

Title (en)

METHOD FOR STARTING AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUM START EINER BRENNKRAFTMASCHINE

Title (fr)

PROCÉDÉ DE DÉMARRAGE D'UN MOTEUR À COMBUSTION INTERNE

Publication

**EP 2126320 B1 20160420 (DE)**

Application

**EP 07857706 A 20071217**

Priority

- EP 2007064076 W 20071217
- DE 102006061574 A 20061227
- DE 102007027709 A 20070615

Abstract (en)

[origin: DE102007027709A1] The method involves starting a function (T, T1, T2) at a particular crankshaft angle (GL2) by a controller. The function is shifted by starting an internal combustion engine up to reaching an end condition about an angle relative to another crankshaft angle. An incident, which is implemented after starting the function about an execution angle (A), is controlled, where the relative angle is smaller than the execution angle. A sensor wheel gap (GL) for an absolute-crankshaft angle is recognized. Independent claims are also included for the following: (1) a device for starting an internal combustion engine of a vehicle (2) a computer program having a set of instructions to perform a method for starting an internal combustion engine of a vehicle.

IPC 8 full level

**F02D 41/06** (2006.01); **F02D 41/34** (2006.01)

CPC (source: EP KR US)

**F02D 41/009** (2013.01 - EP US); **F02D 41/06** (2013.01 - EP KR US); **F02D 41/34** (2013.01 - KR); **F02D 41/40** (2013.01 - KR);  
**F02D 2041/0092** (2013.01 - EP US); **F02D 2250/12** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**DE 102007027709 A1 20080703**; BR PI0720865 A2 20140304; CN 101573523 A 20091104; CN 101573523 B 20130925;  
EP 2126320 A1 20091202; EP 2126320 B1 20160420; JP 2010514976 A 20100506; KR 101404878 B1 20140609; KR 20090102770 A 20090930;  
US 2011184633 A1 20110728; US 8660776 B2 20140225; WO 2008080817 A1 20080710

DOCDB simple family (application)

**DE 102007027709 A 20070615**; BR PI0720865 A 20071217; CN 200780048453 A 20071217; EP 07857706 A 20071217;  
EP 2007064076 W 20071217; JP 2009543439 A 20071217; KR 20097013425 A 20071217; US 52151307 A 20071217