

Title (en)

Fuel pump for a direct injection system

Title (de)

Kraftstoffpumpe für ein Direkteinspritzsystem

Title (fr)

Pompe à combustible pour système à injection directe

Publication

EP 2434137 B1 20130703 (EN)

Application

EP 11182648 A 20110923

Priority

IT BO20100569 A 20100923

Abstract (en)

[origin: EP2434137A1] A fuel pump (4) for a direct injection system provided with a common rail (3); the fuel pump (4) has: a pumping chamber (11); a piston (12) which is slidingly mounted inside the pumping chamber (11); a suction channel (14) connected to the pumping chamber (11) and regulated by a suction valve (15); an outlet channel (16) connected to the pumping chamber (11) and regulated by an outlet valve (17); an exhaust channel (27) which originates from the outlet channel (16) and is regulated by a pressure relief valve (28); and a setting device (19) which acts on the suction valve (15) to keep the suction valve (15) open during a pumping phase of the piston (12) and is provided with a hydraulic actuator (21) which is connected to the exhaust channel (27) to be driven by the fuel pressure present in the exhaust channel (27) itself.

IPC 8 full level

F02M 69/02 (2006.01); **F02M 59/20** (2006.01); **F02M 59/34** (2006.01); **F02M 59/46** (2006.01); **F04B 49/24** (2006.01)

CPC (source: EP)

F02M 59/20 (2013.01); **F02M 59/34** (2013.01); **F02M 59/46** (2013.01); **F02M 59/462** (2013.01); **F02M 69/02** (2013.01); **F04B 49/24** (2013.01)

Cited by

JPWO2017203861A1; US2019301414A1; JPWO2015098351A1; JP2018523778A; US9726105B2; US9771909B2; US10094319B2; WO2017203861A1; WO2013039868A1; US9546628B2; US9316161B2; US10371109B2; US10683835B2; US10900451B2; US11459988B2; US9243596B2; WO2020112933A1

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EP 2434137 A1 20120328; **EP 2434137 B1 20130703**; CN 102434347 A 20120502; CN 102434347 B 20150408; IT 1401819 B1 20130828; IT BO20100569 A1 20120324

DOCDB simple family (application)

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