

Title (en)

ACTUATOR FOR MOTOR VEHICLE APPLICATIONS

Title (de)

STELLANTRIEB FÜR KRAFTFAHRZEUGTECHNISCHE ANWENDUNGEN

Title (fr)

ACTIONNEUR POUR APPLICATIONS AUTOMOBILES

Publication

EP 4093991 A1 20221130 (DE)

Application

EP 21701646 A 20210113

Priority

- DE 102020101362 A 20200121
- DE 2021100032 W 20210113

Abstract (en)

[origin: WO2021148081A1] The invention relates to an actuator (1) for motor vehicle applications, in particular for motor vehicle closing devices, comprising an electric motor (3), an actuating element (5) which can be directly or indirectly acted upon via a drive train (4), and, arranged on a drive shaft (8) of the electric motor (3), a drive wheel (9) with an evoloid toothing, the drive train (4) having at least one crown gear stage (12).

IPC 8 full level

F16H 1/12 (2006.01); **E05B 81/34** (2014.01); **E05F 15/603** (2015.01); **F16H 55/06** (2006.01)

CPC (source: EP KR US)

E05B 81/06 (2013.01 - EP KR US); **E05B 81/16** (2013.01 - EP KR US); **E05B 81/28** (2013.01 - EP KR US); **E05B 81/34** (2013.01 - EP KR US); **E05B 81/90** (2013.01 - EP KR US); **E05B 83/34** (2013.01 - EP KR US); **E05F 15/603** (2015.01 - EP KR); **E05F 15/616** (2015.01 - EP KR US); **F16H 1/125** (2013.01 - KR US); **E05Y 2201/71** (2013.01 - EP KR US); **E05Y 2400/3013** (2024.05 - EP KR US); **E05Y 2900/53** (2013.01 - EP KR US); **E05Y 2900/534** (2013.01 - EP KR US); **F16H 1/125** (2013.01 - EP)

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)

DE 102020101362 A1 20210722; CN 115003930 A 20220902; EP 4093991 A1 20221130; JP 2023510967 A 20230315; KR 20220126775 A 20220916; US 12098583 B2 20240924; US 2023087426 A1 20230323; WO 2021148081 A1 20210729

DOCDB simple family (application)

DE 102020101362 A 20200121; CN 202180010737 A 20210113; DE 2021100032 W 20210113; EP 21701646 A 20210113; JP 2022544113 A 20210113; KR 20227028920 A 20210113; US 202117793429 A 20210113