

Title (en)

Method for operating a glow plug when an engine is running

Title (de)

Verfahren zum Betreiben einer Glühkerze bei laufendem Motor

Title (fr)

Procédé de fonctionnement d'une bougie de préchauffage dans un moteur en marche

Publication

EP 2302200 B1 20111019 (DE)

Application

EP 10007890 A 20100729

Priority

DE 102009038098 A 20090819

Abstract (en)

[origin: US2011041818A1] The invention relates to a method for operating a glow plug with the engine running, wherein an effective voltage is generated from a vehicle electrical system voltage by pulse width modulation, the effective voltage is applied to the glow plug and changed as a function of engine parameters, a target value of the effective voltage that is dependent on the engine parameters and to which the effective voltage is changed is specified, a maximum increment for a change of the actual value of the effective voltage in at least one direction is specified, and a change of the actual value in at least one direction to a target value that deviates from the actual value by more than the maximum increment is carried out in several steps. The invention further relates to a controller which carries out such a method during operation.

IPC 8 full level

F02P 19/02 (2006.01)

CPC (source: EP US)

F02P 19/022 (2013.01 - EP US); **F02D 2041/2027** (2013.01 - EP US); **F02P 19/026** (2013.01 - EP US)

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 SE SI SK SM TR

DOCDB simple family (publication)

US 2011041818 A1 20110224; **US 8577583 B2 20131105**; AT E529629 T1 20111115; CN 101994630 A 20110330; CN 101994630 B 20140806; DE 102009038098 A1 20110224; DE 102009038098 B4 20110707; EP 2302200 A1 20110330; EP 2302200 B1 20111019; JP 2011043161 A 20110303

DOCDB simple family (application)

US 85792210 A 20100817; AT 10007890 T 20100729; CN 201010259043 A 20100819; DE 102009038098 A 20090819; EP 10007890 A 20100729; JP 2010163720 A 20100721