

Title (en)  
ENERGY DISSIPATING DEVICE, CONNECTION DEVICE SUITABLE TO CONNECT A FIRST CAR OF A MULTI-CAR VEHICLE WITH A SECOND CAR OF THE MULTI-CAR VEHICLE AND METHOD FOR BUILDING A CONNECTION DEVICE

Title (de)  
ENERGIEABLEITENDE VORRICHTUNG, VERBINDUNGSVORRICHTUNG ZUM VERBINDEN EINES ERSTEN WAGENS EINES FAHRZEUGS MIT MEHREREN WAGEN MIT EINEM ZWEITEN WAGEN DES FAHRZEUGS MIT MEHREREN WAGEN UND VERFAHREN ZUR HERSTELLUNG EINER VERBINDUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE DISSIPATION D'ÉNERGIE, DISPOSITIF DE CONNEXION CONÇU POUR RELIER UNE PREMIÈRE CABINE D'UN VÉHICULE À PLUSIEURS CABINES À UNE SECONDE CABINE DE VÉHICULE À PLUSIEURS CABINES ET PROCÉDÉ DE CONSTRUCTION D'UN DISPOSITIF DE CONNEXION

Publication  
**EP 3184397 A1 20170628 (EN)**

Application  
**EP 15003664 A 20151223**

Priority  
EP 15003664 A 20151223

Abstract (en)  
The invention relates to an energy dissipating device suitable to be used as part of a connection device that connects a first car of a multi-car vehicle with a second car of the multi-car vehicle, comprising a plug that has a longitudinal axis and a mandrel that has an opening, whereby the plug is arranged to be moved at least partially through the opening, if a force pointing in the longitudinal axis is applied to the plug, and whereby at least a part of the plug and/or at least a part of the mandrel is deformed, when the plug is at least partially moved through the opening, whereby the outer surface of the plug has at least one protruding rib that extends in the direction of or parallel to the direction of the longitudinal axis, said rib being at least partially deformed, when the plug is at least partially moved through the opening and/or the surface of the mandrel that surrounds the opening has at least one protruding rib that extends in the direction of or parallel to the direction of the longitudinal axis, said rib being at least partially deformed, when the plug is at least partially moved through the opening.

IPC 8 full level  
**B61G 11/16** (2006.01)

CPC (source: EP)  
**B61G 11/16** (2013.01)

Citation (applicant)  
• EP 1312527 A1 20030521 - VOITH TURBO SCHARFENBERG GMBH [DE]  
• WO 2005075272 A1 20050818 - DELLNER COUPLERS AB [SE], et al  
• EP 2949539 A1 20151202 - DELLNER COUPLERS AB [SE]

Citation (search report)  
• [Y] WO 2009072843 A2 20090611 - KOREA RAILROAD RES INST [KR], et al  
• [X] EP 1905661 A1 20080402 - VOITH TURBO SCHARFENBERG GMBH [DE]  
• [A] NL 7502142 A 19760824 - NOORD NEDERLANDSCHE MASCHF  
• [XYI] DE 10145446 A1 20020328 - REYNOLDS ALUMINIUM BV [NL]

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3184397 A1 20170628; EP 3184397 B1 20210127**; ES 2860716 T3 20211005; PL 3184397 T3 20210614

DOCDB simple family (application)  
**EP 15003664 A 20151223**; ES 15003664 T 20151223; PL 15003664 T 20151223