

Title (en)

Starter mechanism and method of assembling and/or producing a starter mechanism

Title (de)

Andrehvorrichtung und Verfahren zur Montage und/oder Herstellung einer Andrehvorrichtung

Title (fr)

Dispositif de démarrage et procédé de montage et/ou de fabrication d'un dispositif de démarrage

Publication

**EP 2713041 A3 20170412 (DE)**

Application

**EP 13183279 A 20130906**

Priority

DE 102012217517 A 20120927

Abstract (en)

[origin: EP2713041A2] The device (100) has a freewheel gear box (33) arranged on forehead geometry of an axial confinement. A guide unit is provided in forehead geometry of an outer part and a sinking part e.g. inner recess, ribs, slots and grooves. An outer rim is connected with the guide unit. A closure cap is provided on the axial confinement, the guide unit and the outer part. Outer dimension of the guide unit is less than that of the outer part. An independent claim is also included for a method for manufacturing a turning device.

IPC 8 full level

**F02N 15/00** (2006.01); **F02N 15/02** (2006.01); **F02N 15/04** (2006.01); **F02N 15/06** (2006.01)

CPC (source: EP)

**F02N 15/006** (2013.01); **F02N 15/023** (2013.01); **F02N 15/046** (2013.01); **F02N 15/067** (2013.01)

Citation (search report)

- [X] JP H02115571 A 19900427 - MITSUBA ELECTRIC MFG CO
- [X] CN 201810449 U 20110427 - SHAOKANG YAN
- [X] JP S5514089 U 19800129
- [I] DE 3040074 A1 19820603 - BOSCH GMBH ROBERT [DE]
- [X] DE 2002074 A1 19710729 - BOSCH GMBH ROBERT
- [X] JP H1037831 A 19980213 - HITACHI LTD
- [I] EP 2492493 A2 20120829 - BOSCH GMBH ROBERT [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)

**EP 2713041 A2 20140402**; **EP 2713041 A3 20170412**; **EP 2713041 B1 20190904**; CN 103696892 A 20140402; CN 103696892 B 20170301; DE 102012217517 A1 20140327; HU E045870 T2 20200128

DOCDB simple family (application)

**EP 13183279 A 20130906**; CN 201310450667 A 20130925; DE 102012217517 A 20120927; HU E13183279 A 20130906