

Title (en)
High-pressure fuel supply pump

Title (de)
Hochdruck-Kraftstoffförderpumpe

Title (fr)
Pompe d'alimentation en combustible à haute pression

Publication
EP 1767771 B1 20080702 (EN)

Application
EP 06121057 A 20060921

Priority
JP 2005276162 A 20050922

Abstract (en)
[origin: EP1767771A1] A high-pressure fuel supply pump (4) has a camshaft (11), a cam (14), a housing (12, 20) and a plunger (19). The cam is provided on the camshaft such that a central axis of the cam is deviated from a central axis of the camshaft. The cam rotates with the camshaft. The housing is formed with a cam chamber (27) for accommodating the camshaft and with a fuel pressurization chamber (21) for pressurizing fuel. The plunger reciprocates due to the rotation of the cam to pressurize and to pressure-feed the fuel suctioned into the fuel pressurization chamber. The camshaft is rotatably held by bearings (13) formed in the housing at sliding faces (11a) formed on the camshaft on both sides of the cam. The fuel supply pump is formed with a lubricating passage (11 b) for introducing the fuel in the cam chamber into a space between at least one of the sliding faces and the bearing.

IPC 8 full level
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CPC (source: EP)
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Cited by
CN103047100A; CN104307830A; DE102011079781A1; EP3139029A1; US12012917B2; WO2009053178A1; WO2009121823A1; WO2009068448A1; WO2023034888A1

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