

Title (en)  
METHOD FOR MONITORING AT LEAST ONE GLOW PLUG OF AN INTERNAL COMBUSTION ENGINE AND CORRESPONDING DEVICE

Title (de)  
VERFAHREN ZUR ÜBERWACHUNG VON WENIGSTENS EINER GLÜHSTIFTKERZE EINES BRENNKRAFTMOTORS UND VORRICHTUNG  
HIERZU

Title (fr)  
PROCÉDÉ POUR CONTRÔLER AU MOINS UNE BOUGIE-CRAYON DE PRÉCHAUFFAGE D'UN MOTEUR À COMBUSTION INTERNE ET  
DISPOSITIF CORRESPONDANT

Publication  
**EP 2240677 A1 20101020 (DE)**

Application  
**EP 08872082 A 20081114**

Priority

- EP 2008065550 W 20081114
- DE 102008007397 A 20080204

Abstract (en)  
[origin: WO2009097922A1] The invention relates to a method for monitoring at least one glow plug (100) of an internal combustion engine, wherein a time-dependent variable that is characteristic of the current flowing through at least one glow plug (100) is compared to at least one time-dependent minimum (Rmin) and/or maximum threshold value (Rmax) for error detection and an error is identified if the time-dependent variable is greater and/or less than the minimum (Rmin) and/or maximum (Rmax) threshold value. The method according to the invention is characterized in that the first derivative of the time-dependent variable is compared with the first derivative of the maximum threshold value (formula I) and the second derivative of the time-dependent variable is compared with the second derivative of the maximum threshold value (formula II). An error is identified if the first derivative of the time-dependent variable is less than the first derivative of the maximum threshold value (formula I) and the second derivative of the time-dependent variable is less than the second derivative of the maximum threshold value (formula II).

IPC 8 full level  
**F02D 41/22** (2006.01); **F02P 19/02** (2006.01)

CPC (source: EP US)  
**F02P 19/027** (2013.01 - EP US); **F02P 17/12** (2013.01 - EP US)

Citation (search report)  
See references of WO 2009097922A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**DE 102008007397 A1 20090806**; CN 101932818 A 20101229; EP 2240677 A1 20101020; JP 2011511205 A 20110407;  
US 2010286895 A1 20101111; WO 2009097922 A1 20090813

DOCDB simple family (application)  
**DE 102008007397 A 20080204**; CN 200880126117 A 20081114; EP 08872082 A 20081114; EP 2008065550 W 20081114;  
JP 2010545365 A 20081114; US 81150708 A 20081114