

Title (en)

COUPLING DEVICE FOR A TOWING VEHICLE OF A VEHICLE COMBINATION

Title (de)

KUPPLUNGSVORRICHTUNG FÜR EIN ZUGFAHRZEUG EINES FAHRZEUGVERBUNDES

Title (fr)

DISPOSITIF DE COUPLAGE POUR UN VÉHICULE TRACTEUR D'UNE COMBINAISON DE VÉHICULES

Publication

EP 4323212 A1 20240221 (DE)

Application

EP 22721327 A 20220407

Priority

- DE 102021109068 A 20210412
- EP 2022059219 W 20220407

Abstract (en)

[origin: WO2022218801A1] The present invention relates to a coupling device (1) for a towing vehicle (3) of a vehicle combination (3, 4), comprising a drawbar (10) which extends substantially along a longitudinal axis (X') and is designed to be received by a mount on a frame of the towing vehicle (3). The coupling device (1) of the invention is characterized by at least one play detection means (6) that includes at least one motion sensor (63), preferably at least one vibrometer (63), preferably a plurality of motion sensors (63), preferably a plurality of vibrometers (63), which is configured to sense a relative movement between the drawbar (10) and the mount on the frame of the towing vehicle (3) along the longitudinal axis (X') and/or vertically to the longitudinal axis (X').

IPC 8 full level

B60D 1/62 (2006.01); **B60D 1/02** (2006.01)

CPC (source: EP)

B60D 1/02 (2013.01); **B60D 1/62** (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 102021109068 A1 20221013; EP 4323212 A1 20240221; WO 2022218801 A1 20221020

DOCDB simple family (application)

DE 102021109068 A 20210412; EP 2022059219 W 20220407; EP 22721327 A 20220407