

Title (en)  
INTERNAL COMBUSTION ENGINE FUEL INJECTION PRESSURE CONTROLLER

Title (de)  
VORRICHTUNG ZUR STEUERUNG DES KRAFTSTOFFEINSPRITZDRUCKS IN EINEM VERBRENNUNGSMOTOR

Title (fr)  
UNITÉ DE COMMANDE DE LA PRESSION D'INJECTION DE CARBURANT DANS UN MOTEUR THERMIQUE

Publication  
**EP 2275661 A1 20110119 (EN)**

Application  
**EP 09746403 A 20090126**

Priority  
• JP 2009051168 W 20090126  
• JP 2008128440 A 20080515

Abstract (en)  
In a common-rail diesel engine, a fuel pressure setting map is prepared, which allocates a region of equal fuel injection pressure to an equal output region of the engine output determined from engine revolution and engine torque. Thus, it becomes possible to let changes of the heat generation rate approach an ideal state across the entire engine operation region. Moreover, a systematic procedure for controlling the fuel pressure can be implemented that is common to a number of engine types, so that it becomes possible to simplify the preparation of the fuel pressure setting map for setting the suitable fuel injection pressure in accordance with the operation state of the engine.

IPC 8 full level  
**F02D 41/38** (2006.01); **F02D 41/04** (2006.01)

CPC (source: EP)  
**F02D 41/3836** (2013.01); **F02D 41/2422** (2013.01); **F02D 2250/36** (2013.01); **F02D 2250/38** (2013.01)

Cited by  
EP2955358A3; US9840998B2

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 MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2275661 A1 20110119**; **EP 2275661 A4 20120704**; **EP 2275661 B1 20131106**; JP 4858647 B2 20120118; JP WO2009139196 A1 20110915; WO 2009139196 A1 20091119

DOCDB simple family (application)  
**EP 09746403 A 20090126**; JP 2009051168 W 20090126; JP 2010511901 A 20090126