

Title (en)

RECIRCULATING BALL NUT, ASSEMBLY FOR A BALLSCREW DRIVE AND METHOD FOR PRODUCING A RECIRCULATING BALL NUT

Title (de)

KUGELUMLAUFMUTTER, BAUGRUPPE FÜR EINEN KUGELGEWINDEANTRIEB UND VERFAHREN ZUR HERSTELLUNG EINER KUGELUMLAUFMUTTER

Title (fr)

ÉCROU À CIRCULATION DE BILLES, SOUS-ENSEMBLE POUR UN ENTRAÎNEMENT PAR VIS À BILLES ET PROCÉDÉ DE FABRICATION D'UN ÉCROU À CIRCULATION DE BILLES

Publication

EP 3107795 A1 20161228 (DE)

Application

EP 15702429 A 20150127

Priority

- DE 102014102132 A 20140219
- EP 2015051615 W 20150127

Abstract (en)

[origin: WO2015124387A1] The invention relates to a recirculating ball nut (12) for a ballscrew drive, comprising a base (13) which has at least one recirculating ball path (26). According to the invention, the base (13) is a forged part and the ball raceway (26) is produced by a machining method. The invention further relates to an assembly (10) for a ballscrew drive of a power steering system (14), comprising a pulley (16) and a recirculating ball nut (12) according to the invention, the pulley (16) being connected to the recirculating ball nut (12) for conjoint rotation. The invention also relates to a method for producing a recirculating ball nut (12).

IPC 8 full level

B62D 5/04 (2006.01); **B21H 3/08** (2006.01); **B21K 1/56** (2006.01); **B21K 1/64** (2006.01); **F16H 25/20** (2006.01); **F16H 25/22** (2006.01); **F16H 25/24** (2006.01)

CPC (source: CN EP US)

B21K 1/04 (2013.01 - EP US); **B21K 1/26** (2013.01 - CN EP US); **B23C 3/28** (2013.01 - US); **B62D 5/0424** (2013.01 - CN EP US); **B62D 5/0448** (2013.01 - CN EP US); **F16H 25/2204** (2013.01 - CN EP US); **F16H 25/2223** (2013.01 - US); **F16H 25/24** (2013.01 - CN EP US); **B21K 1/04** (2013.01 - CN); **B23C 2220/28** (2013.01 - US); **F16H 2025/2081** (2013.01 - CN EP US); **F16H 2025/2096** (2013.01 - CN EP US); **F16H 2025/2481** (2013.01 - CN EP US)

Citation (search report)

See references of WO 2015124387A1

Citation (examination)

DE 102006041719 A1 20080327 - VOLKSWAGEN AG [DE]

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)

DE 102014102132 A1 20150820; CN 106030156 A 20161012; EP 3107795 A1 20161228; US 10119600 B2 20181106; US 2017030448 A1 20170202; WO 2015124387 A1 20150827

DOCDB simple family (application)

DE 102014102132 A 20140219; CN 201580009394 A 20150127; EP 15702429 A 20150127; EP 2015051615 W 20150127; US 201515119140 A 20150127