

Title (en)
STARTER FOR AN INTERNAL COMBUSTION ENGINE

Title (de)
STARTER FÜR EINE BRENNKRAFTMASCHINE

Title (fr)
DÉMARREUR POUR MOTEUR À COMBUSTION INTERNE

Publication
EP 2519736 A2 20121107 (DE)

Application
EP 10795673 A 20101217

Priority
• DE 102009055373 A 20091229
• EP 2010070012 W 20101217

Abstract (en)
[origin: WO2011080118A2] The invention relates to a starter for an internal combustion engine, comprising a pinion shaft axially displaceably mounted on a drive shaft and being a starter pinion. In order to axially limit the feed displacement of the pinion shaft, a stop device having a stop ring is provided on the drive shaft and a stop counterpart is provided on the pinion shaft. The stop counterpart is implemented as a separately implemented component that can be attached to the inner face of the pinion shaft. The starter pinion forms an insert pinion that can be placed on a lateral carrier segment of the pinion shaft.

IPC 8 full level
F02N 15/06 (2006.01); **F16B 21/18** (2006.01)

CPC (source: EP)
F02N 15/065 (2013.01); **F02N 11/00** (2013.01); **F02N 15/022** (2013.01); **F16B 21/186** (2013.01)

Citation (search report)
See references of WO 2011080118A2

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)
WO 2011080118 A2 20110707; WO 2011080118 A3 20110909; CN 102686871 A 20120919; DE 102009055373 A1 20110630; EP 2519736 A2 20121107

DOCDB simple family (application)
EP 2010070012 W 20101217; CN 201080059708 A 20101217; DE 102009055373 A 20091229; EP 10795673 A 20101217