

Title (en)
METHOD FOR THE EMERGENCY STARTING OF AN INTERNAL COMBUSTION ENGINE IN THE CASE OF A ROTATIONAL SPEED SENSOR FAILURE

Title (de)
VERFAHREN ZUM NOTSTART EINER VERBRENNUNGSKRAFTMASCHINE BEI DREHZAHLGEBERDEFEKT

Title (fr)
PROCEDE DE DEMARRAGE DE SECOURS EN CAS DE DEFAILLANCE D'UN CAPTEUR DE VITESSE DE ROTATION

Publication
EP 1280992 A1 20030205 (DE)

Application
EP 01915089 A 20010307

Priority
• DE 0100856 W 20010307
• DE 10021645 A 20000504

Abstract (en)
[origin: WO0183981A1] The invention relates to a method for starting an internal combustion engine, which is equipped with a starter and with a rotational speed sensor, which furnishes an output signal as a function of the rotational speed. The invention also relates to a device which is provided for measuring the vehicle system voltage and which records the progression of the battery voltage (3) during the starting phase (1) and after the starting phase (1). During the starting phase (1) of the internal combustion engine, the position of the crankshaft is established from the progression (3) of the battery voltage during the operation of the starter.

IPC 1-7
F02N 11/08

IPC 8 full level
F02D 41/06 (2006.01); **F02D 41/34** (2006.01); **F02D 45/00** (2006.01); **F02N 11/08** (2006.01)

CPC (source: EP KR US)
F02D 41/009 (2013.01 - EP US); **F02N 11/08** (2013.01 - EP KR US); **F02N 2200/021** (2013.01 - EP US); **F02N 2200/063** (2013.01 - EP US)

Citation (search report)
See references of WO 0183981A1

Designated contracting state (EPC)
DE FR IT

DOCDB simple family (publication)
WO 0183981 A1 20011108; CN 1202355 C 20050518; CN 1366582 A 20020828; DE 10021645 A1 20011129; DE 50112445 D1 20070614;
EP 1280992 A1 20030205; EP 1280992 B1 20070502; JP 2003532023 A 20031028; KR 20020031154 A 20020426; RU 2267644 C2 20060110;
US 2003154774 A1 20030821; US 6722190 B2 20040420

DOCDB simple family (application)
DE 0100856 W 20010307; CN 01801073 A 20010307; DE 10021645 A 20000504; DE 50112445 T 20010307; EP 01915089 A 20010307;
JP 2001580571 A 20010307; KR 20027000046 A 20020103; RU 2002102235 A 20010307; US 3064303 A 20030326