

Title (en)
SPINDLE DRIVE

Title (de)
SPINDELANTRIEB

Title (fr)
ENTRAÎNEMENT À BROCHE

Publication
EP 4381159 A1 20240612 (DE)

Application
EP 22768377 A 20220822

Priority
• DE 102021121801 A 20210823
• EP 2022073274 W 20220822

Abstract (en)
[origin: WO2023025702A1] The invention relates to a spindle drive for a closure element (3) of a motor vehicle (4), wherein the spindle drive (1) has a spindle/spindle nut mechanism (5), which has a spindle (6) and a spindle nut (7) meshing therewith for generating linear drive movements along a geometric spindle axis (A) between a spindle-side drive connection (9a) and a spindle nut-side drive connection (9b) for channelling the drive movements, wherein the spindle (6) is axially movably guided in a spindle guide tube (10) which is axially fixedly connected to the spindle nut (7) for conjoint rotation and which is axially fixedly coupled to the spindle nut-side drive connection (9b). It is proposed that the spindle nut (7) is axially inserted over its entire length into a portion of the spindle guide tube (10) that is formed in such a way as to be in form-fitting engagement with the spindle nut (7) in both directions along the geometric spindle axis (A) and in the circumferential direction around the geometric spindle axis (A).

IPC 8 full level
E05F 15/622 (2015.01)

CPC (source: EP)
E05F 15/622 (2013.01); **E05Y 2201/702** (2013.01); **E05Y 2600/506** (2013.01); **E05Y 2800/45** (2013.01); **E05Y 2900/546** (2013.01)

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 102021121801 A1 20230223; CN 117881868 A 20240412; EP 4381159 A1 20240612; WO 2023025702 A1 20230302

DOCDB simple family (application)
DE 102021121801 A 20210823; CN 202280057058 A 20220822; EP 2022073274 W 20220822; EP 22768377 A 20220822