

Title (en)

CONCEPT FOR A NUT OF A ROLLER SCREW DRIVE

Title (de)

KONZEPT FÜR EINE MUTTER EINES WÄLZGEWINDETRIEBS

Title (fr)

CONCEPT POUR UN ÉCROU DE VIS D'ENTRAÎNEMENT À ROULEMENTS

Publication

EP 2715187 A1 20140409 (DE)

Application

EP 12724119 A 20120524

Priority

- DE 102011076438 A 20110525
- EP 2012059738 W 20120524

Abstract (en)

[origin: WO2012160149A1] The invention relates to a concept for a nut or a spindle for a roller screw drive, characterized in that the nut or the spindle comprises a thread turn (110) that is designed to guide rolling elements (120) along a thread in such a way that the rolling elements (120) are in engagement with the thread of the spindle or of the nut and force is transmitted between the nut and the spindle. The thread turn (110) is designed to return the rolling elements (120) to a return channel and to receive the rolling elements (120) from the return channel. The thread turn (110) is further designed to unburden the rolling elements (120) from the force transmission before being returned to the return channel and/or to load the rolling elements (120) with the force transmission only after being received from the return channel.

IPC 8 full level

F16H 25/22 (2006.01)

CPC (source: EP)

F16H 25/2214 (2013.01)

Citation (search report)

See references of WO 2012160149A1

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

DOCDB simple family (publication)

DE 102011076438 A1 20121129; DE 102011076438 B4 20200312; EP 2715187 A1 20140409; WO 2012160149 A1 20121129

DOCDB simple family (application)

DE 102011076438 A 20110525; EP 12724119 A 20120524; EP 2012059738 W 20120524