

Title (en)

ELECTRIC MOTOR AND INTERNAL COMBUSTION ENGINE STARTER SPEED REDUCER

Title (de)

ELEKTROMOTOR UND BRENNKRAFTMASCHINE STARTER GETRIEBE

Title (fr)

ENSEMBLE POUR REDUCTEUR DE VITESSE D'UNE MACHINE ELECTRIQUE TOURNANTE ET DEMARREUR POUR MOTEUR THERMIQUE ASSOCIE

Publication

**EP 2655863 B1 20180509 (FR)**

Application

**EP 11817389 A 20111219**

Priority

- FR 1060785 A 20101220
- FR 2011053048 W 20111219

Abstract (en)

[origin: WO2012085424A1] The invention essentially relates to an assembly (57) for a speed reducer of a rotary electric machine, comprising: a ring gear (46) secured to a transverse wall (58); a base plate (60) to be securely and rotatably mounted relative to a mounting (16) of the machine; an axially acting resilient means, such as an axially acting resilient disc (64); and an added hub (68) on which the transverse wall (58) of the ring gear (46), the base plate (60), and the resilient means (64) are mounted. Said hub (68) has at least one first shoulder (71) for supporting the axially acting resilient means (64), and at least one second shoulder (72) for supporting the transverse wall (58) of the ring gear (46). The invention also relates to a starter, particularly for a motor vehicle, provided with such an assembly.

IPC 8 full level

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

CPC (source: EP KR US)

**F02N 15/04** (2013.01 - KR); **F02N 15/043** (2013.01 - US); **F02N 15/046** (2013.01 - EP US); **F02N 15/06** (2013.01 - KR); **F02N 15/062** (2013.01 - US); **F02N 15/065** (2013.01 - EP US)

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)

**FR 2969219 A1 20120622**; **FR 2969219 B1 20130111**; BR 112013008506 A2 20160705; CN 103270290 A 20130828; CN 103270290 B 20160810; EP 2655863 A1 20131030; EP 2655863 B1 20180509; KR 20140017504 A 20140211; US 2014007834 A1 20140109; US 9309856 B2 20160412; WO 2012085424 A1 20120628

DOCDB simple family (application)

**FR 1060785 A 20101220**; BR 112013008506 A 20111219; CN 201180061363 A 20111219; EP 11817389 A 20111219; FR 2011053048 W 20111219; KR 20137015899 A 20111219; US 201113994621 A 20111219