

Title (en)  
COUPLING FOR RAIL VEHICLE

Title (de)  
KUPPLUNG FÜR SCHIENENFAHRZEUG

Title (fr)  
ACCOUPLEMENT POUR VÉHICULE FERROVIAIRE

Publication  
**EP 4393788 A1 20240703 (EN)**

Application  
**EP 22216703 A 20221227**

Priority  
EP 22216703 A 20221227

Abstract (en)  
A coupling for a rail vehicle comprises a coupler shank (2) for attaching the coupling to a rail vehicle, a coupler head (1) pivotably connected to a free end of the coupler shank so as to rotate about a primary axis (6) between an operational position and a non-operational position, a pivoting mechanism configured to rotate the coupler head (1) about the primary axis (6) from the coupler head's operational position toward the coupler head's non-operational position, and a locking member (8) configured to block rotation of the coupler head (1) about the primary axis (6) when the coupler head (1) is in the operational position. When the pivoting mechanism is actuated so as to rotate the coupler head (1) from the coupler head's operational position to the coupler head's non-operational position, the pivoting mechanism moves from an operational state to an interim state in a first period and from the interim state to a non-operational state in a second period, wherein the pivoting mechanism is configured to release the locking member (8) during the first period and to rotate the coupler head (1) into the non-operational position during the second period.

IPC 8 full level  
**B61G 7/08** (2006.01); **B61G 5/04** (2006.01)

CPC (source: EP)  
**B61G 5/04** (2013.01); **B61G 7/08** (2013.01)

Citation (applicant)  
EP 3590784 A1 20200108 - VOITH PATENT GMBH [DE]

Citation (search report)  

- [XAYI] EP 3992054 A1 20220504 - CRRC QINGDAO SIFANG ROLLING STOCK RES INST CO LTD [CN]
- [X] WO 2008132124 A1 20081106 - VOITH PATENT GMBH [DE]
- [XI] US 653075 A 19000703 - DUNN JAMES F [US]
- [YA] WO 2021185497 A1 20210923 - VOITH PATENT GMBH [DE]
- [A] US 630575 A 18990808 - TEAL STEBBINS A [US], et al

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4393788 A1 20240703**; WO 2024141429 A1 20240704

DOCDB simple family (application)  
**EP 22216703 A 20221227**; EP 2023087457 W 20231221