

Title (en)

TRACTION BEAM FOR RAIL TRAIN, AND TRACTION DEVICE

Title (de)

ZUGTRÄGER FÜR SCHIENENZUG UND ZUGVORRICHTUNG

Title (fr)

POUTRE DE TRACTION POUR TRAIN SUR RAILS, ET DISPOSITIF DE TRACTION

Publication

EP 4206055 A4 20240110 (EN)

Application

EP 21902716 A 20211210

Priority

- CN 202011438180 A 20201210
- CN 2021137049 W 20211210

Abstract (en)

[origin: EP4206055A1] A traction beam for a rail train, and a traction device. The traction device comprises the traction beam; the traction beam comprises an intermediate and two ends arranged at the two ends of the intermediate; a pin sleeve hole used for mounting a central pin sleeve is provided on the intermediate; a pull rod hole used for connecting a traction pull rod is provided on each end; the end comprises a main part, the cross-sectional area of the main part shrinking along a length direction of the traction beam; the end, having a larger cross-sectional area, of the main part is connected to the intermediate; a curved part is provided on a side surface of the intermediate; the side surface of the intermediate, by means of the curved surface part thereof, is in smooth transition with a side surface of the main part. The traction beam and the traction device provided by the present application are light in weight and high in structural strength, can fully satisfy bearing requirements, is small in size and small in occupied vertical installation space, and does not affect the arrangement of an anti-side rolling device.

IPC 8 full level

B61F 5/16 (2006.01); **B61F 5/18** (2006.01)

CPC (source: CN EP)

B61F 5/18 (2013.01 - EP); **B61G 1/40** (2013.01 - CN); **B61G 7/10** (2013.01 - CN)

Citation (search report)

- [XAI] EP 1254821 A1 20021106 - SIEMENS AG [DE]
- [A] KR 20100114780 A 20101026 - JANG NAM IN [KR]
- [A] CN 112026838 A 20201204 - CRRRC QINGDAO SIFANG CO LTD
- See also references of WO 2022122011A1

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 4206055 A1 20230705; EP 4206055 A4 20240110; CN 112606862 A 20210406; CN 112606862 B 20220531; JP 2023548623 A 20231117; JP 7483138 B2 20240514; WO 2022122011 A1 20220616

DOCDB simple family (application)

EP 21902716 A 20211210; CN 202011438180 A 20201210; CN 2021137049 W 20211210; JP 2023528234 A 20211210