

Title (en)
STARTER HAVING A DRIVE MECHANISM PROVIDED WITH AN INTERMEDIATE ELEMENT FOR REDUCING FRICTION BETWEEN A CONTROL LEVER AND A DRIVER

Title (de)
ANLASSER MIT EINEM ANTRIEBSMECHANISMUS MIT EINEM ZWISCHENELEMENT ZUR VERMINDERUNG DER REIBUNG ZWISCHEN EINEM STEUERHEBEL UND EINEM FAHRER

Title (fr)
DÉMARREUR A LANCEUR MUNI D'UN ÉLÉMENT INTERMÉDIAIRE DE RÉDUCTION DE FROTTEMENT ENTRE UN LEVIER DE COMMANDE ET UN ENTRAÎNEUR

Publication
EP 2984329 A2 20160217 (FR)

Application
EP 14723462 A 20140410

Priority
• FR 1353209 A 20130410
• FR 2014050867 W 20140410

Abstract (en)
[origin: WO2014167254A2] The invention mainly relates to a starter (30) having a drive mechanism for a heat engine of a motor vehicle comprising: a drive pinion (32) for meshing with a starter ring gear (35) of a heat engine, a driver (81) mounted on a drive shaft (33), a friction clutch (82) inserted between the driver (81) and the drive pinion (32) including a reaction element (91) rotatably secured to the drive pinion (32) and a pressure element (92) rotatably secured to the driver (81) which is mobile relative to the reaction element (91), and a control lever (65) comprising a portion, referred to as a thrust portion (174), capable of pushing the driver (81) in order to switch the clutch (82) from an unlocked state in which the driver (81) and the drive pinion (32) are rotatably uncoupled relative to one another to a locked state in which the drive pinion (32) and the driver (81) are coupled with one another. According to the invention, an intermediate element (181, 181') is mounted between the thrust portion (174) of the control lever (65) and the driver (81), said intermediate element being such that at least one portion of said intermediate element that is in direct or indirect contact with the thrust portion (174) of the control lever rotates at least three times slower than the driver when the clutch (81) is in the locked state.

IPC 8 full level
F02N 15/02 (2006.01); **F02N 15/06** (2006.01)

CPC (source: EP)
F02N 15/025 (2013.01); **F02N 15/062** (2013.01); **F02N 15/067** (2013.01); **F02N 11/00** (2013.01); **F02N 15/046** (2013.01); **F02N 15/063** (2013.01)

Citation (search report)
See references of WO 2014167254A2

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)
WO 2014167254 A2 20141016; WO 2014167254 A3 20150409; CN 205592056 U 20160921; EP 2984329 A2 20160217; FR 3004497 A1 20141017; FR 3004497 B1 20150327

DOCDB simple family (application)
FR 2014050867 W 20140410; CN 201490000581 U 20140410; EP 14723462 A 20140410; FR 1353209 A 20130410