

Title (en)  
FUEL PUMP

Title (de)  
BRENNSTOFFPUMPE

Title (fr)  
POMPE À CARBURANT

Publication  
**EP 2399031 B1 20150805 (DE)**

Application  
**EP 09801210 A 20091222**

Priority  
• EP 2009067745 W 20091222  
• DE 102009000945 A 20090218

Abstract (en)  
[origin: WO2010094366A1] The invention relates to a fuel pump (1) serving in particular as a vacuum pump for a pump arrangement having a vacuum pump and a high-pressure pump for fuel injection systems of turbocharged compression-ignition internal combustion engines, comprising an inlet channel (15) and a connecting channel (19) on the suction side thereof. The connecting channel (19) thereby runs in a direction (22) deviating from a direction (16) of the inlet channel (15). A throttle (30) is further provided, wherein the throttle (30) connects to the inlet channel (15) in the direction (16) of the inlet channel (15) and opens into the connecting channel (19) on the side. A reliable throttle effect is thus provided, in order to allow vacuum-throttled operation of the fuel pump.

IPC 8 full level  
**F04B 23/10** (2006.01); **F02M 55/04** (2006.01)

CPC (source: EP US)  
**F02M 59/44** (2013.01 - EP); **F04B 1/0404** (2013.01 - EP); **F04B 23/103** (2013.01 - EP US); **F04B 23/12** (2013.01 - EP US);  
**F04B 53/16** (2013.01 - EP)

Designated contracting state (EPC)  
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 SE SI SK SM TR

DOCDB simple family (publication)  
**DE 102009000945 A1 20100819**; CN 102325997 A 20120118; CN 102325997 B 20150520; EP 2399031 A1 20111228;  
EP 2399031 B1 20150805; WO 2010094366 A1 20100826

DOCDB simple family (application)  
**DE 102009000945 A 20090218**; CN 200980157065 A 20091222; EP 09801210 A 20091222; EP 2009067745 W 20091222