

Title (en)

BALL HEAD COUPLING FOR A TOWING VEHICLE OF A VEHICLE COMBINATION

Title (de)

KUGELKOPFKUPPLUNG FÜR EIN ZUGFAHRZEUG EINES FAHRZEUGVERBUNDES

Title (fr)

ACCOUPLLEMENT À ROTULE POUR UN VÉHICULE TRACTEUR D'UNE COMBINAISON DE VÉHICULES

Publication

**EP 4323210 A1 20240221 (DE)**

Application

**EP 22721665 A 20220407**

Priority

- DE 102021109070 A 20210412
- EP 2022059221 W 20220407

Abstract (en)

[origin: WO2022218803A1] The present invention relates to a ball head coupling (1) for a towing vehicle of a vehicle combination with a ball head (10), which extends substantially along a longitudinal axis (X'). The ball head coupling (1) is characterised by having at least one wear detection means (6) which is aligned perpendicular to the longitudinal axis (X) and arranged in the ball head (10) in such a way that wear of the ball head (10) perpendicular to the longitudinal axis (X') can be detected optically and/or by sensors.

IPC 8 full level

**B60D 1/06** (2006.01); **B60D 1/62** (2006.01)

CPC (source: EP)

**B60D 1/06** (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 102021109070 A1 20221013**; EP 4323210 A1 20240221; WO 2022218803 A1 20221020

DOCDB simple family (application)

**DE 102021109070 A 20210412**; EP 2022059221 W 20220407; EP 22721665 A 20220407