

Title (en)
FUEL INJECTION SYSTEM

Title (de)
KRAFTSTOFFEINSPRITZSYSTEM

Title (fr)
SYSTÈME D'INJECTION DE CARBURANT

Publication
EP 2923072 B1 20161207 (EN)

Application
EP 13799338 A 20131028

Priority
• FI 20126142 A 20121101
• FI 2013051013 W 20131028

Abstract (en)
[origin: WO2014068180A1] The fuel injection system (1) of a reciprocating engine comprises fuel injectors (12) for injecting fuel into cylinders (13) of the engine, a pump (5) for feeding fuel to at least one fuel injector (12), a feed system (6) for conducting fuel from the pump (5) to at least one fuel injector (12), and a safety valve arrangement (18) for releasing fuel pressure from the feed system (6). The safety valve arrangement (18) comprises a safety valve (11), which is arranged to open when the fuel pressure in the feed system (6) reaches a predetermined value. The safety valve arrangement (18) further comprises at least two expansion volumes (15) connected in series, and one of the expansion volumes (15) is connected to an outlet (19) of the safety valve (11).

IPC 8 full level
F02M 63/02 (2006.01); **F02M 37/00** (2006.01)

CPC (source: EP FI)
F02M 37/0029 (2013.01 - EP); **F02M 37/0052** (2013.01 - EP); **F02M 47/00** (2013.01 - FI); **F02M 55/007** (2013.01 - FI);
F02M 63/0245 (2013.01 - EP); **F02M 63/025** (2013.01 - EP); **F02M 2200/03** (2013.01 - EP)

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 2014068180 A1 20140508; CN 104781546 A 20150715; CN 104781546 B 20170503; EP 2923072 A1 20150930; EP 2923072 B1 20161207;
FI 20126142 A 20140502; KR 102032013 B1 20191108; KR 20150079772 A 20150708

DOCDB simple family (application)
FI 2013051013 W 20131028; CN 201380057018 A 20131028; EP 13799338 A 20131028; FI 20126142 A 20121101;
KR 20157013623 A 20131028