

Title (en)

STARTER DRIVE UNIT WITH FRICTION CLUTCH FOR A STARTER OF A COMBUSTION ENGINE

Title (de)

ANLASSERANTRIEB MIT REIBUNGSKUPPLUNG FÜR EINEN ANLASSER EINES VERBRENNUNGSMOTORS

Title (fr)

LANCEUR AVEC EMBRAYAGE À FRICTION POUR UN DÉMARREUR D'UN MOTEUR THERMIQUE

Publication

EP 2737200 A2 20140604 (FR)

Application

EP 12744099 A 20120724

Priority

- FR 1156807 A 20110726
- FR 2012051754 W 20120724

Abstract (en)

[origin: WO2013014388A2] The invention relates to a friction starter drive unit for a starter, comprising: a pinion including a hole for the passage of a drive shaft; a drive part including a hole for the passage of a drive shaft, said drive part being mounted such as to be rotationally fixed with the pinion; a drive element including a hole for the passage of a drive shaft of a starter, which element can move in translation along axis X of the hole in relation to the drive part between an uncoupled position and a coupled position; and a friction coupling means arranged to couple the drive element to the drive part when the drive element is in the coupled position. The starter drive unit is characterised in that it comprises a return means that exerts a force on the drive element and a force on the drive part in the direction of the uncoupled position.

IPC 8 full level

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

CPC (source: EP US)

F02N 15/025 (2013.01 - EP US); **F02N 15/062** (2013.01 - EP US); **F02N 15/067** (2013.01 - EP US); **F16D 13/38** (2013.01 - US); **F16D 13/58** (2013.01 - US); **F02N 15/022** (2013.01 - EP US); **F02N 15/023** (2013.01 - EP US); **F02N 15/046** (2013.01 - EP US)

Citation (search report)

See references of WO 2013014388A2

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 2013014388 A2 20130131; **WO 2013014388 A3 20130328**; CN 103717880 A 20140409; EP 2737200 A2 20140604; FR 2978501 A1 20130201; FR 2978501 B1 20160318; US 2014299437 A1 20141009

DOCDB simple family (application)

FR 2012051754 W 20120724; CN 201280037182 A 20120724; EP 12744099 A 20120724; FR 1156807 A 20110726; US 201214235396 A 20120724