

Title (en)
DEVICE FOR COUPLING A TRAILER

Title (de)
VORRICHTUNG ZUM ANKUPPELN EINES ANHÄNGERS

Title (fr)
DISPOSITIF DESTINÉ À L'ATTELAGE D'UNE REMORQUE

Publication
EP 4093621 A1 20221130 (DE)

Application
EP 20785970 A 20201001

Priority
• DE 102020101304 A 20200121
• DE 102020117528 A 20200702
• EP 2020077594 W 20201001

Abstract (en)
[origin: CN115279602A] The invention relates to a device which can be assembled to the rear of a motor vehicle body for connecting a trailer or a loading unit, comprising a retaining arm which is rigidly connected to the motor vehicle body at a first end during operation and is designed to support a connecting element at a second end, the holding arm is provided with a sensor arrangement comprising at least three deformation sensors, and wherein the at least three deformation sensors output sensor values from which at least one component force is derived by means of an evaluation unit.

IPC 8 full level
B60D 1/06 (2006.01); **B60D 1/24** (2006.01); **B60D 1/62** (2006.01)

CPC (source: EP US)
B60D 1/06 (2013.01 - EP US); **B60D 1/248** (2013.01 - EP US); **B60D 1/52** (2013.01 - US); **B60D 1/54** (2013.01 - US);
B60D 1/62 (2013.01 - EP US); **B60W 30/02** (2013.01 - US); **G01L 1/2262** (2013.01 - US); **B60W 2530/207** (2020.02 - US)

Citation (search report)
See references of WO 2021148153A1

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)
EP 3854612 A1 20210728; CN 115279602 A 20221101; EP 4093621 A1 20221130; US 2022396106 A1 20221215

DOCDB simple family (application)
EP 21152394 A 20210119; CN 202080093615 A 20201001; EP 20785970 A 20201001; US 202217869038 A 20220720