

## Title (en)

END PLATE FOR A RAIL VEHICLE COUPLING HEAD, AND RAIL VEHICLE COUPLING HEAD

## Title (de)

STIRNPLATTE FÜR EINEN SCHIENENFAHRZEUGKUPPLUNGSKOPF UND SCHIENENFAHRZEUGKUPPLUNGSKOPF

## Title (fr)

PLAQUE D'EXTRÉMITÉ POUR TÊTE D'ATTELAGE DE VÉHICULE FERROVIAIRE ET TÊTE D'ATTELAGE DE VÉHICULE FERROVIAIRE

## Publication

**EP 3713806 B1 20220309 (DE)**

## Application

**EP 18803609 A 20181112**

## Priority

- DE 102017127552 A 20171122
- EP 2018080859 W 20181112

## Abstract (en)

[origin: WO2019101552A1] The invention relates to an end plate (10) for a rail vehicle coupling head, with coupling elements, comprising a coupling projection (1) which protrudes from the end plate (10) in a front direction and a coupling opening (6) for receiving a coupling projection of diametrically opposed coupling elements of a compatible end plate, wherein the end plate (10) has a contact surface (7) on the end face for absorbing compression forces during the coupling up of the compatible end plate. The invention is characterized in that the contact surface (7) on the end face is provided with at least one recess (3) which is positioned outside the coupling elements and is open at the edge at least in sections.

## IPC 8 full level

**B61G 3/16** (2006.01); **B61G 7/00** (2006.01)

## CPC (source: CN EP)

**B61G 3/16** (2013.01 - CN EP); **B61G 7/00** (2013.01 - CN EP)

## Citation (opposition)

Opponent : **Dellner Couplers AB**

- CN 102991526 A 20130327 - DALIAN LOCOMOTIVE & ROLLING ST
- KR 200342776 Y1 20040218
- ANONYMOUS: "Tight Coupler - Railway Terminology", RAILWAY TERMS - KOHITSUJI HOUSE, 15 December 2009 (2009-12-15), XP093011219, Retrieved from the Internet <URL:https://isok.jp/rail/term/term\_mi/tlcp.htm> [retrieved on 20230103]
- ANONYMOUS: "Railway 3DCG production record Series 103 (30)", TETSUDO, 19 March 2015 (2015-03-19), pages 1 - 6, XP093011222, Retrieved from the Internet <URL:http://old-staff.cocolog-nifty.com> [retrieved on 20230103]
- ANONYMOUS: "Adhesion Coupler - Railway Terminology", RAILWAY TERMS ROOM, 1 January 2009 (2009-01-01), XP093011223, [retrieved on 20230103]

Opponent : **Knorr-Bremse Systeme für Schienenfahrzeuge GmbH**

- GB 836478 A 19600601 - NAT MALLEABLE & STEEL CASTINGS
- DE 585951 C 19331013 - KARL STOLLBERG
- EP 1632414 A1 20060308 - VOITH TURBO SCHARFENBERG GMBH [DE]
- TAMIKU: "Shibata-Kupplung", WIKIMEDIA COMMONS, 18 September 2004 (2004-09-18), XP093011197, Retrieved from the Internet <URL:https://commons.wikimedia.org/wiki/File:Michaku.jpg> [retrieved on 20230103]

## Cited by

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## DOCDB simple family (publication)

**DE 102017127552 A1 20190523**; CN 111356623 A 20200630; CN 111356623 B 20210907; CN 113799843 A 20211217; EP 3713806 A1 20200930; EP 3713806 B1 20220309; EP 4035967 A1 20220803; ES 2915578 T3 20220623; PL 3713806 T3 20220627; WO 2019101552 A1 20190531

## DOCDB simple family (application)

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