

Title (en)

Radial piston pump, in particular for Common Rail (CR) injection systems

Title (de)

Radialkolbenpumpe, insbesondere für Common Rail (CR)-Einspritzsysteme

Title (fr)

Pompe à piston radial, en particulier pour systèmes d'injection Common Rail (CR)

Publication

EP 1985853 B1 20110817 (DE)

Application

EP 08103432 A 20080408

Priority

DE 102007019261 A 20070417

Abstract (en)

[origin: EP1985853A1] The radial piston pump for common rail injection systems has an eccentric shaft (6), around which tipping segments (5) are fitted which are pivoted on plungers (4) connected to the pump pistons (3). As they tip liquid wedges are formed on which they float. The combination of cylinder (2), piston, piston rod, helical spring, leaf spring and valves (9, 10) is fitted as a single sealed unit in the pump casing (1).

IPC 8 full level

F04B 1/04 (2006.01); **F02M 59/06** (2006.01); **F02M 59/10** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP)

F02M 59/06 (2013.01); **F02M 59/102** (2013.01); **F02M 63/0225** (2013.01); **F04B 1/0426** (2013.01); **F04B 1/0439** (2013.01); **F02M 63/027** (2013.01)

Cited by

CN103089507A; CN108050041A; DE102016106232B3; WO2013010458A1; WO2011104544A3; WO2013010627A1; WO2011104544A2; US9003954B2

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