

Title (en)

Radial piston pump with improved efficiency for high pressure fuel supply in injection systems of internal combustion engines

Title (de)

Radialkolbenpumpe zur Kraftstoffhochdruckversorgung bei Einspritzsystemen von Brennkraftmaschinen mit verbessertem Wirkungsgrad

Title (fr)

Pompe a pistons radiaux à rendement amélioré pour alimentation haute pression en carburant dans des systemes d'injection de moteurs a combustion interne

Publication

EP 1375915 B1 20071226 (DE)

Application

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Priority

DE 10229396 A 20020629

Abstract (en)

[origin: EP1375915A1] The pump has three cylinders (17) set in the housing (23) 120 degrees apart. Each piston has a hemispherical inner end (59) engaging a shoe which engages on a triangular ring (31) on an eccentric shaft. Two galleries (51a,51b) connect the working ends of two cylinders. The first has a side branch leading to a magnetic control valve (15) which releases fuel back to the inlet via a reservoir. The second is connected to a relief valve (55).

IPC 8 full level

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CPC (source: EP)

F02M 55/04 (2013.01); **F02M 59/06** (2013.01); **F02M 59/102** (2013.01); **F02M 59/366** (2013.01); **F02M 59/44** (2013.01); **F04B 1/0404** (2013.01); **F04B 49/24** (2013.01)

Cited by

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