

Title (en)
Pump assembly

Title (de)
Pumpenanordnung

Title (fr)
Ensemble de pompe

Publication
EP 2535584 A1 20121219 (EN)

Application
EP 11169953 A 20110615

Priority
EP 11169953 A 20110615

Abstract (en)
A pump assembly suitable for use in a fuel injection system is disclosed. The pump assembly comprises at least one high-pressure pumping head having an associated pumping element; a housing (124), a chamber (130) for lubricating fluid, a drive shaft bearing (126) received in the housing; and a drive shaft (120) received in the bearing (126), the drive shaft (120) being rotatable to cause reciprocal pumping movement of the or each pumping element. The drive shaft (120) is arranged to move in reciprocal linear movement in a first direction and in a second, opposite direction along a drive shaft axis (A) during rotation of the drive shaft (120) in use, and the pump assembly further comprises an auxiliary pumping chamber (160) arranged to draw lubricating fluid from the lubricating fluid chamber (130) during axial movement of the drive shaft (120) in the first direction, and to deliver lubricating fluid towards the bearing (126) during linear movement of the drive shaft (120) in the second direction.

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CPC (source: EP)
F04B 1/0404 (2013.01); **F04B 1/0426** (2013.01)

Citation (applicant)
EP 2050952 A1 20090422 - DELPHI TECH INC [US]

Citation (search report)
• [X] EP 2050952 A1 20090422 - DELPHI TECH INC [US]
• [A] EP 1184568 A2 20020306 - DELPHI TECH INC [US]
• [A] EP 0972936 A2 20000119 - LUCAS IND PLC [GB]
• [A] JP 2003232270 A 20030822 - DENSO CORP

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Designated extension state (EPC)
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