Title (en)

MAGNETORHEOLOGICAL BRAKE DEVICE, IN PARTICULAR AN OPERATING DEVICE

Title (de)

MAGNETORHEOLOGISCHE BREMSVORRICHTUNG, INSBESONDERE BEDIENEINRICHTUNG

Title (fr)

SYSTÈME DE FREINAGE MAGNÉTORHÉOLOGIQUE, EN PARTICULIER DISPOSITIF DE COMMANDE

Publication

EP 4052111 A1 20220907 (DE)

Application

EP 20811526 A 20201031

Priority

- DE 102019129548 A 20191031
- DE 102019135030 A 20191218
- EP 2020080613 W 20201031

Abstract (en)

[origin: WO2021084121A1] The invention relates to a magnetorheological brake device (1) for adjusting operating states by means of rotational movements, comprising an axle unit (2) and a rotary body (3) that can be rotated relative to the axle unit (2). A torque for the rotation of the rotary body (3) can be varied in a targeted manner by means of a magnetorheological brake device (4). A sensor device (5) functions to detect a rotational position of the rotary body (3) and comprises a magnet ring unit (15) and a magnet field sensor (25) rotationally fixed to the axle unit (2) and arranged radially and/or axially next to the magnet ring unit (15). The magnet field sensor (25) is also arranged at least partially within the axle unit (2).

IPC 8 full level

G05G 1/10 (2006.01); **F16F 9/53** (2006.01); **G05G 5/03** (2008.04)

CPC (source: CN EP KR US)

F16D 57/002 (2013.01 - US); **F16F 9/535** (2013.01 - CN KR); **G05G 1/10** (2013.01 - CN EP KR); **G05G 5/03** (2013.01 - CN EP KR US); F16D 2066/003 (2013.01 - US); F16D 2121/20 (2013.01 - US); F16F 9/535 (2013.01 - EP)

Citation (search report)

See references of WO 2021084121A1

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 2021084121 A1 20210506; CN 114600058 A 20220607; CN 114600058 B 20231208; EP 4052111 A1 20220907; JP 2023500860 A 20230111; JP 7397530 B2 20231213; KR 20220048027 A 20220419; US 2022403897 A1 20221222

DOCDB simple family (application)

EP 2020080613 W 20201031; CN 202080073451 A 20201031; EP 20811526 A 20201031; JP 2022525517 A 20201031; KR 20227008985 A 20201031; US 202017772355 A 20201031