

Title (en)
HIGH PRESSURE FUEL PUMP

Title (de)
KRAFTSTOFF-HOCHDRUCKPUMPE

Title (fr)
POMPE À CARBURANT À HAUTE PRESSION

Publication
EP 2013469 B1 20110928 (DE)

Application
EP 07728147 A 20070416

Priority
• EP 2007053682 W 20070416
• DE 102006019049 A 20060425
• DE 102007016134 A 20070329

Abstract (en)
[origin: DE102007016134A1] The pump has a high pressure discharge unit (26), and a pressure limiting valve (42) with a valve unit that is actuated by a pressure difference. A throttle arrangement (64) is provided at a high pressure side of a valve seat (54) of the pressure limiting valve. The cross section of the throttle arrangement is approximately equal to a desired maximum opening cross section of the pressure limiting valve.

IPC 8 full level
F02M 59/46 (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP US)
F02M 63/0036 (2013.01 - EP US); **F02M 63/005** (2013.01 - EP US); **F02M 63/0225** (2013.01 - EP US); **F02M 63/0245** (2013.01 - EP US); **F04B 49/035** (2013.01 - EP US); **F02M 2200/28** (2013.01 - EP US); **F02M 2200/31** (2013.01 - EP US)

Designated contracting state (EPC)
DE ES FR IT

DOCDB simple family (publication)
DE 102007016134 A1 20071108; CN 101432518 A 20090513; CN 101432518 B 20120711; EP 2013469 A1 20090114; EP 2013469 B1 20110928; EP 2333304 A1 20110615; EP 2333304 B1 20120822; EP 2336546 A1 20110622; EP 2336546 B1 20140618; ES 2370854 T3 201111223; ES 2479691 T3 20140724; JP 2009534582 A 20090924; JP 5069288 B2 20121107; US 2009252621 A1 20091008; US 8202065 B2 20120619; WO 2007122127 A1 20071101

DOCDB simple family (application)
DE 102007016134 A 20070329; CN 200780014807 A 20070416; EP 07728147 A 20070416; EP 11157492 A 20070416; EP 11157537 A 20070416; EP 2007053682 W 20070416; ES 07728147 T 20070416; ES 11157537 T 20070416; JP 2009507028 A 20070416; US 29840707 A 20070416