; RENZO PERISSINOTTO**11) Family number: 60997230** (CN205064725U)

© PatBase

Title: CHAIN TENSIONING DEVICE

Abstract: The utility model discloses a chain tensioning device, the first half chain link department are equipped with tensioning assembly, and the first half chain link, the shell-like portion of top board and the locating pin normal running fit of rocking arm upper end are pushed down to the top board of going up among the tensioning assembly, the adapter sleeve and the step bolt normal running fit at rocking arm middle part, the rocking arm end of rocking arm lower extreme is connected with the adjusting screw right-hand member through the connecting pin, and the cover was equipped with pretension spring and lock nut after the adjusting screw left end passed the via hole on the limiting plate, bottom plate one end among the tensioning assembly is unsettled down, and the journal stirrup of its other end bottom surface passes through connecting pin roll and articulates with lower mount pad, the bottom plate is first segmental arc from the hinged end toward the free end in proper order, section, the second segmental arc that first work is straight, the section that second work is straight, third segmental arc, fourth segmental arc and the 5th segmental arc. The utility model discloses can effectively reduce the chain normal -reverse transfer to the time float to the reliability of assurance chain drive, just the utility model discloses it is small to can use under the narrow and small occasion in space.

Classifications:**International (IPC 8-9):** F16H7/08 (Advanced/Invention)**CPC:** F16H7/08 F16H2007/087**Family:**

Publication number	Publication date	Application number	Application date
CN105114565 A	20151202	CN201510618065	20150924
CN105114565 B	20170405	CN201510618065	20150924

Priority:

CN201510618065 20150924 CN201520745790U 20150924

Probable Assignee: CHINA JIALING IND CO LTD GROUP**Assignee(s):** (std): CHINA JIALING IND CO LTD GROUP**Assignee(s):** CHINA JIALING INDUSTRIAL CO ; CHINA JIALING INDUSTRIAL CO LTD GROUP**Inventor(s):** (std): LIU MENG**12) Family number: 69028231** (WO18055473A1)

© PatBase

Title: A CYLINDER BLOCK OF INTERNAL COMBUSTION ENGINE WITH A TENSIONER HOLE

Abstract: The present subject matter discloses an oil cooled internal combustion (IC) engine (101). A cylinder block (204) of said IC engine (101) is configured to have a tensioner hole (610) bored on one side of the cylinder block (204) to accommodate a chain tensioner (301). The tensioner hole (610) has a stepped profile (610c) to accommodate the outer profile of the chain tensioner (301). A groove (601) is cut on the tensioner hole (610) to enable drainage of the lubricating oil on its accumulation at the junction (703) between the tensioner hole (610) and the chain tensioner (301).

Classifications:**International (IPC 8-9):** F16H7/08 F16H7/18 (Advanced/Invention)**CPC:** F16H7/18 F16H7/08 F16H7/0834 F16H2007/0812 F16H2007/0872

PatBase - WO18055473_A1

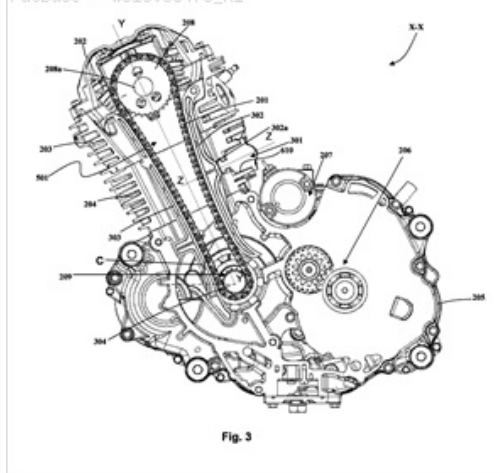


Fig. 3

Family:

Publication number	Publication date	Application number	Application date
■ ID201906920 A	20190920	ID2019PID02113	20170905
■ WO18055473 A1	20180329	WO2017B55320	20170905

Priority:

IN201641040198 20160924

Probable Assignee: TVS MOTOR CO LTD**Assignee(s):** (std): TVS MOTOR CO LTD**Inventor(s):** (std): NAGENDRA KUMAR DHARMAPURI ; PILLAI LOGANAYAKAN PADMANABHA ; IYENGAR LAKSHMINARASIMHAN VARADHA**Agent(s):** ACHMAD FATCHY

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 JO 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

13) Family number: 64907250 (DE102015215550A1)

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Title: VERFAHREN ZUM STARTEN EINER BRENNKRAFTMASCHINE EINES KRAFTFAHRZEUGS

Abstract: Source: DE102015215550A1 [DE] Die Erfindung betrifft ein Verfahren zum Starten einer Brennkraftmaschine (105) mit einem riemengetriebenen Startergenerator (130) und einem Ritzelstarter (110), wobei die Brennkraftmaschine (105) eine Kurbelwelle (151) aufweist, die Drehmomentuebertragend mit dem riemengetriebenen Startergenerator (130) und dem Ritzelstarter (110) verbindbar ist, wobei von dem riemengetriebenen Startergenerator (130) ein Vorspannmoment (Mvor1, Mvor2) auf die Kurbelwelle (151) erzeugt wird (202, 502), welches geringer ist als ein Losbrechmoment der Kurbelwelle (151) ist, wobei von dem Ritzelstarter (110) alleine oder von dem Ritzelstarter (110) und dem riemengetriebenen Startergenerator (130) zusammen ein Startmoment auf die Kurbelwelle (151) erzeugt wird (205, 521, 522), das wenigstens so gross ist wie das Losbrechmoment der Kurbelwelle (151) ist, wobei die Kurbelwelle (151) durch das Startmoment in Drehbewegung versetzt wird (207, 512, 523).

Classifications:**International (IPC 8-9):** F02B67/06 F02N11/00 F02N11/04 F02N15/00 F16H7/08 (Advanced/Invention)**CPC:** F02B67/06 F02N11/04 F02N15/00 F02N2200/042 F02N2300/104 F16H7/08 F02N11/006 F02N15/02 F02N19/00 F02N2300/2002 F02N15/08

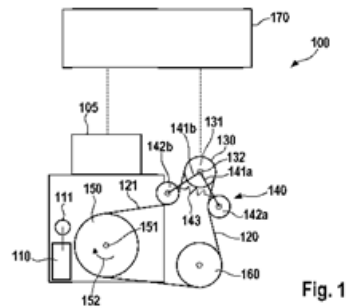


Fig. 1

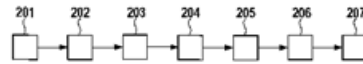


Fig. 2

9/11

Family:

Publication number	Publication date	Application number	Application date
■ CN106468235 A	20170301	CN201610665760	20160815
■ DE102015215550 A1	20170216	DE201510215550	20150814
■ FR3040078 A1	20170217	FR20160057632	20160808
■ FR3040078 B1	20190816	FR20160057632	20160808

Priority:

DE201510215550 20150814

Probable Assignee: BOSCH GMBH ROBERT**Assignee(s):** (std): BOSCH GMBH ROBERT**Assignee(s):** ROBERT BOSCH GMBH**Inventor(s):** (std): KLEIN BENJAMIN ; TRZEBIATOWSKI TOBIAS ; TOBIAS TRZEBIATOWSKI ; BENJAMIN KLEIN**Agent(s):** PIERRE HERRBURGER**14) Family number: 66906273 (US2019054815A)**

© PatBase

Title: HYBRID VEHICLE CONVERSION SYSTEM

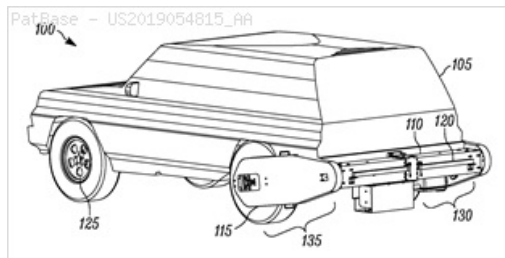
Abstract: Provided herein is an auxiliary hybrid system (AHS) that may be configured to provide electrical propulsion to an e.g., internal combustion-powered vehicle through the use of a battery and electric motor. Alternatively, the AHS may be configured to increase range to electric vehicles through the use of an internal combustion-powered generator. In either embodiment, the AHS is added to a vehicle without altering the operation of the vehicle's standard drivetrain, allowing the vehicle to operate conventionally when the AHS is not engaged. The AHS is compatible with a wide range of vehicles with a minimum of vehicle-specific parts.

Classifications:

International (IPC 8-9): B60K6/00 B60K6/20 B60K6/22 B60K6/36 B60K6/40 B60K6/48 B60W20/00 B60W20/30 F16H1/14 F16H1/16 F16H15/00 F16H7/06 F16H7/08 (Advanced/Invention)

CPC: B60K6/48 B60K6/36 B60W20/00 Y02T10/6221 B60K6/40 B60Y2200/92 F16H1/14 F16H1/16 F16H7/06 F16H7/08 B60K6/46 B60K2006/4808 B60W2300/14 B60K1/00 B60K2001/001 B60K2001/003 B60K2001/005 B60K2001/006 B60Y2304/076 B60L50/16 B60L2200/46

US: 1/1 180/292

**Family:**

Publication number	Publication date	Application number	Application date
■ EP3423322 A1	20190109	EP20170760670	20170301
■ EP3423322 A4	20200108	EP20170760670	20170301
■ US2019054815 AA	20190221	US20170079058	20170301
■ WO17151691 A1	20170908	WO2017US20062	20170301

Priority:

US20160302176P 20160302

US20170079058 20170301

WO2017US20062 20170301

Probable Assignee: CARBYNE ENTPR INC**Assignee(s):** (std): CARBYNE ENTPR INC**Assignee(s):** CARBYNE ENTERPRISES INC**Inventor(s):** (std): GURSKI THOMAS Q

Agent(s): STUTTARD GARRY PHILIP; NOON ADELE C

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 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

15) Family number: 1224291 (US3933055A)

© PatBase

Title: TENSIONING DEVICE FOR A FLEXIBLE DRIVE ELEMENT

Abstract: A drive chain is trained about drive and driven sprockets and is kept in proper tension by a tensioning device comprising a tensioning member located between the sprockets and extending transversely to the line of centers passing through the axes of rotation of the sprockets, the tensioning member including first and second spaced abutment surfaces facing toward the line of centers and engaging the opposite runs of the drive chain. A part of the tensioning member extends between the first and second abutment surfaces and is provided with an elongated aperture which is received on a pin located on the line of centers of the sprockets whereby as one of the chain runs tightens during operation it will move the tensioning member so as to effect tensioning of the other run.

Classifications:

International (IPC 8-9): B62D55/30 F16H7/08 F16H7/10

F16H7/12 (Advanced/Invention);

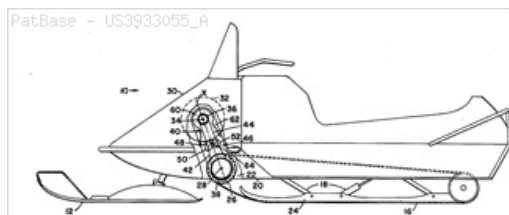
B62D55/08 F16H7/08 F16H7/10 F16H7/12 (Core/Invention)

International (IPC 1-7): B62D55/12 B62D55/30 F16H7/10 F16H7/12

CPC: Y10S474/901 F16H7/08

European: F16H7/08

US: 474/111 474/140 474/901 74/242.11S



Family:

Publication number	Publication date	Application number	Application date
CA1014201 A1	19770719	CA19750232843	19750805
JP51051834 A2	19760507	JP19750077499	19750623
US3933055 A	19760120	US19740518585	19741029

Priority:

US19740518585 19741029

Probable Assignee: DEERE AND CO

Assignee(s): (std): DEERE AND CO

Assignee(s): DEERE AND COMPANY ; DEIIA ANDO CO ; FIRST NATIONAL BANK OF MINNEAPOLIS ; LOHR THOMAS H ; NEWHOUSE THOMAS C ; POLARIS IND ; POLARIS IND INC A CORP OF MN ; POLARIS IND LP ; POLARIS IND LP A DE PARTNERSHIP LTD

Inventor(s): (std): NEWHOUSE THOMAS CHARLES ; LOHR THOMAS HERBERT ; NEWHOUSE THOMAS C ; LOHR THOMAS H ; TOOMASU CHAARUSU NYUUHAUSU ; TOOMASU HAABAATO ROO

16) Family number: 16918310 (DE29500516U1)

© PatBase

Title: Device for stretching chains, in particular open-loop systems at combustion engines

Abstract: Source: DE29500516U1 [DE] (Claim 1) 1. Vorrichtung zum Spannen von Ketten, insbesondere Steuerketten an Verbrennungsmotoren, mit einer Spannschiene und einem gestellfest abgestuetzten Kraftgeber, der die Spannschiene gegen die Kette drueckt und ein Zylindergehaeusehaet, das ein Federsystem enthaelt und ein von diesem beaufschlagtes, kolbenartiges Druckglied verschiebbar fuehrt, und ferner mit Mitteln, die den Kraftgeber quer zur Verschiebeachse des Druckglieds festhalten, dadurch gekennzeichnet, dass die Mittel zum Festhalten des Kraftgebers (26) an der Spannschiene (10) vorgesehen sind.

Machine translation: (Claim 1) 1 Device for tensioning of chains, in particular timing chains in combustion engines, with a clamping rail Neund a frame fixedly supported power generator, which expresses the railer against the chain and a Zylindergehaeusehat, which contains a spring system and leads one of this is acted upon, piston-like pressure member is moved, and also with means Hold the force sensor transversely to the axis of the compression member, characterized in that the means are provided to hold the force transducer (26) on the clamping rail (10).

Classifications:

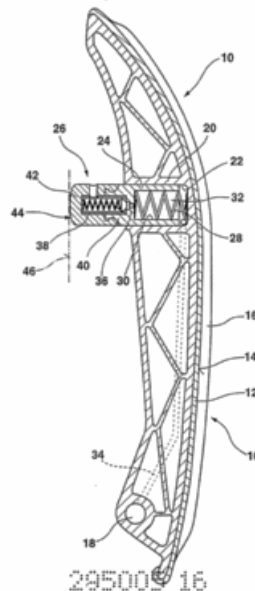
International (IPC 8-9): F16H7/08 (Advanced/Invention);

F16H7/08 (Core/Invention)

International (IPC 1-7): F16H7/08

CPC: F16H7/08 F16H2007/0872

European: F16H7/08 R16H7/08T3

14.01.95
1/1**Family:**

Publication number	Publication date	Application number	Application date
DE29500516 U1	19960620	DE19952000516U	19950114

Priority:

DE19952000516U 19950114

Probable Assignee: BOSCH GMBH ROBERT**Assignee(s):** (std): BOSCH GMBH ROBERT**Assignee(s):** ROBERT BOSCH GMBH ; ROBERT BOSCH GMBH 70469 STUTTGART DE**17) Family number: 12580337** (US5524725A)

© PatBase

Title: Automatic chain tension adjustor

Abstract: A chain drive which has an automatic chain tension adjustor. The chain adjustor has a housing cover with a cover head suitable for being turned with a ratchet for transferring torque to an adjacent motor spring. The motor spring is connected to a shaft within a chain adjustor screw housing. A chain adjustor screw within the shaft is urged by the motor spring through the shaft and housing against the chain adjustor arm. The arm pushes the chain and reduces slack in the chain.

Classifications:

International (IPC 8-9): F16H7/08 (Advanced/Invention);
F16H7/08 (Core/Invention)

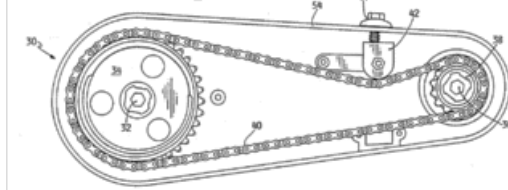
International (IPC 1-7): F16H7/12 F16H7/18

CPC: F16H7/08 F16H2007/0872 F16H2007/0893

European: F16H7/08 R16H7/08T3 R16H7/08Z2

US: 180/182 180/190 180/231 474/111 474/133

PatBase - US5524725_A

**Family:**

Publication number	Publication date	Application number	Application date
US5524725 A	19960611	US19940269668	19940701

Priority:

US19940269668 19940701

Probable Assignee: ARCTIC CAT INC**Assignee(s):** (std): ARCTCO INC**Assignee(s):** ARCTIC CAT INC ; BANK OF AMERICA NA**Inventor(s):** (std): SCHANTZEN WAYNE G**18) Family number: 56147388** (US2015267792A)

© PatBase

Title: PNEUMATICALLY ASSISTED CONTINUOUSLY VARIABLE TRANSMISSION

Abstract: A CVT pulley includes a shaft having disposed thereon, a first and second sheave, and a spider. A spring biases the sheaves away from one another. The axially moveable second sheave is disposed axially between the axially fixed spider and the first sheave. A plurality of centrifugal weights, connected to either the spider or the second sheave, have a portion that moves radially outward with rotation of the shaft. The axial distance between the spider and the second sheave depends at least in part on the radial position of the portion which depends on the rotational speed. At least one cylinder is adapted to receive fluid. At least one piston, rotatable with the shaft, is adapted to move in the at least one cylinder in response to fluid

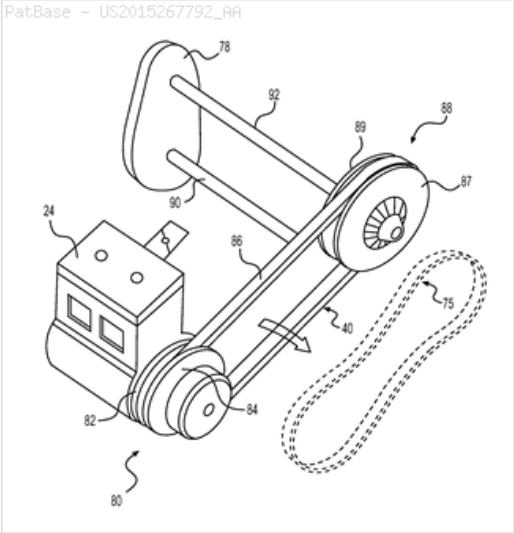
being received therein, thereby selectively exerting force on one of the sheaves towards the other. CVTs and vehicles are also disclosed.

Classifications:

International (IPC 8-9): B62M9/04 F16H55/56 F16H59/00 F16H61/00 F16H61/662 F16H63/00 F16H63/06 F16H7/08 F16H9/12 F16H9/18 (Advanced/Invention)

CPC: F16H7/08 F16H55/56 F16H9/12 B62M9/04 F16H55/563 F16H63/065 F16H9/125 F16H61/6624

US: 1/1 474/14



Family:

Publication number	Publication date	Application number	Application date
CA2886623 AA	20150327	CA20132886623	20130927
CN104903618 A	20150909	CN201380051077	20130927
EP2901043 A2	20150805	EP20130841958	20130927
EP2901043 A4	20160727	EP20130841958	20130927
RU2015112673 A	20161120	RU20150112673	20130927
RU2653333 C2	20180507	RU20150112673	20130927
US2015267792 AA	20150924	US20130432383	20130927
US9476486 BB	20161025	US20130432383	20130927
WO14052725 A2	20140403	WO2013US62125	20130927
WO14052725 A3	20150716	WO2013US62125	20130927

Priority:

US20120707241P 20120928 US20130432383 20130927 WO2013US62125 20130927

Probable Assignee: BRP ROTAX GMBH AND CO KG

Assignee(s): (std): BRP POWERTRAIN GMBH AND CO KG ; BRP ROTAX GMBH AND CO KG ; BRP US INC

Assignee(s): HINDINGER THOMAS ; HOCHMAYR MARKUS ; KORENJAK NORBERT ; RIOUX ROGER ; WILFLINGER JOHANN

Inventor(s): (std): WILFLINGER JOHANN ; RIOUX ROGER ; KORENJAK NORBERT ; HOCHMAYR MARKUS ; HINDINGER THOMAS ; WILFLINGER JOHANN ; RIU ROZHER ; KORENJAK NORBERT ; KHOKHMAJR MARKUS ; HINDINGER THOMAS

Agent(s): BCF LLP; BOYCE CONOR; MV KHMARA; CUTLER JONATHAN DAVID

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 ZA ZM ZW

19) Family number: 23202394 (DE20020350U1)

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Title: SPANNVORRICHTUNG FUER FOERDER- ODER ANTRIEBSMITTEL Tensioning DEVICE FOR DELIVERY OR DRIVE MEANS (Machine translation)

Abstract: Source: DE20020350U1 [DE] (Claim 1) 1. Vorrichtung zum Spannen von endlosen Foerder-oder Antriebs- mitteln, wie Rollenketten und Rundgliederketten, Zahn-oder Keilriemen, mit einem sich an einer Seite des Foerder-bzw. Antriebsmittels anlegenden Druckkoerper, dadurch gekennzeichnet, dass der Druckkoerper den Endbogen (3) bzw. Endschenkel eines in Seitenansicht etwa S-bzw. Z-foermigen Kunststoffelementes (1) bildet, wobei das dem Druckkoerper (3) gegenueberliegende Ende des S-Bogens bzw. Z-Schenkels als Montageelement (4) fuer die Spannvorrichtung ausgebildet ist.

Machine translation: (Claim 1) 1. , Like roller chains and round link chains, tooth or drive belts average themselves device for stretching endless promote or drive, with one at a side Foerder-bzw. Propellant Druckkoerper putting on, by the fact characterized that the Druckkoerper the final elbow (3) and/or final thigh one in side view about S-and/or. Z-shaped Kunststoffelement width unit (1) forms, whereby that is designed for the tightener the Druckkoerper (3) gegenueberliegende gende end of the S-elbow and/or Z-thigh as assembly element (4).

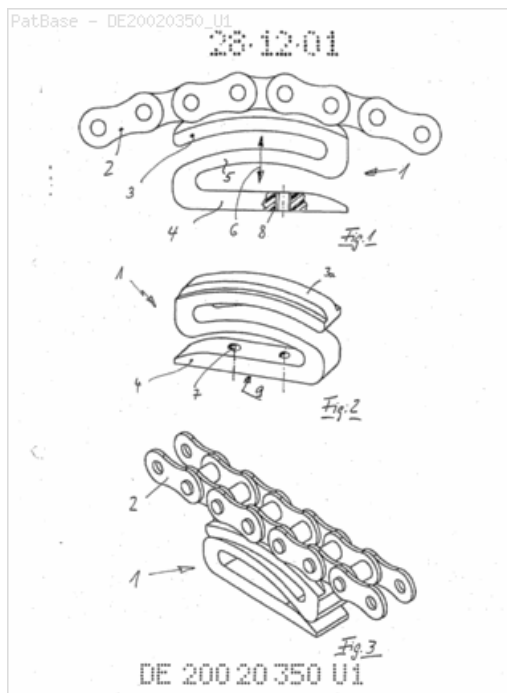
Classifications:

International (IPC 8-9): F16H7/08 (Advanced/Invention); F16H7/08 (Core/Invention)

International (IPC 1-7): F16H7/08

CPC: F16H7/08 F16H2007/0804 F16H2007/0872

European: F16H7/08 R16H7/08A1 R16H7/08T3



Family:

Publication number	Publication date	Application number	Application date
DE20020350 U1	20020328	DE20002020350U	20001201

Priority:

DE20002020350U 20001201

Probable Assignee:

MURTFELDT KUNSTSTOFFE GMBH

Assignee(s): (std):

MURTFELDT KUNSTSTOFFE GMBH

20) Family number: 1221403 (US3931745A)

© PatBase

Title: Tensioning device for a flexible drive element

Abstract: A drive chain trained about a drive and driven sprockets of different diameters is kept in proper tension by a tensioning device comprising a tensioning member located between the sprockets and extending transversely to the line of centers passing through the axes of rotation of the sprockets. The tensioning member is in the form of a rectangular block defining an opening through which the drive chain passes, opposite sides of the opening being bounded by inwardly facing abutment surfaces respectively engaging the opposite runs of the chain. The tensioning member is biased towards the larger of the sprockets and against the chain through means of a coil compression spring mounted on a guide rod which passes through an opening in the tensioning member and is pivotally mounted on and for swinging movement to the opposite sides of the line of centers of the sprockets at a location between the tensioning member and the smaller of the sprockets.

Classifications:

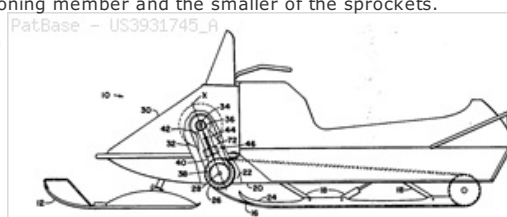
International (IPC 8-9): B62D55/104 B62M27/02 F16H7/08 F16H7/10 F16H7/12 (Advanced/Invention); B62D55/104 B62M27/00 F16H7/08 F16H7/10 F16H7/12 (Core/Invention)

International (IPC 1-7): B62D55/12 B62D55/30 F16H7/10 F16H7/12

CPC: F16H7/08

European: F16H7/08

US: 474/111 74/242.11S



Family:

Publication number	Publication date	Application number	Application date
CA1032993 A1	19780613	CA19750234175	19750826
JP51051835 A2	19760507	JP19750077500	19750623
US3931745 A	19760113	US19740518586	19741029

Priority:

US19740518586 19741029

Probable Assignee:

DEERE AND CO

Assignee(s): (std):

DEERE AND CO

Assignee(s):

DEERE AND COMPANY ; DEIIA ANDO CO ; DOBBERPUHL DALE R ; FIRST NATIONAL BANK OF MINNEAPOLIS ; POLARIS IND

Inventor(s): (std):

DOBBERPUHL DALE RUDOLPH ; DOBBERPUHL DALE R ; DEERU RUDORUFU DOBAAPUURU

21) Family number: 29823420 (GB484128A)

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Title: Improvements in tensioning devices for transmission chains and the like

Abstract: 484,128. Dashpots. WELLER, J. Nov. 30, 1936, Nos. 32729/36, 787/37, 21576/37, and 27519/37. [Class 108 (iii)]

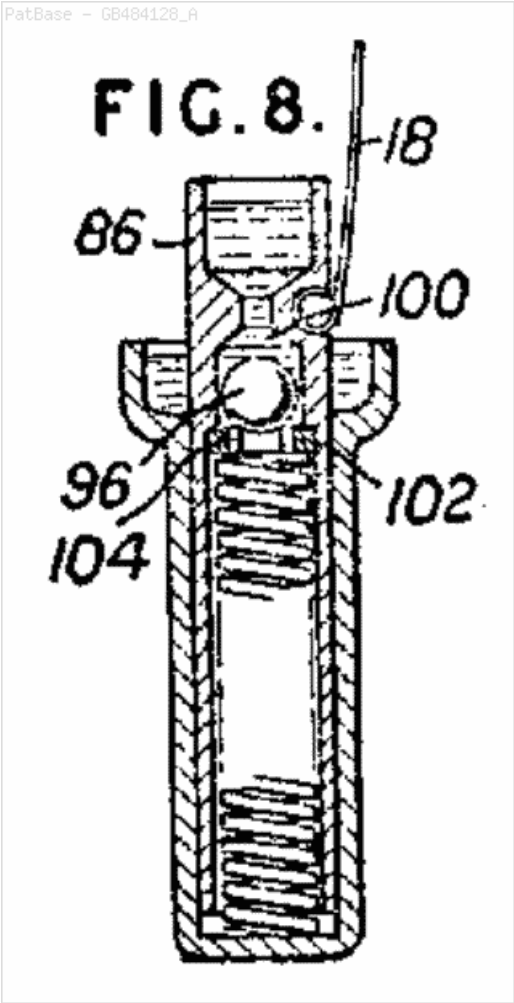
[Also in Group XXIV] The plunger 86 is provided with a loose ball 96 movable between a seat 100 and a seat 102 slotted at 104. For slow movements of the plunger the liquid flows past the ball and through the slot, but if the plunger is suddenly pressed into the cylinder, the ball first moves up to the seat 100 and very little resistance is encountered by the plunger, but when the ball is seated the further movement of the plunger is almost entirely prevented. The dashpot is applied in a tensioning device for transmission chains, belts and c. in which a flexible strip or slipper 18 presses resiliently against the chain and c. The dashpot allows the slipper to yield somewhat to take up irregularities in the drive, but a considerable return movement is almost entirely prevented. Specification 273,823, [Class 80 (i)], is referred to in the second Provisional Specification.

Classifications:

International (IPC 8-9): F16H7/08 (Advanced/Invention);
F16H7/08 (Core/Invention)

CPC: F16H7/08 F16H7/0836 F16H7/0848 F16H2007/0804
F16H2007/0806 F16H2007/0812 F16H2007/0853 F16H2007/0859
F16H2007/0872 F16H2007/0891 F16H2007/0893

European: F16H7/08 F16H7/08D3 F16H7/08R R16H7/08A1
R16H7/08A2 R16H7/08A5 R16H7/08R2 R16H7/08R4 R16H7/08T3
R16H7/08Z1 R16H7/08Z2



Family:

Publication number	Publication date	Application number	Application date
GB484128 A	19380502	GB19360032729	19361130

Priority:

GB19360032729 19361130

Probable Assignee:

JOHN WELLER

Assignee(s): (std):

JOHN WELLER

22) Family number: 49768433 (US2011256930A)

© PatBase

Title: DIRECTIONAL GAME CONTROLLER

Abstract: The invention has for object a game controller having an actuator (2, 102) mobile in rotation in relation to a fixed part (3, 103), in such a way as to simulate a control of the rotation of a steering column of a simulated vehicle. According to the invention, the game controller implements means for detecting the displacement in rotation of the actuator (2, 102) comprising at least one Hall effect or magnetoresistive effect detecting unit, constituted of at least two elements, of which a permanent magnet and a magnetic sensor (24, 124). At least during the rotation of the actuator (2, 102), a first element is integral in rotation with the actuator (2, 102) and a second element is integral in rotation with said fixed part (3, 103).

Classifications:

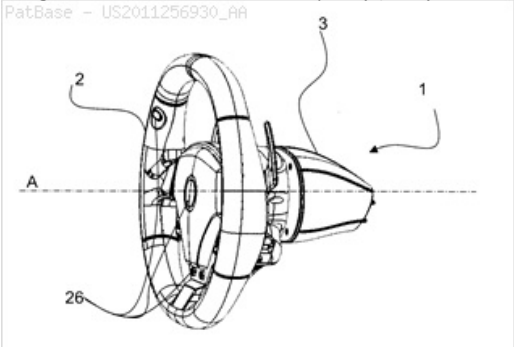
International (IPC 8-9): A63F13/02 A63F13/06 A63F13/20 A63F13/21
A63F13/245 A63F13/803 A63F9/00 A63F9/24 B62D1/10 G05G1/10
G06F3/03 G06F3/033 G06F3/0362 (Advanced/Invention);

A63F13/24 A63F13/285 (Advanced/Non-invention)

CPC: G06F3/0362 A63F2300/1043 A63F13/21 F16H7/08 A63F13/24
A63F13/245 A63F13/285 A63F13/803 A63F2300/1037
A63F2300/1062 A63F2300/8017

European: A63F13/06 G06F3/0362 K63F300/10F K63F300/10M
K63F300/10S K63F300/80D

US: 1/1 273/148B 273/148R 463/36 463/36P 463/37 463/37P 463/38
463/47



Family:

Publication number	Publication date	Application number	Application date
■ CN102218217 A	20111019	CN201110098358	20110419
■ CN102218217 B	20160120	CN201110098358	20110419
■ EP2377587 A1	20111019	EP20110163062	20110419
■ EP2386334 A1	20111116	EP20110165937	20110512
■ FR2958862 A1	20111021	FR20100052966	20100419
■ FR2958863 A1	20111021	FR20100058873	20101027
■ FR2958863 B1	20130712	FR20100058873	20101027
■ FR2959942 A1	20111118	FR20100053757	20100512
■ FR2959942 B1	20130614	FR20100053757	20100512
■ US2011256930 AA	20111020	US20110090052	20110419
■ US2011281649 AA	20111117	US20110106256	20110512
■ US2015119145 AA	20150430	US20140584373	20141229
■ US2018272233 AA	20180927	US20180887786	20180202
■ US8672758 BB	20140318	US20110106256	20110512
■ US8920240 BB	20141230	US20110090052	20110419
■ US9884250 BB	20180206	US20140584373	20141229

Priority:

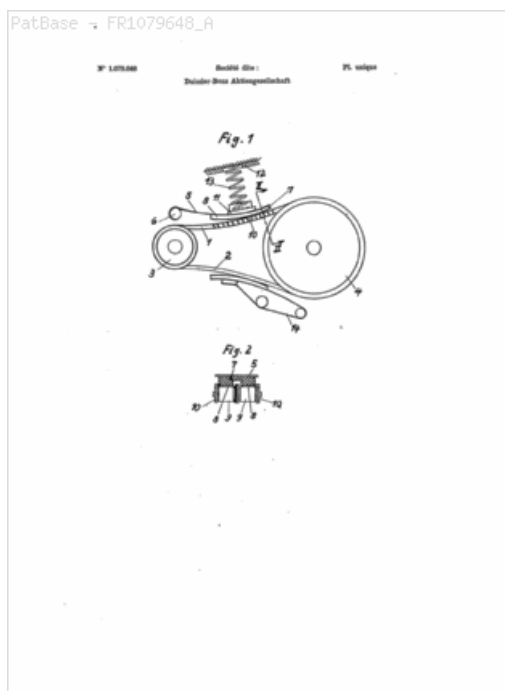
FR20100052966 20100419 FR20100053757 20100512 FR20100058873 20101027
US20110090052 20110419 US20140584373 20141229 US20180887786 20180202

Probable Assignee: GUILLEMOT CORP**Assignee(s):** (std): GUILLEMOT CORP ; GUILLEMOT CORP S A ; JAOUEN JEAN YVES ; PENNANEAC H PATRICK ; RAULET GILLES**Assignee(s):** GUILLEMOT S A CORP ; GUILLEMOT CORP SA**Inventor(s):** (std): RAULET GILLES ; PENNANEAC H PATRICK ; JEAN YVES JAOUEN ; JAOUEN JEAN YVES**Inventor(s):** GILLES RAULET ; PATRICK PENNANEAC H ; PENNANEAC H PATRICK**Agent(s):** SAINT MARC ETIENNE CHRISTOPHE ANDREAS; BIRET LUDOVIC; PATRICE VIDON; CABINET PATRICE VIDON; BLAKELY SOKOLOFF TAYLOR AND ZAFMAN 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**23) Family number: 19712504 (FR1079648A)**

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Title: Dispositif de tension pour une commande a chaine avec des galets prevus pour chaque maillon Tensioning device for a command string with pebbles planned for each link (Machine translation)

Abstract: Source: FR1079648A [FR] [Source: Claim 1] 1 Sur la bande de tension, est vulcanise ou est fixe autrement un element profile en caoutchouc ou un element analogue, dont la surface exterieure agissant sur la chaine presente un profil en saillie correspondant a la largeur des surfaces frottantes des galets, de telle maniere que les galets roulent pratiquement sans bruit et sans usure sur les sur faces en saillie de l'element profile en caoutchouc; **Machine translation:** [Source: Claim 1] 1 On the vulcanise or is otherwise fixed voltage band, is a profiled element of rubber or an element like, whose exterior surface acting on the chain has a projecting profile corresponding to the width of the frottantes surfaces of the rollers, such that the rollers roll virtually without noise and without wear on the on faces projecting from the rubber profiled element;

Classifications:**International (ipc 8-9):** F16H7/08 (Advanced/Invention); F16H7/08 (Core/Invention)**International (ipc 1-7):** F16H7/08**CPC:** F16H7/08 F16H2007/0893**European:** F16H7/08 R16H7/08Z2**Family:**

Publication number	Publication date	Application number	Application date
■ FR1079648 A	19541201		19530626

Priority:

19520714

Probable Assignee:

DAIMLER AG

Assignee(s): (std):

DAIMLER AG ; DAIMLER BENZ AG

Assignee(s):

DAIMLER BENZ AKTIENGESELLSCHAFT

Inventor(s): (std):

PAULING HANS

24) Family number: 4743511 (DE3623903C1)

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Title: Device for the automatic tensioning of a chain

Abstract: The invention relates to a device for the automatic tensioning of a chain or the like, with a housing with a guiding part for an axially movable piston, with a spring which acts on the piston via a spiral feed drive and pushes the piston against the chain, and with a mechanical return-stroke lock for the piston. Known devices of this kind have a large number of parts and have the disadvantage of unilateral and essentially point-type support in the event of a reaction force of the spring. During the feed motion of the piston, support is also of the point type, and this increases wear. According to the provisions of the invention, a self-locking screw-thread engagement is provided between the piston and the guiding part, and the spring is at least one torsion spring prestressed between the housing and the piston. This leads to large-area and low-wear supporting surfaces for each direction of motion of the piston.

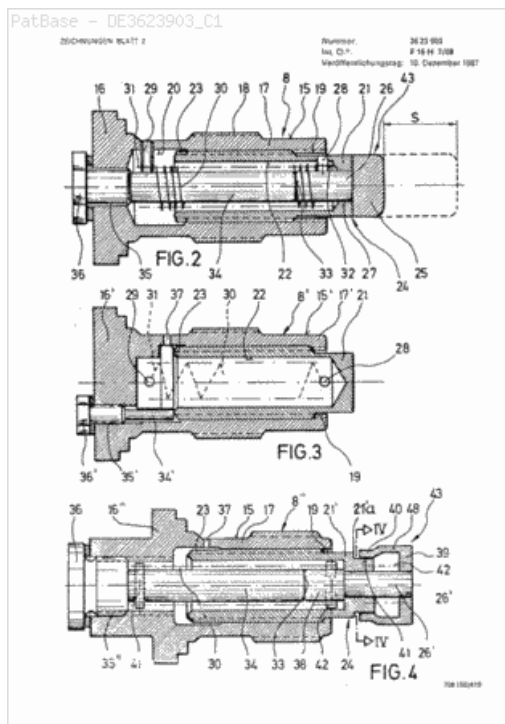
Classifications:

International (IPC 8-9): F01L1/02 F16H7/08 (Advanced/Invention); F16H7/18 (Advanced/Non-invention)

International (IPC 1-7): F01L1/04 F16H7/08

CPC: F01L1/02 F01L1/022 F02B2275/08 F02B2275/18 F16H7/08 F16H7/0829 F16H7/18 F16H2007/0806

European: F01L1/02 F01L1/02A F16H7/08 R01L1/02A R01L250/02 R02B275/08 R02B275/18 R16H7/08A2 R16H7/08D R16H7/18

**Family:**

Publication number	Publication date	Application number	Application date
DE3623903 C1	19871210	DE19863623903	19860715

Priority:

DE19863623903 19860715

Probable Assignee: WINKELHOFER AND SOEHNE JOH**Assignee(s):** (std): WINKELHOFER AND SOEHNE JOH ; WINKLHOFER AND SOEHNE JOH**Assignee(s):** JOH WINKLHOFER AND SOEHNE 8000 MUENCHEN DE**Inventor(s):** (std): BIEDERMANN ADAM**Inventor(s):** BIEDERMANN ADAM 8039 PUCHHEIM DE**25) Family number: 32197523** (DE202005007174U1)

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Title: CHAIN ADJUSTING DEVICE IN PARTICULAR FOR ATV, COMPRISING TWO ADJUSTING BOLTS INSERTED INTO COMPLEMENTARY SLEEVES

Abstract: The chain adjusting device is positioned between the upper (51) and the lower (52) engine (6) carrying frame and is assembled of a central holding element (511) joined with a shock absorbing element to the upper frame (51) and two bolts (7), each provided with two threaded segments. The bolts (7) are inserted laterally between the frames (51, 52) resting with their lower ends in complementary sleeves (521) and attached with their upper ends to extensions protruding from both sides of the front part of the upper frame (51).

Classifications:

International (IPC 8-9): F16H7/08 (Advanced/Invention); F16H7/08 (Core/Invention)

International (IPC 1-7): F16H7/08

CPC: F16H7/08

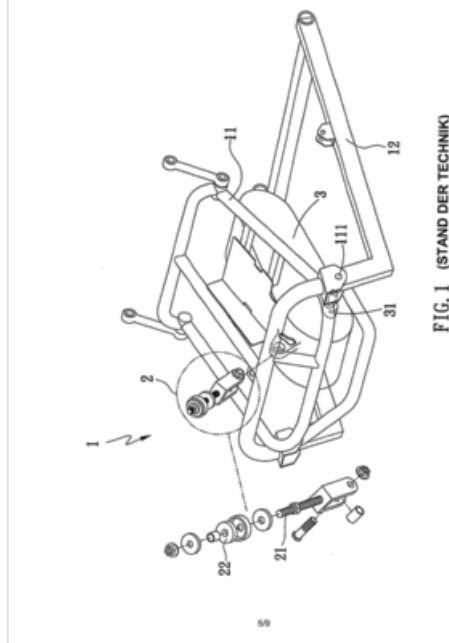


FIG. 1 (STAND DER TECHNIK)

Family:

Publication number	Publication date	Application number	Application date
DE202005007174 U1	20050804	DE200520007174U	20050504

Priority:

DE200520007174U 20050504

Probable Assignee: MOTIVE POWER IND CO**Assignee(s):** (std): MOTIVE POWER IND CO ; MOTIVE POWER INDUSTRY CO**26) Family number: 74257553** (DE102017126000A1)

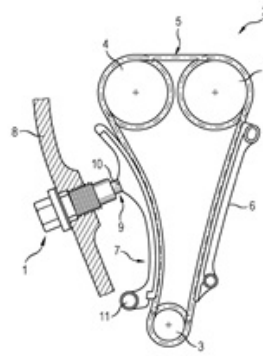
© PatBase

Title: SPANNVORRICHTUNG MIT EINEM BETRIEBSTEMPERATURABHAENGIGEN VORSPANNUNGSAKTUATOR Clamping DEVICE HAVING AN OPERATING TEMPERATURE-DEPENDENT BIAS ACTUATOR (Machine translation)

Abstract: Source: DE102017126000A1 [DE] Die vorliegende Erfindung betrifft eine Spannvorrichtung fuer einen Endlostrieb, insbesondere einen Kettenspanner fuer einen Steuerkettentrieb eines Verbrennungsmotors, mit einem Spannergehaeuse, einem in einer Kolbenbohrung des Spannergehaeuses bewegbar angeordneten Spannkolben, einen den Spannkolben in Spannrichtung vorspannenden Spannfeder, die in einem in der Kolbenbohrung vom Spannkolben begrenzten Druckraum fuer Hydraulikfluessigkeit angeordnet ist, und mit einem Vorspannungsaktuator, mittels dem im Betrieb die auf den Spannkolben wirkende Vorspannung der Spannfeder betriebstemperaturabhaengig beeinflussbar ist. Der Vorspannungsaktuator weist ein sich betriebstemperaturabhaengig veraenderndes Stellelement, ein mit dem Stellelement in Reihe geschaltetes Federelement und ein zwischen dem Stellelement und dem Federelement angeordneten Aktuatorkolben auf, wobei der Aktuatorkolben mit einem die Spannfeder einseitig abstuetzenden Auflager gekoppelt ist, um den Federweg der Spannfeder betriebstemperaturabhaengig zu veraendern. Darueber hinaus betrifft die Erfindung einen Endlostrieb, insbesondere einen Steuerkettentrieb eines Verbrennungsmotors mit einer solchen Spannvorrichtung. **Machine translation:** The present invention relates to a tensioning apparatus for an endless train, in particular a chain tensioner for control chain drive of an internal combustion engine, with a tensioner housing, a movable in a piston bore of the tensioner housing arranged clamping piston, a piston biasing the clamping in the tensioning direction in a tension spring, the piston bore from the clamping rams limited space for hydraulic fluid pressure and with a bias on the chuck by means of the actuator, in the operating piston bias of the tension spring operating temperature dependent, can be influenced. The Bias actuator has a varying operating temperature dependent control element, with the setting element in series and a spring element between the setting element and an actuator piston on the spring element, wherein the actuator piston with a one-sided the tension spring is coupled to the bearing abtst protected spring deflection of the tension spring to vary depending on operating temperature. In addition, the invention relates to an endless train, in particular a control chain drive of an internal combustion engine with such a clamping device.

Classifications:**International (IPC 8-9):** F02B67/06 F16H7/08 (Advanced/Invention)

CPC: F01L1/022 F16H7/08 F16H7/0834 F16H7/18 F16H2007/0808
F16H2007/0812 F16H2007/0859 F16H2007/0872 F16H2007/0893
F16H2007/0897



Family:

Publication number	Publication date	Application number	Application date
DE102017126000 A1	20190509	DE201710126000	20171107

Priority:

DE201710126000 20171107

Probable Assignee: IWIS MOTORSYSTEME GMBH AND CO KG

Assignee(s): (std): IWIS MOTORSYSTEME GMBH AND CO KG

Inventor(s): (std): GOERMER ANDREAS ; BERG SEBASTIAN

27) Family number: 51960572 (EP2503182A2)

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Title: VEHICLE COMPRISING SUSPENSION SYSTEM FOR COMPRESSOR

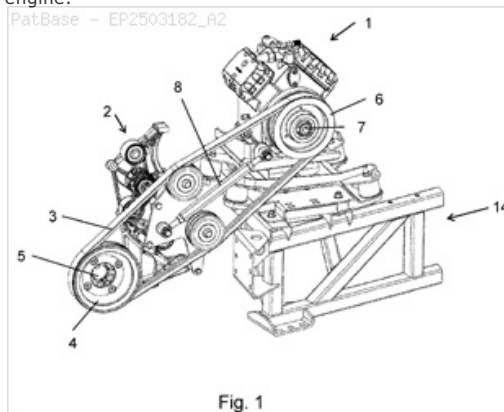
Abstract: The invention relates to a vehicle comprising a suspension system for a compressor 1 situated close to an engine 2 in a vehicle. The vehicle comprises a belt 3 arranged in a belt circuit which runs over a first wheel 4 with a first axis of rotation 5 relative to the engine and a second wheel 6 with a second axis of rotation 7 on the compressor. The vehicle also comprises a strut 8 which is provided with a first fastening point 9 on the engine and a second fastening point 10 pertaining to the compressor and which links together the engine and the compressor. The vehicle further comprises an insulator arrangement 11 situated close to the compressor for suspension of the compressor relative to vehicle's chassis with a gentle insulating action so that the compressor installation's setting-up frequency is between 10 and 25 Hz in order to damp the compressor's vibrations and the vibrations which propagate from the engine.

Classifications:

International (IPC 8-9): B60H1/32 B60K5/12 F16F15/02 F16F15/04 F16F15/06 F16H7/08 (Advanced/Invention)

CPC: B60K5/1216 B60K2025/022 F16F15/04 F16F15/02 F16H7/08

European: F16F15/04



Family:

Publication number	Publication date	Application number	Application date
BR102012006369 A2	20131105	BR20121006369	20120321
CN102689579 A	20120926	CN201210124578	20120322
CN102689579 B	20150617	CN201210124578	20120322
EP2503182 A2	20120926	EP20120160302	20120320
EP2503182 A3	20171213	EP20120160302	20120320
EP2503182 B1	20190612	EP20120160302	20120320
SE201150253 A1	20120923	SE20110050253	20110322
SE537069 C2	20141223	SE20110050253	20110322

Priority:

SE20110050253 20110322

Probable Assignee: SCANIA CV AB**Assignee(s):** (std): SCANIA CV AB**Inventor(s):** (std): ALMALIKI MOKHLOS ; FRIBERG PAER ; KHODADAD KUCHEKI FARDAD ; PAER FRIBERG ; MOKHLOS ALMALIKI ; FARDAD KHODADAD KUCHEKI**Agent(s):** SCANIA CV 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**28) Family number: 1011636** (US3673884A)

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Title: CHAIN TENSIONING DEVICE FOR SNOWMOBILE TYPE TRANSMISSION

Abstract: (Claim 1) 1. A snowmobile, comprising: a chain case assembly including means for transmitting power from the engine to the endless track of the snowmobile, said assembly including a housing, a pair of spaced-apart parallel shafts, each having one end extending inside said housing at a fixed distance therebetween, means for applying the engine power to one of said shafts for applying torque to said one shaft in a first direction and means for decelerating the said one shaft by applying torque to said one shaft in a second direction opposite to the first direction, the other of said shafts being connected to said endless track by drive sprocket wheel means; sprocket means mounted on each end of said shafts; endless chain means entrained around said sprocket means; said chain means defining opposite first and second intermediate strands extending between said sprocket means; the first intermediate strand being under tension and the second intermediate strand being slack when the engine power is applied to the first shaft in said first direction, and the second intermediate strand being under tension and the first intermediate strand being slack when the decelerating means is applying torque to the first shaft in said second direction, a pair of separate tensioners pivotally mounted to said housing; each said tensioner disposed adjacent an associated intermediate strand and including a shoe element having a wear-resistant surface made of hard material in contact with said associated strand; said tensioners further including spring means for causing each said surface to be maintained in contact engagement with said associated intermediate strand and to exert thereon a force sufficient to take up substantially all slack in said associated strand to maintain said chain means under constant tension independently of the direction of the direction of the torque applied to said one shaft by said applying means and by said decelerating means.

Classifications:**International (IPC 8-9):** B62D55/07 B62D55/30 B62M27/02

F16H7/08 (Advanced/Invention);

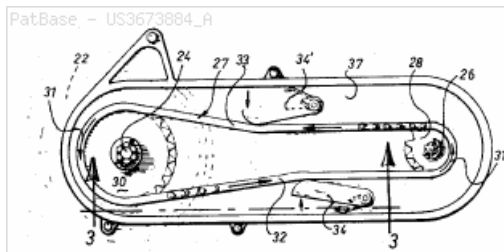
B62D55/00 B62D55/08 B62M27/00 F16H7/08 (Core/Invention)

International (IPC 1-7): F16H7/08 F16H7/10 F16H7/12**CPC:** B62M9/16 F16H7/08 B62D55/07 B62D55/30 B62M27/02

B62M2027/023 F16H2007/081 F16H2007/0872 F16H2007/0874

European: B62D55/07 B62D55/30 B62M27/02 F16H7/08

L62M27/02D R16H7/08A4 R16H7/08T3 R16H7/08T4

US: 180/190 180/9.64 474/111 74/242.11C 74/242.11S 74/242.15R**Family:**

Publication number	Publication date	Application number	Application date
US3673884 A	19720704	US19700089665	19701116

Priority:

US19700089665 19701116

Probable Assignee:

BOMBARDIER LIMITEE

Assignee(s): (std):

BOMBARDIER LTD

Assignee(s):

BOMBARDIER LIMITEE

Inventor(s): (std):

SOUTHIERE BERTRAND

Inventor(s):

BERTRAND SOUTHIERE

29) Family number: 11662646 (US5934234A)

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Title: ASSEMBLY STRUCTURE OF A SHAFT HAVING A FIXED SPROCKET

Abstract: A shaft having a sprocket fixed at one end thereof is reliably assembled to the supporting wall of an engine, with a reduced number of parts and man-hours required for assembly. A camshaft having a sprocket fixed at one end thereof is installed by engaging a pair of ball bearings with supporting holes on supporting walls of the engine. A crescent-shaped step partially cut in the loosing direction of an endless chain is formed on one supporting hole. An outer race of one ball bearing on the camshaft is engaged with the step. An endless chain is wound around the sprocket, and the one ball bearing is moved into the supporting hole, and the other ball bearing is correctly engaged with the other supporting hole, thereby completing assembly of the camshaft.

Classifications:**International (IPC 8-9):** F01L1/02 F01L1/04 F01L1/047 F02B61/02

F02B75/16 F16H7/06 F16H7/08 (Advanced/Invention);

F02B75/02 F02F1/24 F16H7/08 (Advanced/Non-invention);

F01L1/02 F01L1/04 F02B61/00 F02B75/00 F16H7/00

F16H7/08 (Core/Invention);

F02B75/02 F02F1/24 F16H7/08 (Core/Non-invention)

International (IPC 1-7): F01L1/04 F16H7/06**CPC:** F01L1/02 F01L1/022 F01L1/026 F01L1/047 F01L2303/00

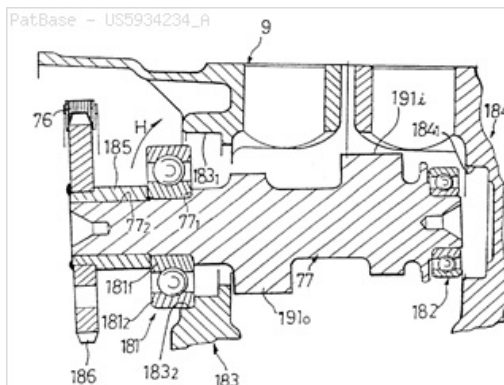
F02B61/02 F02B75/16 F02B2075/027 F02F2001/245 F05C2201/021

F16H7/08 F16H2007/0872 Y10T29/49231 Y10T74/2101

European: F01L1/02 F01L1/02A F01L1/047 F02B61/02 F02B75/16

F16H7/08 R01L1/02 R01L1/02C R01L103/00 R02B75/02S4

R02F1/24D2 R05C201/02A R16H7/08T3

US: 123/90.31 123/90.6 29/888.01 74/567

Family:

Publication number	Publication date	Application number	Application date
JP10122313 A2	19980515	JP19960281149	19961023
JP3811232 B2	20060816	JP19960281149	19961023
US5934234 A	19990810	US19970957785	19971024

Priority:

JP19960281149 19961023 US19960029475P 19961024 US19970957785 19971024

Probable Assignee: HONDA GIKEN KOGYO KK

Assignee(s): (std): HONDA MOTOR CO LTD

Assignee(s): HONDA GIKEN KOGYO KABUSHIKI KAISHA ; HONDA GIKEN KOGYO KK

Inventor(s): (std): SHICHINOHE TAKASHI ; FUKUZAWA SUMIKO

30) Family number: 61323667 (DE102014213002A1)

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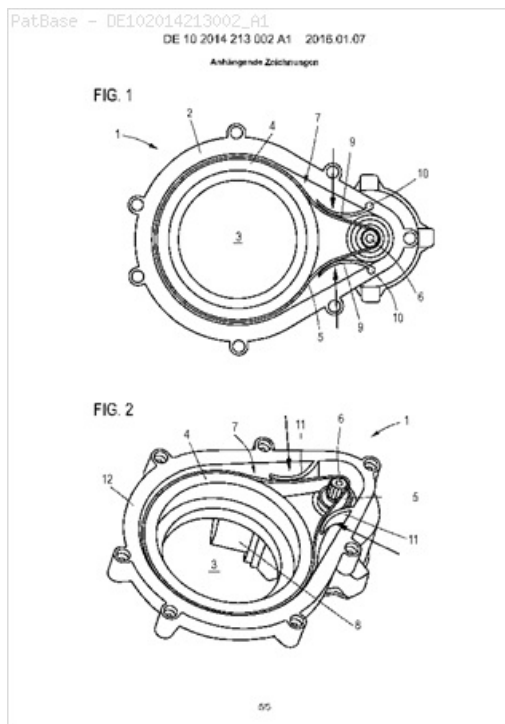
Title: ANTRIEBSVORRICHTUNG DRIVE DEVICE (Machine translation)

Abstract: Source: DE102014213002A1 [DE] Antriebsvorrichtung (1) zum Antreiben eines drehgelagerten Gegenstands, umfassend ein Gehäuse (2, 12) mit einer Durchbrechung (3), mindestens zwei Riemenraeder (4, 6) und einen endlos umlaufenden, die Riemenraeder umschlingenden Riemen (5), wobei das eine Riemenrad (6) mit einem Mittel zum Antrieb des Riementriebs (7) und das andere Riemenrad (4) mit dem durch die Durchbrechung (3) in das Gehäuse (2, 12) einfuehrbaren Gegenstand verbindbar ist, und wobei mindestens ein an der Riemenaußenseite angreifendes, gehaeuseseitig angeordnetes Federelement (9, 11) zur Vorspannung des Riemens (5) sowie zur Erhoehung des Umschlingungswinkels an den Riemenraedern (4, 6) vorgesehen ist. **Machine translation:** Drive device (1) for driving a rotatably mounted object, comprising a housing (2, 12) with an opening (3) at least two pulleys (4, 6) and an endlessly circulating, the pulleys encircling belt (5), that a belt pulley (6) with a means for driving the belt drive (7) and the other pulley (4) with the through opening (3) in the housing (2, 12) insertable object is connected, and wherein at least one of the belt outside attacking, gehaeuseseitig arranged spring element (9, 11) for biasing the belt (5) and to increase the wrap to the pulleys (4, 6) is provided.

Classifications:

International (IPC 8-9): F16H7/02 F16H7/08 (Advanced/Invention)

CPC: F16H7/02 F16H7/08 F16H7/023 F16H57/01 F16H2007/0804

**Family:**

Publication number	Publication date	Application number	Application date
DE102014213002 A1	20160107	DE201410213002	20140704

Priority:

DE201410213002 20140704

Probable Assignee: SCHAEFFLER TECHNOLOGIES AG

Assignee(s): (std): SCHAEFFLER TECHNOLOGIES AG

Assignee(s): SCHAEFFLER TECHNOLOGIES AND CO AG KG

Inventor(s): (std): HOLZBERGER MARKUS ; MARSING KILIAN ; MERSMANN SIMON

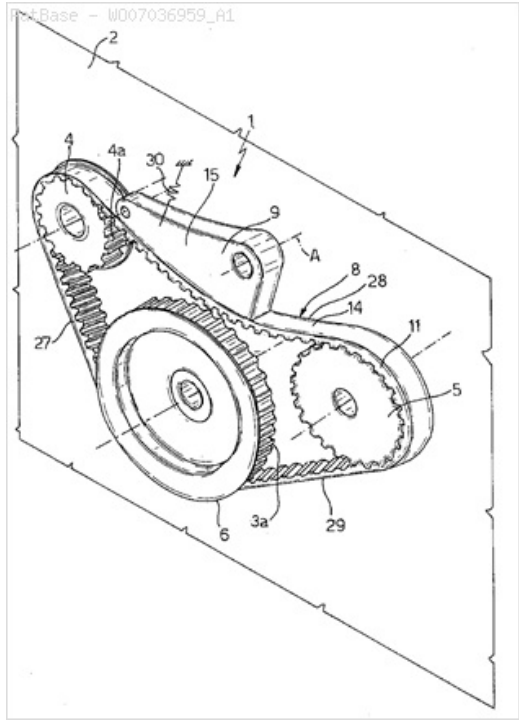
31) Family number: 34366689 (WO07036959A1)

© PatBase

Title: BELT DRIVE FOR USE IN OIL PROVIDED WITH A SHOE

Abstract: A belt drive for use in oil including a first toothed pulley (3) adapted to be connected to a motion source, at least one second toothed pulley (4; 5) adapted to be connected to an operating device, a toothed belt (8) wound around the first and the at least one second toothed pulley (3, 4; 5) and a shoe (9) defining a contact surface (16) cooperating with the toothed belt (8) and unprovided with a side containing element for the toothed belt (8).

Classifications:
International (IPC 8-9): F16H57/05 F16H7/02 F16H7/12 F16H7/18 (Advanced/Invention); F16H57/05 F16H7/00 F16H7/02 F16H7/12 (Core/Invention)
CPC: F16G1/28 F16H7/023 F16H7/08 F16H57/04 F16H2007/0806 F16H2007/0872
European: F16G1/28 F16H57/04 F16H7/02B F16H7/08 R16H7/08A2 R16H7/08T3



Family:

Publication number	Publication date	Application number	Application date
DE602005018556 D1	20100204	DE200560018556T	20050927
EP1929178 A1	20080611	EP20050802419	20050927
EP1929178 B1	20091223	EP20050802419	20050927
WO07036959 A1	20070405	WO2005IT00558	20050927

Priority:

WO2005IT00558 20050927

Probable Assignee: DAYCO EUROPE SRL

Assignee(s): (std): DAYCO EUROP SRL ; DAYCO EUROPE SRL ; DI MECO MARCO

Assignee(s): DAYCO EUROPE SRL CON UNICO SOCIO ; DAYCO EUROPE S R L CON UNICO SOCIO

Inventor(s): (std): DI MECO MARCO

Agent(s): JORIO PAOLO

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 KP KR KZ LC 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

32) Family number: 13631698 (DE19746317A1) © PatBase

Title: Tensioning system for conveyer belt chain- or belt-drive

Abstract: A chain or belt drive for a conveyer belt is pre-tensioned by oil pressure generated by a pump (1-4). The pump replaces prior art helical springs, gas or rubber cords.

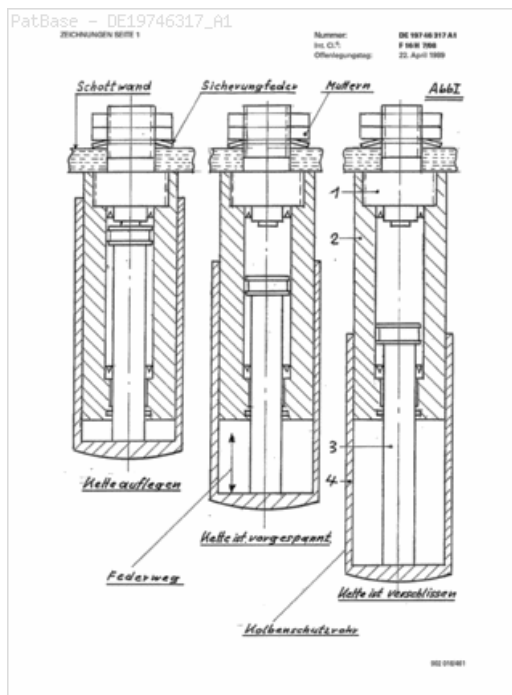
Classifications:

International (IPC 8-9): F16H7/08 (Advanced/Invention); F16H7/08 (Core/Invention)

International (IPC 1-7): F16H7/08

CPC: F16H7/08 F16H2007/0806 F16H2007/0812 F16H2007/0859

European: F16H7/08 R16H7/08A2 R16H7/08A5 R16H7/08R4



Family:

Publication number	Publication date	Application number	Application date
DE19746317 A1	19990422	DE19971046317	19971021

Priority:

DE19971046317 19971021

Probable Assignee: MENKHOFF KARLHEINZ
Assignee(s): (std): MENKHOFF KARLHEINZ
Assignee(s): MENKHOFF KARLHEINZ 58135 HAGEN DE
Inventor(s): (std): MENKHOFF KARLHEINZ
Inventor(s): MENKHOFF KARLHEINZ 58135 HAGEN DE

33) Family number: 49961734 (GB2485636A)

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Title: Chain tensioning means using a leaf spring

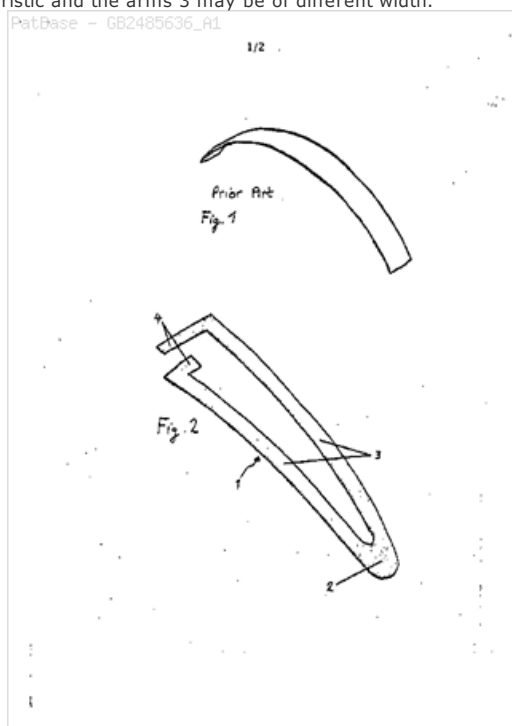
Abstract: A tensioning means for tensioning an endless traction means in an engine of a vehicle. The tensioning means having a leaf spring 1 which is arranged between a vehicle mounted locating face and a tensioning rail (7, Figure 4). The leaf spring 1 being installed in a pre-tensioned position and the leaf spring 1 being formed with two arms 3. Suspension points 4 of arms 3 may be arranged offset relative to one another and the arms 3 may be of differing lengths and have different bending radii. Preferably a guide pin (5, Figure 4) is provided on the tensioning means and is laterally encompassed by the leaf spring 1. Optionally the leaf spring 1 has a linear spring characteristic and the arms 3 may be of different width.

Classifications:

International (IPC 8-9): F16H7/08 (Advanced/Invention)

CPC: F16H7/08 F16H2007/0804 F16H2007/0893

European: F16H7/08 R16H7/08A1 R16H7/08Z2



Family:

Publication number	Publication date	Application number	Application date
■ CN102537241 A	20120704	CN201110348820	20111018
■ CN102537241 B	20160601	CN201110348820	20111018
■ DE102010051951 A1	20120524	DE201010051951	20101119
■ GB201115590 A0	20111026	GB20110015590	20110909
■ GB2485636 A1	20120523	GB20110015590	20110909

Priority:

DE201010051951 20101119

Probable Assignee: SCHAEFFLER TECHNOLOGIES GMBH**Assignee(s):** (std): SCHAEFFLER TECHNOLOGIES GMBH**Assignee(s):** SCHAEFFLER TECHNOLOGIES GMBH AND CO KG**Inventor(s):** (std): PETER TYROLLER ; TYROLLER PETER**34) Family number: 11579811 (US5314043A)**

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Title: ELEVATOR AIR CORD TIGHTENING DEVICE

Abstract: A tensioning device for an elevator air cord that forms a loop has: a support having a relatively accessible first surface and a relatively inaccessible second surface; a holder on the second surface for fixedly holding a first end of the air cord; a tensioning device on said second surface for holding a second end of said air cord such that the tension of the loop of air cord may be adjusted; and key communicating between the first and second surfaces for manipulating the tensioning device to adjust the tension of the air cord loop.

Classifications:**International (IPC 8-9):** B66B13/08 F16H7/08 (Advanced/Invention);

E05F15/14 (Advanced/Non-invention);

B66B13/02 F16H7/08 (Core/Invention);

E05F15/14 (Core/Non-invention)

International (IPC 1-7): B66B13/06 B66B13/08 F16H7/08**CPC:** E05F15/643 B66B13/08 E05Y2201/654 E05Y2201/668

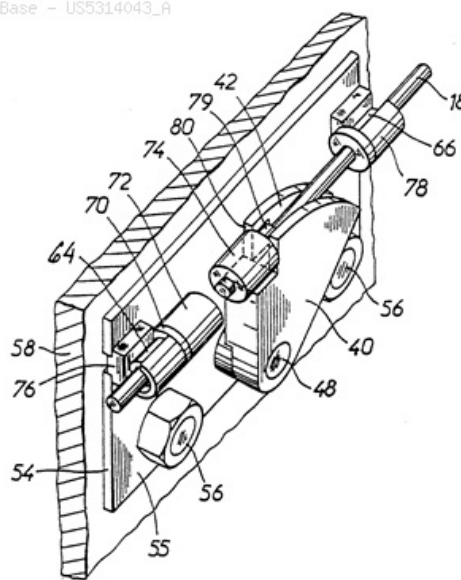
E05Y2600/10 E05Y2600/20 E05Y2900/104 F16H7/08

European: B66B13/08 F16H7/08 P05F15/14F P05Y201/654

P05Y201/668 P05Y600/10 P05Y600/20 P05Y900/104

US: 187/1A 187/313 187/413 187/51 254/199 474/101

PatBase - US5314043_A

**Family:**

Publication number	Publication date	Application number	Application date
■ FR2693781 A1	19940121	FR19920008733	19920715
■ FR2693781 B1	19941028	FR19920008733	19920715
■ US5314043 A	19940524	US19930092174	19930715

Priority:

FR19920008733 19920715

US19930092174 19930715

Probable Assignee: OTIS ELEVATOR CO**Assignee(s):** (std): OTIS ELEVATOR CO**Assignee(s):** OTIS ELEVATOR COMPANY ; OTIS ELEVATOR CY**Inventor(s):** (std): EVEZARD JEAN MICHEL A ; TAUDOU CHRISTOPHE J ; TAUDOU CHRISTOPHE ; EVEZARD JEAN MICHEL ; JEAN MICHEL EVEZARD ; CHRISTOPHE TAUDOU**35) Family number: 36052829 (US2010329995A)**

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Title: COMPOSITIONS CONTAINING LACTOFERRIN, AND METHODS OF USING SAME TO PROMOTE GROWTH OF SKIN CELLS

Abstract: The present invention relates, generally, to compositions including lactoferrin, and to compositions including both lactoferrin and lysozyme. The present invention also includes topical formulations containing the compositions, methods of making the formulations, methods of using the formulations to treat various skin disorders/conditions, to treat wounds, and to methods of producing artificial skin using the composition, and methods of treating burns using the formulation, optionally in conjunction with the application of artificial skin.

Classifications:**International (IPC 8-9):** A61K38/40 A61K38/47 A61K9/12 A61P17/00

A61P17/02 A61P17/10 A61P29/00 A61P31/00 A61P31/04 A61P31/12

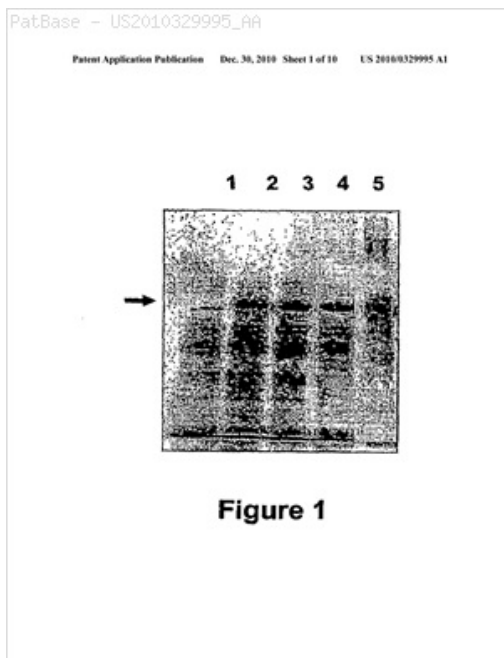
C07K1/00 C07K14/00 C07K14/415 C07K14/79 C12N5/071

C12N9/24 (Advanced/Invention);

C07K1/00 C07K14/00 (Core/Invention)

CPC: A61L15/32 A61L15/38 A61L15/46 A61L26/0047 A61L26/0066

A61L27/227 A61L27/3804 A61L27/3813 A61L27/3834 A61L27/60
A61L2300/254 A61L2300/404 A61P17/00 A61P17/02 A61P17/10
A61K38/40 A61K38/47 F16H7/08 F16H2007/0804 F16H2007/081
A61P29/00 A61P31/00 A61P31/04 A61P31/12
European: A61K38/40 A61K38/47 A61K38/48N F16H7/08
R16H7/08A1 R16H7/08A4
US: 424/45 424/45P 424/94.61 424/94.610S 435/200 435/200S
435/325 435/325S 435/395 435/395S 530/370 530/370S 530/377
530/377S 530/400 530/400S



Family:

Publication number	Publication date	Application number	Application date
EP1993592 A2	20081126	EP20070751167	20070221
EP1993592 A4	20111116	EP20070751167	20070221
US2010329995 AA	20101230	US20070280234	20070221
WO07100555 A2	20070907	WO2007US04388	20070221
WO07100555 A3	20090409	WO2007US04388	20070221

Priority:

US20060744617 20060221 US20060744617P 20060221 US20060774617P 20060221
WO2007US04388 20070221 US20070280234 20070221

Probable Assignee: VENTRIA BIOSCIENCE

Assignee(s): (std): BETHELL DELIA ; DEETER SCOTT ; SARGENT BRANDY ; VENTRIA BIOSCIENCE

Inventor(s): (std): DEETER SCOTT E ; BETHELL DELIA R ; SARGENT BRANDY ; BETHELL DELIA ; DEETER SCOTT

Agent(s): LOENNVIST GUNNEL SOLVEIG KRISTINA ET AL; ARENT FOX 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 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 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

36) Family number: 70855842 (WO18149579A1)

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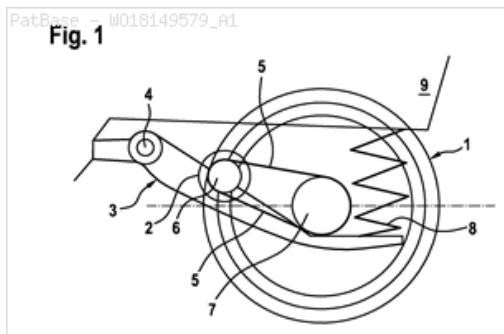
Title: WHEEL DRIVE

Abstract: A wheel drive of a vehicle comprising at least one drive motor provided on a vehicle wheel, which driver motor is supported in a rotationally fixed manner on the body or undercarriage of the vehicle, preferably on the wheel suspension, wherein the drive motor is connected to the vehicle wheel by at least one transmission stage in order to transfer torque, wherein a traction belt drive formed from pulleys and a traction belt is provided as the transmission stage, which traction belt drive has a driving belt pulley and an output belt pulley in which the traction belt engages frictionally and/or interlockingly in a partially circumferential manner to transfer a torque and a rotational speed, wherein the driving belt pulley is arranged on the drive shaft of the drive motor and the output belt pulley is arranged on the vehicle wheel and is connected to the vehicle wheel in a rotationally fixed manner.

Classifications:

International (IPC 8-9): B60K17/14 B60K7/00 F16H57/035 F16H7/02
F16H7/08 (Advanced/Invention)

CPC: B60K7/0007 B60K17/145 B60K2007/0038 B60K2007/0061
F16H7/023 F16H7/08 F16H57/035



Family:

Publication number	Publication date	Application number	Application date
DE102017202646 A1	20180823	DE201710202646	20170220
EP3582990 A1	20191225	EP20180702126	20180116
WO18149579 A1	20180823	WO2018EP50934	20180116

Priority:

DE201710202646 20170220 WO2018EP50934 20180116

Probable Assignee: CONTITECH ANTRIEBSSYSTEME GMBH**Assignee(s):** (std): CONTITECH ANTRIEBSSYSTEME GMBH**Inventor(s):** (std): FISS TIM ; FRAMENT OLIVIER ; FREIHEIT PHILIPP**Agent(s):** KILSCH ARMIN RALPH; KILSCH ARMIN**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 JO JP KE KG KH KM KN KP KR KW 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**37) Family number: 64628846** (DE102015212926A1)

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Title: VERFAHREN ZUM HERSTELLEN EINER (PRAEZISIONS-)NIETVERBINDUNG ZWEIER BAUTEILE UND PENDELSPANNER MIT FORMSCHLUESSIG VERBUNDENEM DECKEL PROCEDURES TO COVER THE CONNECTING (PRECISION) RIVET TWO COMPONENTS AND SUSPENSION CLAMPS CONNECTED WITH CARTRIDGE (Machine translation)

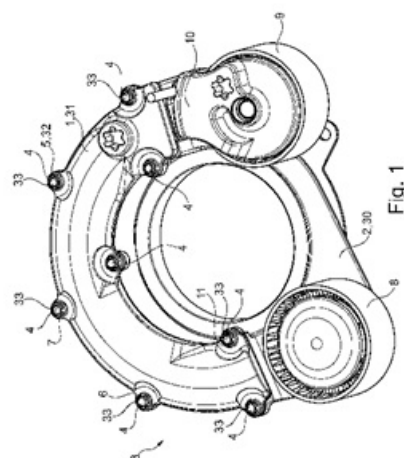
Abstract: Source: DE102015212926A1 [DE] Die Erfindung betrifft ein Verfahren zum Herstellen einer Nietverbindung zweier Bauteile (30, 31), von denen eines einen stiftartigen, zapfen- oder bolzenartigen Vorsprung (4) aufweist und das andere ein durch eine Lochlaibung (6) begrenztes Loch (32) aufweist, mit einem ersten Schritt des Einsetzens des Vorsprungs (4) in das Loch (32), einem zweiten Schritt des Verkleinerns der Lochlaibung (6) und einem dritten Schritt des Ausbildens eines Formschlusses zwischen den zu fuegenden Bauteilen (30, 31) durch zumindest abschnittsweises Vergroessern des Vorsprungs (4). Weiterhin betrifft die Erfindung einen Pendelspanner (3) fuer einen Nebenaggregat der Endloszugmitteltrieb mit einem Spannarm (2), der einen zapfen- oder bolzenartigen Vorsprung (4) aufweist, der in ein Durchgangsloch (5) eines am Spannarm (2) angebrachten Deckels (1) greift, wobei eine Lochlaibung (6) des Deckels (1) kaltumgeformt an die Aussenkontur des Vorsprungs (4) angenaehert ist und der Vorsprung (4) einen taumelnietverursachten Formschluss mit dem Deckel (1) aufweist. **Machine translation:** The invention relates to a process for the manufacture of a rivet connection of two components (30, 31), of which one tap - a pen-like, or has pin-like tab (4) and the other has a hole through a hole reveal (6) Limited (32), with the first step of inserting the protrusion (4) into the hole (32), a second step of shrinking the hole depth (6) and a third step of making out a form closure between the parts to be joined (30, 31) by at least stepwise increasing prominence (4). Continue to the endless train Central drive with a clamp arm (2), which has a zapfen - or bolt-like head start (4), which reaches into a hole (5) a cover attached to the clamp arm (2) (1) the invention concerns a pendulum release (3) for an auxiliary and a hole reveal (6) of the lid (1) cold formed the outer contour of the projection (4) is approximated and the projection (4) has an orbital riveting caused mold with the lid (1).

Classifications:**International (IPC 8-9):** B21J15/02 F02B67/06 (Advanced/Invention)**CPC:** B21J15/02 B21J15/12 B21K25/00 F02B67/06 F16H7/08 F16H2007/0806 F16H2007/0865 F16H2007/0874

PatBase - DE102015212926_A1

DE 10 2015 212 926 A1 2017.01.12

Anhängende Zeichnungen

**Family:**

Publication number	Publication date	Application number	Application date
DE102015212926 A1	20170112	DE201510212926	20150710

Priority:

DE201510212926 20150710

Probable Assignee: SCHAEFFLER TECHNOLOGIES AG**Assignee(s):** (std): SCHAEFFLER TECHNOLOGIES AG**Assignee(s):** SCHAEFFLER TECHNOLOGIES AND CO AG KG**Inventor(s):** (std): MOSCHLER ERIC**38) Family number: 48787897** (US2012259510A)

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Abstract: A method and a device for operating a belt drive of a motor vehicle. Under high loads, a high belt tension is set and during normal operation a low belt tension is set. The particular belt tension is set through a control process, taking into account the instantaneous load on the belt drive and/or taking into account the age of the belt of the belt drive.

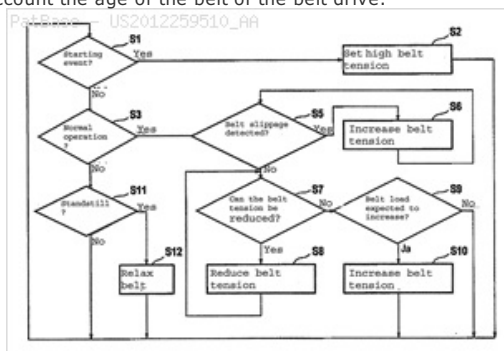
Classifications:

International (IPC 8-9): F02B67/06 F16H7/08 F16H7/10 F16H7/12 G06F7/00 (Advanced/Invention); F16H7/08 (Advanced/Non-invention)

CPC: F16H7/1281 F02B67/06 F16H2007/0806 F16H2007/0823 F16H2007/0885 F16H2007/0887 F16H2007/0893 F16H7/08 F16H7/10

European: F02B67/06 F16H7/12N4 R16H7/08A2 R16H7/08A8 R16H7/08V6 R16H7/08V7 R16H7/08Z2

US: 474/101 701/1 701/36

**Family:**

Publication number	Publication date	Application number	Application date
■ CN102575578 A	20120711	CN201080047351	20101013
■ CN105134895 A	20151209	CN201510495622	20101013
■ DE102009045880 A1	20111117	DE200910045880	20091021
■ DE502010010832 D1	20160211	DE201050010832T	20101013
■ EP2491235 A1	20120829	EP20100768726	20101013
■ EP2491235 B1	20151223	EP20100768726	20101013
■ US2012259510 AA	20121011	US20100500453	20101013
■ US8914190 BB	20141216	US20100500453	20101013
■ WO11047992 A1	20110428	WO2010EP65308	20101013

Priority:

DE200910045880 20091021 CN201080047351 20101013 WO2010EP65308 20101013
EP20100768726 20101013

Probable Assignee: SEG AUTOMOTIVE GERMANY GMBH

Assignee(s): (std): BOSCH GMBH ROBERT ; DETROIS YVES ; JAROS ROLF

Assignee(s): ROBERT BOSCH GMBH ; SEG AUTOMOTIVE GERMANY GMBH

Inventor(s): (std): DETROIS YVES ; JAROS ROLF ; ROLF JAROS ; YVES DETROIS

Agent(s): KENYON AND KENYON LLP; ROBERT BOSCH 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 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

39) Family number: 7428913 (DE3738895A1)

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Title: Chain tensioner

Abstract: A description is given of a bow-shaped chain tensioner which has a chain track for the purpose of guiding a flat-link articulated chain. Provided in the region of the chain entry is a roller, which is the first element with which the chain to be tensioned comes into contact and which takes up chain lashing movements. In a preferred embodiment, the roller ring is resiliently supported via tangentially extending spokes.

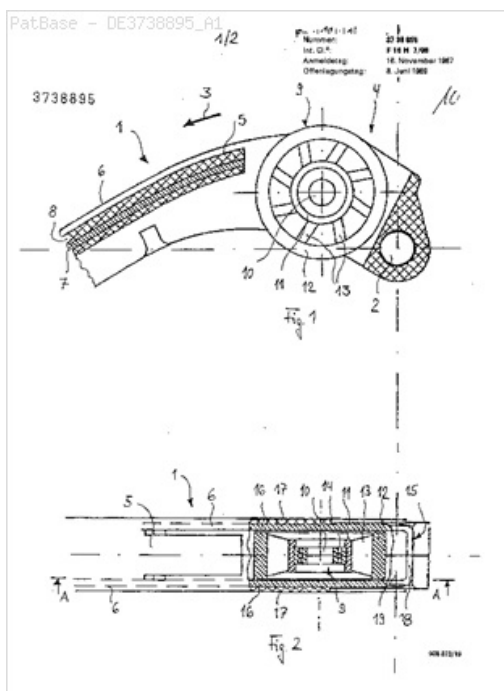
Classifications:

International (IPC 8-9): F16H7/08 F16H7/12 (Advanced/Invention); F16H7/08 F16H7/12 (Core/Invention)

International (IPC 1-7): F16H7/08

CPC: F16H7/08 F16H7/12 F16H2007/0872 F16H2007/0893

European: F16H7/08 F16H7/12 R16H7/08T3 R16H7/08Z2



Family:

Publication number	Publication date	Application number	Application date
DE3738895 A1	19890608	DE19873738895	19871116
DE3738895 C2	19891214	DE19873738895	19871116

Priority:

DE19873738895 19871116

Probable Assignee: KLIFA GMBH AND CO**Assignee(s):** (std): KLIFA GMBH AND CO**Assignee(s):** KLIFA FAHRZEUGTEILE GMBH AND CO ; KLIFA FAHRZEUGTEILE GMBH AND CO 6800 MANNHEIM DE**Inventor(s):** (std): FRIEDRICHS K GERD**Inventor(s):** GERD FRIEDRICHS K ; FRIEDRICHS K GERD 5090 LEVERKUSEN DE**40) Family number: 63115935 (US2016230851A)**

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Title: BELT DRIVE TENSIONING SYSTEM

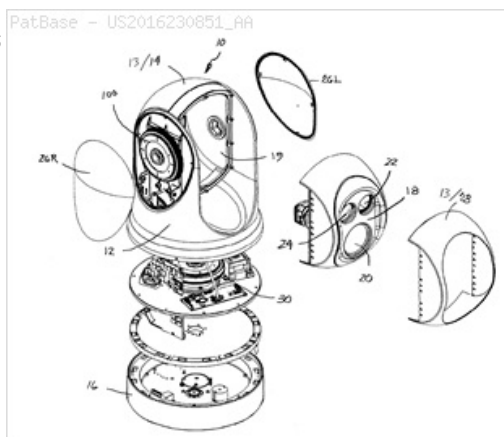
Abstract: Various techniques are provided to maintain drive belts at substantially constant tension over a wide range of conditions. In one embodiment, a system includes a housing, a bracket secured to the housing, first and second pulleys, and a belt engaged in tension with the first and second pulleys. The first and second pulleys are suspended from the housing through the bracket to reduce effects of thermal expansion of the housing on the belt tension. Other systems and related methods are also provided.

Classifications:**International (IPC 8-9):** B62J13/00 F16D1/00 F16H57/02 F16H57/035

F16H7/00 F16H7/02 F16H7/12 F16H7/14

F16H7/22 (Advanced/Invention);

F16H7/08 (Advanced/Non-invention)

CPC: F16H57/035 F16H7/08**US:** 1/1 474/150**Family:**

Publication number	Publication date	Application number	Application date
US2016230851 AA	20160811	US20160017204	20160205
US10156290 BB	20181218	US20160017204	20160205

Priority:

US20150113314P 20150206

US20160017204 20160205

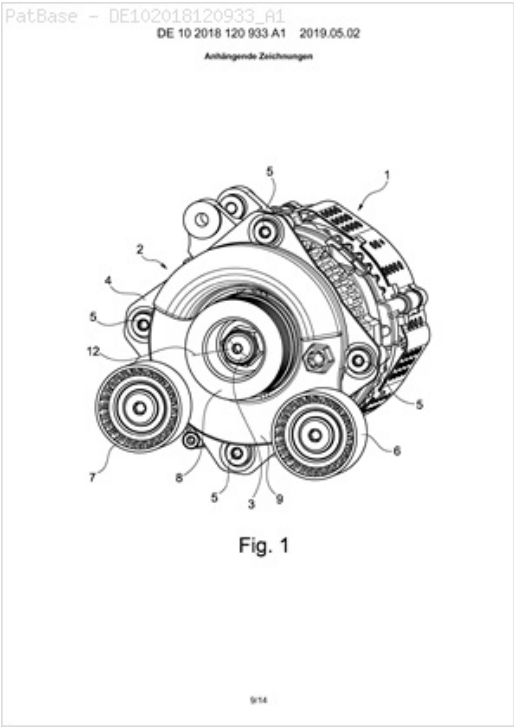
Probable Assignee: FLIR BELGIUM BVBA**Assignee(s):** (std): FLIR BELGIUM BVBA**Assignee(s):** FLIR SYSTEMS INC**Inventor(s):** (std): KENT MICHAEL ; CHAPPLE SAMUEL S**Agent(s):** HAYNES AND BOONE LLP**41) Family number: 74170937 (DE102018120933A1)**

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Title: RIEMENSPANNER Belt Tensioner (Machine translation)

Abstract: Source: DE102018120933A1 [DE] Vorgeschlagen ist ein Riemenspanner (2, 2') fuer einen Nebenaggregate-Riementrieb, der einen Generator (1) mit einer Generatorwelle (3) und einer vom Riemen (36) umschlungenen Generatorriemenscheibe (8) umfasst, aufweisend: - einen am Generator befestigten Flansch (4) mit einer Lagerhülse (14), die die Drehachse (12) der Generatorwelle umschliesst, - einen ersten Spannarm (9) und einen zweiten Spannarm (10), die kreisringförmig ausgebildet und an der Lagerhülse gegenseitig schwenkbar gelagert sind, - zwei an den Spannarmen angebrachte Spannrollen (6, 7), die den Riemen (36) in dessen Umlaufrichtung vor und hinter der Generatorriemenscheibe mit Vorspannkraft beaufschlagen, - und eine zwischen den Spannarmen eingespannte Feder (11) zur Erzeugung der Vorspannkraft, Der erste Spannarm soll radial gegen den Innenmantel der Lagerhülse gelagert sein, und der zweite Spannarm soll radial gegen den Aussenmantel der Lagerhülse gelagert sein, wobei die Spannrollen axial auf der dem Generator zugewandten Seite der Lagerhülse angeordnet sind und/oder die Lagerhülse axial beabstandet zur Generatorwelle ist. **Machine translation:** Proposed is a belt tensioner (2, 2') for a accessories belt, a generator (1) is connected to a generator shaft (3) by the belt (36) and a umschlungenen alternator pulley (8) on the generator, comprising: a flange affixed thereto (4) with a bearing sleeve (14), the axis of rotation (12) of the generator shaft, and a first clamp arm (9) and a second clamp arm (10), the annular shape and attached to the bearing sleeve mutually pivotally mounted, two at the Chuck arms mounted tension rollers (6, 7), the belt (36) in the circumferential direction in front of and behind the alternator pulley with biasing force, and between the clamping arms clamped spring (11) for the generation of the biasing force of the first clamp arm is radially against the inner sheath, the bearing sleeve, and the second clamp arm is mounted radially against the outer jacket of the Bearing sleeve, wherein the tensioning roller axially facing side of the bearing sleeve on the generator, and/or the bearing sleeve axially spaced apart from the generator shaft.

Classifications:**International (IPC 8-9):** F02B67/06 F16H7/12 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
DE102018120933 A1	20190502	DE201810120933	20180828

Priority:

DE201710010003 20171027

Probable Assignee: SCHAEFFLER TECHNOLOGIES AG
Assignee(s): (std): SCHAEFFLER TECHNOLOGIES AG
Assignee(s): SCHAEFFLER TECHNOLOGIES AND CO AG KG
Inventor(s): (std): MARICIC ZORAN

42) Family number: 65470944 (US2018231116A)

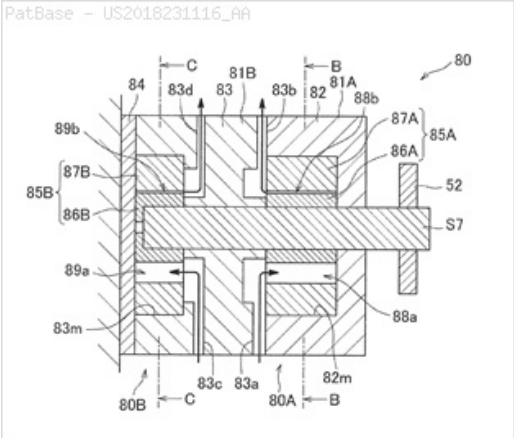
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Title: DRIVE UNIT FOR STRADDLED VEHICLE

Abstract: A drive unit for a straddled vehicle includes an engine main body unit, a transmission unit, and a shared lubrication oil supply mechanism. The shared lubrication oil supply mechanism includes a first booster pump which pressurizes the shared lubrication oil lubricating both the engine main body unit and the transmission unit and a second booster pump which pressurizes at least part of the shared lubrication oil which has been pressurized by the first booster pump and which is in a positive pressure condition.

Classifications:

International (IPC 8-9): B62M7/02 F01L1/24 F01L1/344 F01M1/02 F01M11/02 F02F7/00 F16H57/02 F16H57/04 F16H7/08 (Advanced/Invention); F01M1/12 F01M11/02 (Advanced/Non-invention)
CPC: F01M1/02 F01M11/02 F01M2001/0269 F01M2001/123 F01M2011/021 B62M7/02 F01L1/2422 F01L1/3442 F01L2001/2444 F01L2001/34423 F01L2250/02 F02F7/0021 F16H7/08 F16H57/02 F16H57/0441 F16H57/0475 F16H2007/0812 F16H2057/0203 F16H2057/02065
US: 1/1 123/90.17



Family:

Publication number	Publication date	Application number	Application date
CA3002136 AA	20180416	CA20163002136	20161014
EP3364002 A1	20180822	EP20160855534	20161014
EP3364002 A4	20181024	EP20160855534	20161014
US2018231116 AA	20180816	US20180954377	20180416
WO17065281 A1	20170420	WO2016JP80557	20161014

Priority:

JP20150204557 20151016 WO2016JP80557 20161014

Probable Assignee: YAMAHA HATSUDOKI KK

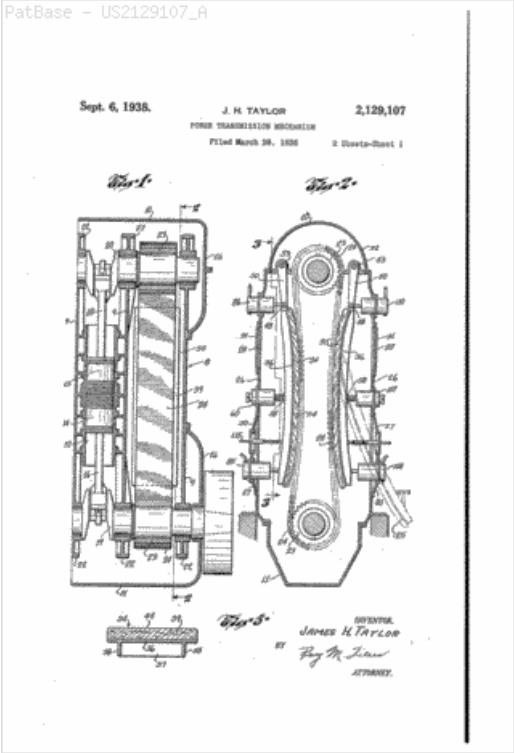
Assignee(s): (std): YAMAHA MOTOR CO LTD
Assignee(s): KOBAYASHI MAKOTO ; YAMAHA HATSUDOKI KK
Inventor(s): (std): KOBAYASHI MAKOTO
Agent(s): RICHES MCKENZIE AND HERBERT LLP; STOECKELER FERDINAND; KAJI SUHARA AND ASSOCIATES
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA 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 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

43) Family number: 21224970 (US2129107A) © PatBase

Title: POWER TRANSMISSION MECHANISM

Abstract: 1, In a chain drive assembly for the purpose described, spaced shafts, sprockets carried by said shafts, a chain operatively connecting said sprockets, a chain shoe adapted for engagement with a portion of the chain, a pivoted support for said shoe, independent fluid pressure-operated devices, operatively associated respectively with said shoe and with said pivoted support, each of said devices being adapted for urging. said shoe into tensioning engagement with the chain, and a device acting on said shoe, and adapted to limit chain-displacement thereof in one direction. V

Classifications:
International (IPC 8-9): F16H7/08 (Advanced/Invention);
F16H7/08 (Core/Invention)
International (IPC 1-7): F16H7/08
CPC: F16H7/08 F16H2007/0812 F16H2007/0846 F16H2007/0861
F16H2007/0872 F16H2007/0874 F16H2007/0893
European: F16H7/08 R16H7/08A5 R16H7/08Q R16H7/08S
R16H7/08T3 R16H7/08T4 R16H7/08Z2
US: 474/110 474/111



Family:

Publication number	Publication date	Application number	Application date
US2129107 A	19380906	US19360071367	19360328

Priority:

US19360071367 19360328

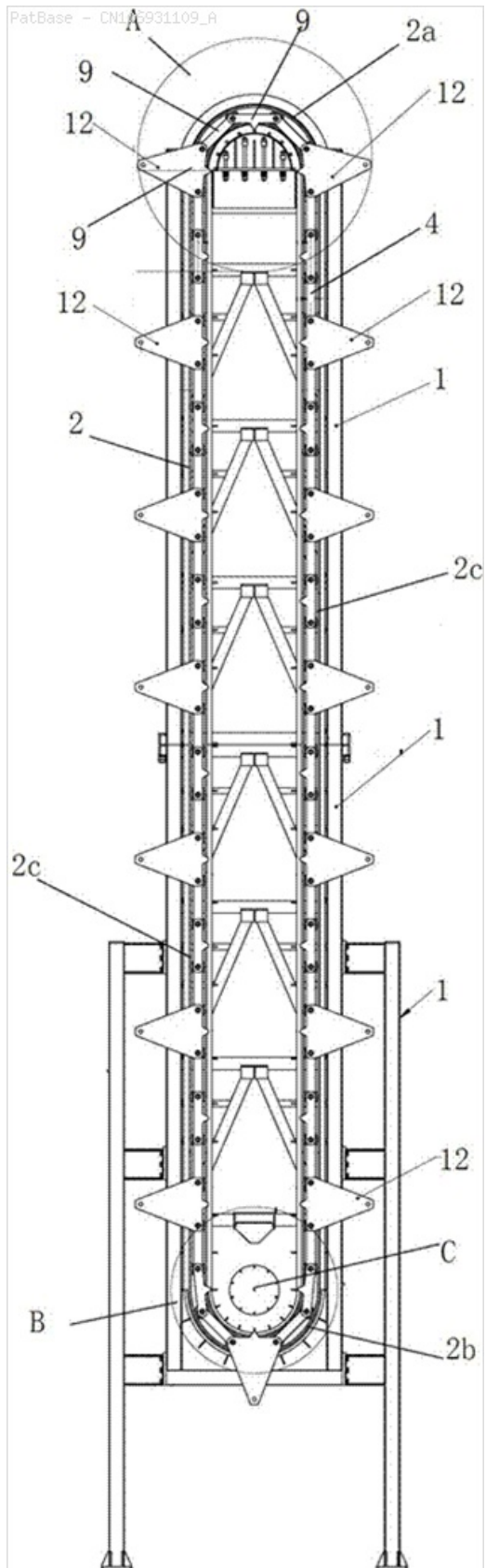
Probable Assignee: FAIRBANKS MORSE AND CO
Assignee(s): (std): FAIRBANKS MORSE AND CO
Inventor(s): (std): TAYLOR JAMES H

44) Family number: 66310987 (CN106931109A) © PatBase

Title: TRANSMISSION CHAIN WHEEL TENSIONING MECHANISM OPERATING ALONG CIRCULATING TRACKS

Abstract: Provided is a transmission chain wheel tensioning mechanism operating along circular tracks. The transmission chain wheel tensioning mechanism operating along the circular tracks is characterized by comprising a tower-shaped rack, the circulating tracks, circulating chains and power-driven chain wheels; each circulating track comprises a fixed circulating track section and a movable circulating track section, and the movable circulating track section is in a semi-arc shape and is fixed to a movable frame; transverse supports are fixed to the tower-shaped rack and provided with vertical suspension rods; the vertical suspension rods are connected to a cross beam of the movable frame in a penetrating mode; and a spring is arranged between the lower end, penetrating through the cross beam, of each suspension rod and the cross beam. Compared with the prior art, the transmission chain wheel tensioning mechanism operating along the circular tracks has the advantage of being capable of tensioning the chains operating along the tracks.

Classifications:
International (IPC 8-9): F16H7/08 (Advanced/Invention)
CPC: F16H7/08 F16H2007/0806 F16H2007/0842

**Family:**

Publication number	Publication date	Application number	Application date
■ CN106931109 A	20170707	CN201611153574	20161214

Priority:

CN201611153574 20161214

Probable Assignee: VITOR ZHAOQING HEAVY MACHINERY CO LTD**Assignee(s):** (std): VITOR ZHAOQING HEAVY MACHINERY CO LTD**Assignee(s):** VADER ZHAOQING HEAVY MACHINERY LTD ; VITOR ZHAOQING HEAVY MACHINERY CO**Inventor(s):** (std): HE ZHONGQUAN