

Title (en)

BRAKE DEVICE, E.G. WITH A WEDGE-SHAPED BRAKE ELEMENT, FOR BRAKING A TRAVELLING BODY THAT CAN BE MOVED IN A GUIDED MANNER ALONG A GUIDE RAIL IN A MOVEMENT DIRECTION

Title (de)

BREMSVORRICHTUNG, BEISPIELSWEISE MIT EINEM EXZENTERELEMENT, ZUM BREMSSEN EINES ENTLANG EINER FÜHRUNGSSCHIENE IN EINER VERLAGERUNGSRICHTUNG GEFÜHRT VERLAGERBAREN FAHRKÖRPERS

Title (fr)

DISPOSITIF DE FREINAGE, PAR EXEMPLE, AVEC UN ÉLÉMENT DE FREIN EN FORME DE COIN, POUR FREINER UN CORPS MOBILE QUI PEUT SE DÉPLACER DE MANIÈRE GUIDÉE LE LONG D'UN RAIL DE GUIDAGE DANS UNE DIRECTION DE MOUVEMENT

Publication

EP 4072987 A1 20221019 (DE)

Application

EP 20812115 A 20201211

Priority

- EP 19215737 A 20191212
- EP 2020084114 W 20201211

Abstract (en)

[origin: WO2021115845A1] The invention relates to a brake device (1) for braking a travelling body (3) that can be moved in a guided manner along a guide rail (5) in a movement direction (47). The brake device (1) comprises a holder (17), a brake element (19), a pretensioning element (21), a release element (23) and a pressure element (25). The brake element (19) comprises a brake surface (31) directed towards the guide rail (5) and is mounted and retained on the holder (17) in such a way that the brake element (19) can be moved relative to the holder (17) between a freewheel position and a braking position, wherein the brake surface (31) of the brake element (19) is laterally spaced apart from the guide rail (5) in the freewheel position and laterally pressed against the guide rail (5) in the braking position. In a deactivated configuration, the pretensioning element (21) is configured to not exert any of the force moving the brake element (19) towards the braking position on the brake element (19), and in an activated configuration, it is configured to exert a force moving the brake element (19) towards the braking position on the brake element (19). In a retaining state, the release element (23) is configured to retain the pretensioning element (21) in the first configuration, and when activating the release element (23) into a released state, it is configured to change the pretensioning element (21) from the deactivated configuration into the activated configuration. In an unactuated state, the pressure element (25) is configured to not generate any force on the brake element (19) in a direction towards the guide rail (5), and in an actuated state, it is configured to generate a force on the brake element (19) in a direction towards the guide rail (5).

IPC 8 full level

B66B 5/20 (2006.01)

CPC (source: EP KR US)

B66B 5/20 (2013.01 - EP KR US)

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)

WO 2021115845 A1 20210617; AU 2020401242 A1 20220630; AU 2020401242 B2 20240606; BR 112022009025 A2 20220809; CN 114787064 A 20220722; EP 4072987 A1 20221019; EP 4072987 B1 20231101; ES 2967305 T3 20240429; JP 2023505699 A 20230210; KR 20220110214 A 20220805; US 11897731 B2 20240213; US 2023012252 A1 20230112

DOCDB simple family (application)

EP 2020084114 W 20201211; AU 2020401242 A 20201211; BR 112022009025 A 20201211; CN 202080086078 A 20201211; EP 20812115 A 20201211; ES 20812115 T 20201211; JP 2022535569 A 20201211; KR 20227019512 A 20201211; US 202017756914 A 20201211