

Title (en)

COUPLER ARRANGEMENT FOR RAIL VEHICLE

Title (de)

KUPPLUNGSANORDNUNG FÜR SCHIENENFAHRZEUG

Title (fr)

DISPOSITIF D'ATTELAGE POUR VÉHICULE FERROVIAIRE

Publication

**EP 4344977 A1 20240403 (EN)**

Application

**EP 22198207 A 20220927**

Priority

EP 22198207 A 20220927

Abstract (en)

A coupler arrangement for a rail vehicle comprises a coupler head (1) and an uncoupling device having at least one handle (3; 3', 3'') which is manually swivellable about an axis of rotation (A) in a swivel direction (S) from a first position, in which the coupler head (1) is in a state in which it is coupled to or ready to couple with the coupler head of another coupler arrangement, into a second position, in which the coupler head (1) is in an uncoupled state. In one embodiment the handle (3; 3', 3'') comprises a handle arm (3A) which is oriented horizontally when the handle is either in the first or in the second position. In another embodiment the handle (3; 3', 3'') is mechanically lockable by moving, preferably shifting or tilting, at least a portion of the handle in a locking direction from the second position into a third position, wherein the locking direction differs from the swivel direction (S). In an even further embodiment, two of those handles (3', 3'') are provided, preferably on opposite sides relative to the coupler head 1, wherein preferably swivelling of one of the two handles (3', 3'') causes a corresponding swivelling of the respective other handle.

IPC 8 full level

**B61G 7/02** (2006.01)

CPC (source: EP US)

**B61G 1/04** (2013.01 - US); **B61G 7/02** (2013.01 - EP)

Citation (applicant)

DE 102020119328 A1 20210225 - VOITH PATENT GMBH [DE]

Citation (search report)

- [XDAI] DE 102020119328 A1 20210225 - VOITH PATENT GMBH [DE]
- [XAI] JP S5777077 U 19820512
- [XAI] EP 1149751 B1 20040630 - KNORR BREMSE SYSTEME [DE]
- [XAI] CH 405395 A 19660115 - SOC D APP BOIRAUT [FR], et al
- [XA] DAC4EU DIGITAL AUTOMATIC COUPLING FOR EUROPE: "DAC4EU - Operational Tests", 13 January 2022 (2022-01-13), XP093027696, Retrieved from the Internet <URL:https://www.youtube.com/watch?v=5y1ESfnkXac> [retrieved on 20230228]

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

Designated validation state (EPC)

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DOCDB simple family (application)

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