

Title (en)
HIGH-PRESSURE PUMP

Title (de)
HOCHDRUCKPUMPE

Title (fr)
POMPE HAUTE PRESSION

Publication
EP 2265811 B1 20110907 (DE)

Application
EP 09722786 A 20090122

Priority
• EP 2009050679 W 20090122
• DE 102008000710 A 20080317

Abstract (en)
[origin: WO2009115353A1] A high-pressure pump (1) is used especially as a fuel pump for fuel injection systems in air-compressing, self-igniting internal combustion engines. Said high-pressure pump (1) comprises a first pump subassembly (17), a second pump subassembly (18), and a drive shaft (3). The first pump subassembly (17) is located at least approximately across from the second pump subassembly (18) in relation to the drive shaft (3). At least one cam (9) for driving both the first pump subassembly (17) and the second pump subassembly (18) is provided on the drive shaft (3). Furthermore, spring elements (40, 41) are provided which are connected to a piston (23) of the first pump subassembly (17) by means of a retaining brace (45) and are connected to a piston (23) of the second pump subassembly (18). The spring elements (40, 41) are mounted in a biased manner such that the two pistons (23, 23) return without separate return springs or retracting springs during operation of the high-pressure pump (1).

IPC 8 full level
F02M 59/06 (2006.01); **F02M 59/10** (2006.01); **F02M 59/44** (2006.01); **F02M 59/48** (2006.01); **F04B 1/04** (2006.01)

CPC (source: EP)
F02M 59/06 (2013.01); **F02M 59/102** (2013.01); **F02M 59/44** (2013.01); **F02M 59/48** (2013.01); **F04B 1/0426** (2013.01); **F04B 1/0439** (2013.01); **F01L 2307/00** (2020.05)

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 TR

DOCDB simple family (publication)
DE 102008000710 A1 20090924; AT E523685 T1 20110915; CN 101978158 A 20110216; CN 101978158 B 20130327; EP 2265811 A1 20101229; EP 2265811 B1 20110907; WO 2009115353 A1 20090924

DOCDB simple family (application)
DE 102008000710 A 20080317; AT 09722786 T 20090122; CN 200980109546 A 20090122; EP 09722786 A 20090122; EP 2009050679 W 20090122