

Title (en)
Fuel supply apparatus

Title (de)
Kraftstoffzufuhrvorrichtung

Title (fr)
Appareil d'alimentation en carburant

Publication
EP 1484504 B1 20120404 (EN)

Application
EP 04013169 A 20040603

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• JP 2003159280 A 20030604
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Abstract (en)
[origin: EP1484504A1] A fuel supply pump comprising a rotary feed pump according to the present invention improves its pump performance by making smaller side clearances in an axial direction at both sides of a pump element PE. <??>Multiple through-holes (22a and 23a) passing through in an axial direction are respectively formed at top portions of cogs of the outer rotor (22) and the inner rotor (23), which form a pump element (PE) of a feed pump (3). Accordingly, pressures in the thrust direction at both axial sides of the rotors (22 and 23) can be equalized, since the side clearance formed at both axial sides of the rotors (22 and 23) are communicated with each other. As a result, since the rotors (22 and 23) can be floated, without contacting with the pump cover (19) and the pump plate (20), the abnormal wear and seizures can be suppressed, even when side clearance between the pump cover (19) and the pump element (PE) is made smaller. <IMAGE>

IPC 8 full level
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