

Title (en)

COUPLER TORSION SPRING CENTERING DEVICE

Title (de)

KOPPLERTORSIONSFEDER-ZENTRIERUNGSVORRICHTUNG

Title (fr)

DISPOSITIF DE CENTRAGE DE RESSORT DE TORSION D'ATTELAGE

Publication

**EP 2911929 A4 20160907 (EN)**

Application

**EP 13849102 A 20131028**

Priority

- US 201261718866 P 20121026
- US 2013067028 W 20131028

Abstract (en)

[origin: WO2014066880A1] A coupler for a railway vehicle includes a coupler anchor and a coupler centering device having a pair of arm subassemblies. Each arm subassembly has an upper centering arm connected to a lower centering arm via a torsion bar extending through the coupler anchor. The lower centering arms are connected by a cross link such that movement of one of the upper centering arms causes a corresponding movement of both of the lower centering arms. Each upper centering arm engages a roller that rolls along a curved surface of the centering arm when the coupler is rotated horizontally toward the upper centering arm. A centering stop element prevents the movement of the opposing upper centering arm to generate a restoring force in the torsion bars that facilitates horizontal movement of the coupler. The coupler centering device may be disengaged from an active centering position to facilitate servicing of the coupler.

IPC 8 full level

**B61G 7/10** (2006.01)

CPC (source: CN EP US)

**B61G 1/32** (2013.01 - US); **B61G 7/10** (2013.01 - CN); **B61G 7/12** (2013.01 - EP US)

Citation (search report)

- [A] US 2007138120 A1 20070621 - ANDERSON JOHN D [US], et al
- [A] US 3371802 A 19680305 - DUNGAN STEPHEN C
- [A] US 3578180 A 19710511 - METZGER WILLIAM J, et al
- [A] US 3386596 A 19680604 - GUTRIDGE JACK E, et al
- [A] FR 1468346 A 19670203 - KNORR BREMSE KG
- See references of WO 2014066880A1

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

DOCDB simple family (publication)

**WO 2014066880 A1 20140501**; AU 2013334091 A1 20150430; AU 2013334091 B2 20161222; AU 2013334091 B9 20170608; BR 112015008647 A2 20170704; CA 2887990 A1 20140501; CN 104781129 A 20150715; CN 104781129 B 20170405; EP 2911929 A1 20150902; EP 2911929 A4 20160907; JP 2015536272 A 20151221; JP 6224719 B2 20171101; KR 20150079816 A 20150708; MX 2015005013 A 20150717; RU 2015119650 A 20161220; US 2015329127 A1 20151119

DOCDB simple family (application)

**US 2013067028 W 20131028**; AU 2013334091 A 20131028; BR 112015008647 A 20131028; CA 2887990 A 20131028; CN 201380055570 A 20131028; EP 13849102 A 20131028; JP 2015539882 A 20131028; KR 20157013769 A 20131028; MX 2015005013 A 20131028; RU 2015119650 A 20131028; US 201314438031 A 20131028