

Title (en)
Anti-vibration connector coupling

Title (de)
Vibrationsdämpfende Verbindungskupplung

Title (fr)
Couplage de connecteur anti-vibration

Publication
EP 2395609 A3 20120229 (EN)

Application
EP 11004631 A 20110607

Priority
US 79625210 A 20100608

Abstract (en)
[origin: EP2395609A2] A connector coupling (100,1000) that comprises a connector body (102,1002), a first collar (204,1004) coupled to the connector body (102,1002), and a second collar (206,1006) surrounding the first collar (204,1004). The first collar (204,1004) has a plurality of locking members (404,1104). The second collar (206,1006) is rotatable with respect to the first collar (204,1004) between first and second positions. A ratchet ring (208,1008) is supported by the connector body (102,1002) and has a plurality of locking members (304,1304) corresponding to the plurality of locking members (404,1104) of the first collar (204,1004). The ratchet ring (208,1008) being axially movable with respect to the connector body (102,1002) between an engaged position and a disengaged position. A biasing member (210,1010) is supported by the connector body (102,1002) adjacent the ratchet ring (208,1008). The biasing member (210,1010) biases the ratchet ring (208,1008) in the engaged position. Rotating the second collar (206,1006) from the first position to the second position moves the ratchet ring (208,1008) from the engaged position, in which the plurality of locking members (304,1304) of the ratchet ring (208,1008) engage the plurality of the locking members (404,1104) of the first collar (204,1004), to the disengaged position, in which the plurality of locking members (304,1304) of the ratchet ring (208,1008) are spaced from the plurality of locking members (404,1104) of the first collar (204,1004), thereby allowing the first collar (204,1004) to rotate with respect to the connector body (102,1002).

IPC 8 full level
H01R 13/622 (2006.01); **H01R 13/639** (2006.01)

CPC (source: EP)
H01R 13/622 (2013.01); **H01R 13/639** (2013.01); **H01R 13/533** (2013.01)

Citation (search report)
• [AD] US 5399096 A 19950321 - QUILLET THIERRY [FR], et al
• [AD] US 6086400 A 20000711 - FOWLER CLIFFORD C [US]
• [AD] US 6123563 A 20000926 - JOHNSON HEATH ALLEN [US], et al

Cited by
EP2863487A1; EP2779321A1; NO343931B1; EP3567684A1; CN110459905A; RU2764034C2; US9325106B2; KR20160102014A; EP3084232A4; CN108321581A; KR20200090925A; CN111555080A; WO2014121783A1; WO2015160757A1; US9528646B2; US10823919B2; US9203180B2; US9450328B2; US9385470B2; US9437965B2; US9810858B2

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 2395609 A2 20111214; EP 2395609 A3 20120229; EP 2395609 B1 20131016; BR PI1102654 A2 20150623; BR PI1102654 B1 20201215; CA 2742222 A1 20111208; CA 2742222 C 20180724; ES 2434797 T3 20131217; IL 213239 A0 20110731; IL 213239 A 20170228; JP 2011258559 A 20111222; JP 5744632 B2 20150708; MY 151293 A 20140430

DOCDB simple family (application)
EP 11004631 A 20110607; BR PI1102654 A 20110608; CA 2742222 A 20110606; ES 11004631 T 20110607; IL 21323911 A 20110531; JP 2011127105 A 20110607; MY PI2011002570 A 20110607