

Title (en)

COUPLING DEVICE WITH SINGLE-PIECE SPRING ASSEMBLIES

Title (de)

KUPPLUNGSVORRICHTUNG MIT EINSTÜCKIGEN FEDERPAKETEN

Title (fr)

DISPOSITIF D'ACCOUPLEMENT POURVU DE BLOCS-RESSORTS MONOBLOC

Publication

EP 4112416 B1 20230802 (DE)

Application

EP 21182843 A 20210630

Priority

EP 21182843 A 20210630

Abstract (en)

[origin: WO2023275147A1] The invention relates to a coupling device (1) for connecting carriage elements of a goods carriage, comprising a coupling rod (2) and two linkages (3) arranged at the ends of the coupling rod (2) for connecting the coupling rod (2) to a respective carriage element, wherein at least one of the linkages (3) comprises a force-transmitting body (5), and a first and a second damping element, which are arranged on both sides of the force-transmitting body (5), wherein the first and the second damping element each have at least two metal discs (19), between which an elastomeric plastic (20) is adhered or cured in such a way that the metal discs (19) and the plastic between the metal discs (19) form an integrally formed spring assembly (6, 7).

IPC 8 full level

B61G 9/06 (2006.01); **B61G 9/04** (2006.01)

CPC (source: EP)

B61G 9/04 (2013.01); **B61G 9/06** (2013.01)

Citation (examination)

- SK 9218 Y1 20210714 - SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE [SK], et al
- US 2010059470 A1 20100311 - CARLSTEDT RICHARD A [US], et al
- SK 2012020 U1 20210310 - SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE [SK], et al

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)

EP 4112416 A1 20230104; **EP 4112416 B1 20230802**; HR P20231094 T1 20231222; HU E062948 T2 20231228; PL 4112416 T3 20231120; PT 4112416 T 20231211; SI 4112416 T1 20231130; WO 2023275147 A1 20230105

DOCDB simple family (application)

EP 21182843 A 20210630; EP 2022067904 W 20220629; HR P20231094 T 20210630; HU E21182843 A 20210630; PL 21182843 T 20210630; PT 21182843 T 20210630; SI 202130063 T 20210630