

Title (en)

METHOD FOR OPERATING AN INJECTION SYSTEM FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUM BETRIEB EINER EINSPRITZANLAGE FÜR EINE BRENNKRAFTMASCHINE

Title (fr)

PROCÉDÉ PERMETTANT DE FAIRE FONCTIONNER UN SYSTÈME D'INJECTION POUR UN MOTEUR À COMBUSTION INTERNE

Publication

EP 2659117 A1 20131106 (DE)

Application

EP 11781529 A 20111109

Priority

- DE 102010064184 A 20101227
- EP 2011069702 W 20111109

Abstract (en)

[origin: WO2012089389A1] The invention relates to a method for operating an injection system for an internal combustion engine comprising a combustion chamber, wherein in a first method step a first inlet valve to the combustion chamber is opened, and a first injection valve injects fuel through the opened first inlet valve into the combustion chamber. Furthermore, in the first method step, a second inlet valve to the combustion chamber is opened, and a second injection valve injects fuel into the combustion chamber through the opened second inlet valve. In a second method step, additional fuel is injected by the first injection valve into the combustion chamber through the still open first inlet valve.

IPC 8 full level

F02D 41/34 (2006.01); **F02D 41/36** (2006.01); **F02M 69/04** (2006.01)

CPC (source: EP KR US)

F02D 41/30 (2013.01 - US); **F02D 41/3094** (2013.01 - EP US); **F02D 41/34** (2013.01 - KR); **F02D 41/345** (2013.01 - EP US); **F02D 41/36** (2013.01 - EP KR US); **F02M 69/04** (2013.01 - KR); **F02M 69/044** (2013.01 - EP US); **Y02T 10/40** (2013.01 - EP US)

Citation (search report)

See references of WO 2012089389A1

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

DOCDB simple family (publication)

WO 2012089389 A1 20120705; BR 112013016312 A2 20180626; BR 112013016312 B1 20201215; CN 103282630 A 20130904; CN 103282630 B 20170208; DE 102010064184 A1 20120628; DE 102010064184 B4 20230209; EP 2659117 A1 20131106; JP 2014501348 A 20140120; JP 5833138 B2 20151216; KR 101869234 B1 20180621; KR 20140004111 A 20140110; RU 2013135114 A 20150210; US 2013340719 A1 20131226

DOCDB simple family (application)

EP 2011069702 W 20111109; BR 112013016312 A 20111109; CN 201180062307 A 20111109; DE 102010064184 A 20101227; EP 11781529 A 20111109; JP 2013545130 A 20111109; KR 20137016619 A 20111109; RU 2013135114 A 20111109; US 201113997345 A 20111109