

Title (en)  
FUEL INJECTION UNIT AND SYSTEM

Title (de)  
BRENNSTOFFEINSPRITZANLAGE UND SYSTEM

Title (fr)  
UNITÉ ET SYSTÈME D'INJECTION DE CARBURANT

Publication  
**EP 2705239 A1 20140312 (EN)**

Application  
**EP 12716483 A 20120323**

Priority  
• FI 20115418 A 20110503  
• FI 2012050297 W 20120323

Abstract (en)  
[origin: WO2012150377A1] The fuel injection unit (1) for an internal combustion engine comprises a body (29), a first fuel gallery (31) and a second fuel gallery (32), a first fuel injection nozzle (3) and a second fuel injection nozzle (4), a first injector needle (7) for opening and closing flow communication between the first fuel gallery (31) and the first fuel injection nozzle (3), and a second injector needle (8) for opening and closing flow communication between the second fuel gallery (32) and the second fuel injection nozzle (4). The invention also concerns a fuel injection system.

IPC 8 full level  
**F02M 47/04** (2006.01); **F02M 45/08** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP KR)  
**F02M 45/08** (2013.01 - KR); **F02M 45/086** (2013.01 - EP); **F02M 47/04** (2013.01 - KR); **F02M 63/00** (2013.01 - KR); **F02M 63/0003** (2013.01 - EP); **F02M 63/0005** (2013.01 - EP); **F02M 63/0028** (2013.01 - EP); **F02M 2200/44** (2013.01 - EP)

Citation (search report)  
See references of WO 2012150377A1

Cited by  
US11260407B2

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 2012150377 A1 20121108**; CN 103534474 A 20140122; CN 103534474 B 20160810; EP 2705239 A1 20140312; EP 2705239 B1 20150812; FI 20115418 A0 20110503; JP 2014513241 A 20140529; JP 2016211583 A 20161215; JP 6329999 B2 20180523; KR 101930974 B1 20181219; KR 20140032412 A 20140314

DOCDB simple family (application)  
**FI 2012050297 W 20120323**; CN 201280021464 A 20120323; EP 12716483 A 20120323; FI 20115418 A 20110503; JP 2014508849 A 20120323; JP 2016144738 A 20160722; KR 20137031890 A 20120323