

Title (en)  
METHOD FOR THE CORRECTION OF A FUEL QUANTITY INJECTED BY MEANS OF A FUEL INJECTION DEVICE DURING OPERATION OF AN INTERNAL COMBUSTION ENGINE

Title (de)  
VERFAHREN ZUR KORREKTUR EINER MITTELS EINER BRENNSTOFFEINSPRITZVORRICHTUNG EINGESPRITZEN BRENNSTOFFMENGE IM BETRIEB EINER BRENNKRAFTMASCHINE

Title (fr)  
PROCÉDÉ DE CORRECTION D'UNE QUANTITÉ DE CARBURANT INJECTÉE AU MOYEN D'UN DISPOSITIF D'INJECTION DE CARBURANT LORS DU FONCTIONNEMENT D'UN MOTEUR À COMBUSTION INTERNE

Publication  
**EP 2959143 A1 20151230 (DE)**

Application  
**EP 14702188 A 20140123**

Priority  
• DE 102013202038 A 20130207  
• EP 2014000171 W 20140123

Abstract (en)  
[origin: DE102013202038B3] The air heat characteristics of air heat flow (3) supplied to engine combustion chamber (1) and exhaust gas heat characteristics of delivered exhaust gas heat flow (9) are determined. The heat distribution factors which indicate a fraction of exhaust gas heat flow reduced around air heat flow related to injected fuel heat flow (5) are determined. The engine supplied fuel mass is calculated from one of air and exhaust heat characteristics, and heat distribution factors. The fuel injector is controlled as based on comparison value of supplied fuel mass and fuel mass reference value.

IPC 8 full level  
**F02D 41/24** (2006.01)

CPC (source: EP US)  
**F02D 41/1446** (2013.01 - EP US); **F02D 41/182** (2013.01 - EP US); **F02D 41/2467** (2013.01 - EP US); **F02D 41/30** (2013.01 - EP US); **F02D 41/1445** (2013.01 - EP US); **F02D 2200/0402** (2013.01 - EP US); **F02D 2200/0406** (2013.01 - EP US); **F02D 2200/0414** (2013.01 - EP US); **F02D 2200/0616** (2013.01 - EP US); **F02D 2200/701** (2013.01 - EP US)

Citation (search report)  
See references of WO 2014121896A1

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 RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**DE 102013202038 B3 20130725**; CN 104968921 A 20151007; CN 104968921 B 20180406; EP 2959143 A1 20151230; HK 1215724 A1 20160909; US 2015377167 A1 20151231; US 9982620 B2 20180529; WO 2014121896 A1 20140814

DOCDB simple family (application)  
**DE 102013202038 A 20130207**; CN 201480008051 A 20140123; EP 14702188 A 20140123; EP 2014000171 W 20140123; HK 16103600 A 20160330; US 201414766348 A 20140123