

Title (en)

Starter device for an internal combustion engine, in particular of an automobile

Title (de)

Anlassvorrichtung für Verbrennungsmotor, insbesondere von Kraftfahrzeugen

Title (fr)

Dispositif de démarrage pour moteur à combustion interne, notamment de véhicule automobile

Publication

**EP 2233732 B1 20110525 (FR)**

Application

**EP 10157249 A 20100322**

Priority

FR 0951873 A 20090324

Abstract (en)

[origin: EP2233732A1] The device has a starter drive assembly for starting a combustion engine through a toothed crown wheel. An electrical motor rotatably drives the drive assembly. The motor has a stator (3) comprising an inductor winding (5) formed by a set of coils, where one of the coils presents low electrical resistance and another coil presents high electrical resistance. A set of contactors (55) of the motor controls power supply of a portion of shunt coils (51, 52) before controlling the power supply of all coils of the inductor winding. An independent claim is also included for a method for starting a combustion engine of a motor vehicle.

IPC 8 full level

**F02N 11/08** (2006.01); **F02N 15/06** (2006.01)

CPC (source: EP)

**F02N 11/0859** (2013.01); **F02N 15/06** (2013.01); **F02N 2011/0877** (2013.01); **F02N 2011/0892** (2013.01)

Cited by

US2015028600A1; CN103717878A; CN103717877A; CN106968862A; FR2968721A1; CN103261670A; EP2578869A1; FR2981217A1; FR2987932A1; CN104160143A; US9077271B2; WO2013132173A1; WO2012076777A1; WO2013014352A1; WO2013014356A3

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