

Title (en)

High pressure fuel pump having integrated vane feed pump

Title (de)

Kraftstoffhochdruckpumpe mit integrierter Sperrflügel-Vorförderpumpe

Title (fr)

Pompe à combustible haute pression avec pompe de gavage à palettes

Publication

EP 1319831 A3 20031203 (DE)

Application

EP 02027182 A 20021205

Priority

DE 10161258 A 20011213

Abstract (en)

[origin: EP1319831A2] The fuel pump has at least one pump element (15) driven by a camshaft. A cavity (31) in the pump housing (1), which may be divided into a suction cavity (41) and a pressure cavity (43), forms a blocking vane pre-supply pump together with the cam-shaped sector (5) of the camshaft and a blocking vane, which can act as a pre-supply pump for the pump element.

IPC 1-7

F04B 1/04; **F04B 23/10**; **F04B 49/22**; **F02M 39/00**; **F02M 59/16**; **F04C 2/356**

IPC 8 full level

F02M 37/06 (2006.01); **F02M 39/00** (2006.01); **F02M 59/10** (2006.01); **F02M 59/12** (2006.01); **F02M 59/16** (2006.01); **F02M 59/46** (2006.01); **F02M 63/00** (2006.01); **F02M 63/02** (2006.01); **F04B 1/04** (2006.01); **F04B 23/10** (2006.01); **F04B 49/22** (2006.01); **F04C 11/00** (2006.01)

CPC (source: EP US)

F02M 39/005 (2013.01 - EP US); **F02M 59/102** (2013.01 - EP US); **F02M 59/46** (2013.01 - EP US); **F02M 63/00** (2013.01 - EP US); **F02M 63/0225** (2013.01 - EP US); **F04B 1/043** (2013.01 - EP US); **F04B 23/103** (2013.01 - EP US); **F04B 23/12** (2013.01 - EP US); **F04B 49/225** (2013.01 - EP US); **F04C 11/005** (2013.01 - EP US)

Citation (search report)

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DOCDB simple family (application)

EP 02027182 A 20021205; DE 10161258 A 20011213; DE 50213881 T 20021205; JP 2002361155 A 20021212; US 31512202 A 20021210