

Title (en)

AUTOMATIC AIR COUPLING FOR A RAIL VEHICLE

Title (de)

AUTOMATISCHE LUFTKUPPLUNG FÜR EIN SCHIENENFAHRZEUG

Title (fr)

RACCORD D'AIR AUTOMATIQUE POUR VÉHICULE FERROVIAIRE

Publication

**EP 4103443 A1 20221221 (DE)**

Application

**EP 21701754 A 20210122**

Priority

- DE 102020103375 A 20200211
- EP 2021051410 W 20210122

Abstract (en)

[origin: WO2021160406A1] The invention relates to an automatic air coupling for a rail vehicle, comprising a mouthpiece for coupling the air coupling to an identical but oppositely arranged air coupling; comprising a compressed air spigot for connecting the air coupling to a rail vehicle compressed air system; comprising a flow channel which connects the mouthpiece to the compressed air spigot in order to conduct compressed air therebetween; comprising a valve which is arranged in the flow channel and which has a valve body which is actuatable in order to selectively block off and release the flow channel; and comprising a valve drive which engages with the valve body in order to actuate same so as to selectively block off and release the flow channel. The automatic air coupling according to the invention is characterised in that the valve body is designed as a crimp tube which surrounds at least a portion of the flow channel and in a closed position of the valve drive is compressed by the valve drive and closes the flow channel in a constricting manner and in an open position of the valve drive releases the flow channel.

IPC 8 full level

**B61G 5/08** (2006.01)

CPC (source: EP)

**B61G 5/08** (2013.01)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**DE 102020103375 A1 20210812**; CN 115066361 A 20220916; CN 115066361 B 20240326; EP 4103443 A1 20221221; EP 4103443 B1 20240313; WO 2021160406 A1 20210819

DOCDB simple family (application)

**DE 102020103375 A 20200211**; CN 202180013873 A 20210122; EP 2021051410 W 20210122; EP 21701754 A 20210122