

Title (en)

STARTING DEVICE FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

STARTVORRICHTUNG FÜR EINE BRENNKRAFTMASCHINE

Title (fr)

DISPOSITIF DE DEMARRAGE D'UN MOTEUR A COMBUSTION INTERNE

Publication

**EP 2519735 B1 20200624 (DE)**

Application

**EP 10787074 A 20101125**

Priority

- DE 102009060957 A 20091230
- EP 2010068191 W 20101125

Abstract (en)

[origin: WO2011080014A1] The invention relates to a starting device for an internal combustion engine, having a hollow shaft (34), a pinion element (43), which comprises a pinion shank (37) having a shank axis (46) in a displacement direction of the pinion shank (37), wherein the pinion shank (37) is inserted in the hollow shaft (34), characterised in that an axial movement of the pinion shank (37) relative to the hollow shaft (34) is limited by a securing element (76), which is secured in the hollow shaft (34) directly or indirectly by an press fit.

IPC 8 full level

**F02N 15/00** (2006.01)

CPC (source: EP US)

**F02N 15/065** (2013.01 - EP US); **F02N 15/023** (2013.01 - EP US); **F02N 15/067** (2013.01 - EP US); **F02N 2015/061** (2013.01 - EP US); **Y10T 74/13** (2015.01 - EP US); **Y10T 74/132** (2015.01 - EP US); **Y10T 74/1987** (2015.01 - EP US)

Cited by

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DOCDB simple family (publication)

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