

Title (en)
RAILWAY TRAIN AND ELECTRIC MOTOR SUSPENSION MECHANISM THEREOF

Title (de)
EISENBAHNZUG UND ELEKTROMOTORAUFHÄNGUNGSMECHANISMUS DAFÜR

Title (fr)
TRAIN ET SON MÉCANISME DE SUSPENSION DE MOTEUR ÉLECTRIQUE

Publication
EP 3617031 A4 20200812 (EN)

Application
EP 17935481 A 20171228

Priority

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- CN 201721827946 U 20171222
- CN 2017119336 W 20171228

Abstract (en)
[origin: EP3617031A1] Provided are an electric motor suspension mechanism of a railway train, and a railway train comprising the electric motor suspension mechanism. The electric motor suspension mechanism comprises a connection member for connecting a bogie frame, and a safety pin (2) and a cantilever (3) mounted on the connection member and horizontally arranged, wherein one end of the cantilever (3) is used for connecting an electric motor (5), and the other end of the cantilever (3) is movably connected to the safety pin (2) and can move in the lengthwise direction of the safety pin (2); and an elastic limiting member for limiting the range of movement of the cantilever (3) is mounted on the safety pin (2). The connection member is connected to the bogie frame, the cantilever (3) is connected to the electric motor (5), and the cantilever (3) is connected to the connection member by means of the safety pin (2), thereby realizing the connection between the electric motor (5) and the bogie frame. When problems occur on other suspension components, the electric motor (5) can be suspended by means of the cantilever (3), and the electric motor (5) can also be limited by means of the elastic limiting member on the safety pin (2), thus providing multiple measures for ensuring the suspension of the electric motor (5) while also realizing the limiting of the electric motor (5).

IPC 8 full level
B61C 9/50 (2006.01); **B61F 5/52** (2006.01)

CPC (source: EP)
B61C 9/50 (2013.01)

Citation (search report)

- [XA] US 4228739 A 19801021 - FITZGIBBON THOMAS F
- [A] US 3877388 A 19750415 - HALL WALTER O, et al
- [A] US 2016001793 A1 20160107 - HAIGERMOSER ANDREAS [AT], et al
- See references of WO 2019119502A1

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

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EP 3617031 A1 20200304; EP 3617031 A4 20200812; EP 3617031 B1 20220511; MY 197058 A 20230523; WO 2019119502 A1 20190627

DOCDB simple family (application)
EP 17935481 A 20171228; CN 2017119336 W 20171228; MY PI2018001945 A 20181115