

Title (en)  
COUPLING DEVICE COMPRISING FOUR DEGREES OF FREEDOM

Title (de)  
KUPPLUNGSVORRICHTUNG, VIER FREIHEITSGRADEN UMFASSEND

Title (fr)  
DISPOSITIF D'ATTELAGE COMPORTANT QUATRE DEGRES DE LIBERTE

Publication  
**EP 3638521 A1 20200422 (FR)**

Application  
**EP 18728424 A 20180608**

Priority

- FR 1755522 A 20170616
- EP 2018065196 W 20180608

Abstract (en)  
[origin: WO2018228945A1] The coupling device (1) comprises: - a hitch yoke (5) secured to a first road vehicle (2); - a drawbar (6) secured to a second road vehicle (3); - a roll travel device (11) in the drawbar for the roll travel of one vehicle relative to the other; - a yaw travel device (12) in the drawbar for the yaw travel of one vehicle relative to the other; - a first pitch travel device (13) provided such that it is secured to the hitch yoke for the pitch travel of the first road vehicle (2) relative to the hitch yoke; - a second pitch travel device (14) in the drawbar for the pitch travel of the second road vehicle relative to the distal end of the drawbar, said second pitch travel device being separate from the first one.

IPC 8 full level  
**B60D 1/48** (2006.01); **B62D 53/00** (2006.01)

CPC (source: EP US)  
**B60D 1/36** (2013.01 - EP); **B60D 1/481** (2013.01 - EP US); **B60D 1/62** (2013.01 - EP); **B62D 47/006** (2013.01 - EP); **B62D 47/00** (2013.01 - EP)

Citation (search report)  
See references of WO 2018228945A1

Cited by  
EP3922487A1; FR3111096A1

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

DOCDB simple family (publication)  
**WO 2018228945 A1 20181220**; CN 110740883 A 20200131; EP 3638521 A1 20200422; FR 3067656 A1 20181221; FR 3067656 B1 20210115; US 2020171899 A1 20200604

DOCDB simple family (application)  
**EP 2018065196 W 20180608**; CN 201880035209 A 20180608; EP 18728424 A 20180608; FR 1755522 A 20170616; US 201816614553 A 20180608