

Title (en)

ELASTIC CONNECTION ELEMENT WITH VARIABLE RIGIDITY

Title (de)

ELASTISCHES VERBINDUNGSELEMENT MIT VERÄNDERLICHER STEIFIGKEIT

Title (fr)

ELEMENT DE CONNEXION ELASTIQUE A RIGIDITE VARIABLE

Publication

**EP 2260217 A1 20101215 (DE)**

Application

**EP 09730106 A 20090406**

Priority

- DE 2009050016 W 20090406
- DE 102008001097 A 20080409

Abstract (en)

[origin: WO2009124543A1] The invention relates to an elastic connection element with variable rigidity for connecting mutually spaced components. The connection element is designed as a tubular component with coupling points (1, 1') for fixing to the components to be connected to said element. According to the invention, the rigidity of the element in the state of maximum rigidity is determined substantially by the coupling points (1, 1'). These are formed by a receiving eyelet (3, 3') and an elastomeric bushing (4, 5, 4', 5') pressed therein. The region situated between the coupling points forms a piston-cylinder unit (6, 7), the interior of which comprises at least two chambers (9, 9'), separated by the piston (7), for receiving a hydraulic or pneumatic medium. The chambers are interconnected by a channel or a connection line (10) containing a controllable valve (11). By at least partially opening the valve, the rigidity of the connection element can be reduced in relation to the state of maximum rigidity.

IPC 8 full level

**F16F 9/19** (2006.01)

CPC (source: EP US)

**B60G 7/003** (2013.01 - EP US); **F16F 9/19** (2013.01 - EP US); **B60G 2206/1116** (2013.01 - EP US)

Citation (search report)

See references of WO 2009124543A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**WO 2009124543 A1 20091015**; DE 102008001097 A1 20091022; EP 2260217 A1 20101215; JP 2011516802 A 20110526; US 2011036672 A1 20110217; US 8534433 B2 20130917

DOCDB simple family (application)

**DE 2009050016 W 20090406**; DE 102008001097 A 20080409; EP 09730106 A 20090406; JP 2011503336 A 20090406; US 93697909 A 20090406