

Title (en)  
A HIGH PRESSURE FUEL PUMP

Title (de)  
HOCHDRUCKBRENNSTOFFPUMPE

Title (fr)  
POMPE À CARBURANT HAUTE PRESSION

Publication  
**EP 3150842 A1 20170405 (EN)**

Application  
**EP 16182769 A 20160804**

Priority  
IN 5202CH2015 A 20150929

Abstract (en)  
A high pressure fuel pump (10) is described. The high pressure fuel pump (10) comprises a housing (12), a cylinder head (14) located on the housing (12), and a plunger (16) located within the housing (12) and adapted to reciprocate within a bore defined within the cylinder head (14). An annular space (18) is defined between the cylinder head (14) and the housing (12), the annular space (18) adapted to receive a spring (20) therein. A seal (22) is located in the housing (12), the seal (22) held between a first static fixation (24) that is secured to the cylinder head (14) and a second static fixation (25) that is secured to a roller tappet body (40) and positioned within the annular space (18), the seal (22) prevents lubrication oil mixing with fuel within the high pressure fuel pump (10).

IPC 8 full level  
**F02M 59/06** (2006.01); **F02M 59/10** (2006.01); **F02M 59/44** (2006.01); **F04B 1/04** (2006.01)

CPC (source: CN EP)  
**F02M 59/06** (2013.01 - EP); **F02M 59/102** (2013.01 - CN EP); **F02M 59/34** (2013.01 - CN); **F02M 59/44** (2013.01 - CN);  
**F02M 59/442** (2013.01 - CN EP); **F04B 1/0448** (2013.01 - EP); **F02M 2200/8038** (2013.01 - EP); **F02M 2200/8084** (2013.01 - EP)

Citation (applicant)  
IN 2014CHE3909 A1

Citation (search report)  
• [XY] DE 102013210032 A1 20141204 - BOSCH GMBH ROBERT [DE]  
• [I] DE 102008002195 A1 20091210 - BOSCH GMBH ROBERT [DE]  
• [Y] US 2011146600 A1 20110623 - RAJAGOPALAN SENTHILKUMAR [US], et al  
• [Y] EP 2620633 A1 20130731 - DELPHI TECH HOLDING SARL [LU]

Cited by  
US11268485B2

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3150842 A1 20170405**; CN 107023427 A 20170808; CN 107023427 B 20211123

DOCDB simple family (application)  
**EP 16182769 A 20160804**; CN 201610857890 A 20160928