

Title (en)  
Electric oil pump

Title (de)  
Elektrische Ölpumpe

Title (fr)  
Pompe à huile électrique

Publication  
**EP 2851567 A1 20150325 (EN)**

Application  
**EP 14185584 A 20140919**

Priority  
JP 2013195803 A 20130920

Abstract (en)  
An electric oil pump (1) includes a rotor (10) driven to rotate by a motor (13) and a pump body (20) having a pump chamber (30) accommodating the rotor (10), an intake port (40) for introducing oil into the pump chamber (30) according to rotation of the rotor (10), a discharge port (50) for discharging oil from the pump chamber (30) according to rotation of the rotor (10), a first discharge passage (60) communicated to a first communication hole (52) provided in the discharge port (50) and circulating oil discharged from the discharge port (50), the first discharge passage (60) having a smaller cross sectional area than the discharge port (50), and a second discharge passage (70) communicated to a second communication hole (54) provided in the discharge port (50) separately from the first communication hole (52) and circulating oil discharged from the discharge port (50), the second discharge passage (70) having a smaller cross sectional area than the discharge port (50).

IPC 8 full level  
**F04C 2/10** (2006.01); **F04C 15/06** (2006.01)

CPC (source: EP US)  
**F04C 2/24** (2013.01 - US); **F04C 15/064** (2013.01 - EP US); **F04C 2/102** (2013.01 - EP US); **F04C 2240/30** (2013.01 - EP US); **F04C 2240/805** (2013.01 - EP US)

Citation (applicant)  
JP H07243385 A 19950919 - JIDOSHA KIKI CO

Citation (search report)  
• [IAY] US 4592706 A 19860603 - MATSUO MASASHI [JP], et al  
• [IY] DE 3913414 A1 19901025 - SCHOPF WALTER [DE]  
• [Y] JP 2012052478 A 20120315 - TOYOTA MOTOR CORP  
• [Y] GB 1223844 A 19710303 - ROLLS ROYCE, et al  
• [A] DE 102005014654 A1 20061005 - GKN DRIVELINE INT GMBH [DE]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2851567 A1 20150325; EP 2851567 B1 20210331**; CN 104456036 A 20150325; CN 104456036 B 20190319; JP 2015059562 A 20150330; JP 6083708 B2 20170222; US 2015086405 A1 20150326

DOCDB simple family (application)  
**EP 14185584 A 20140919**; CN 201410483694 A 20140919; JP 2013195803 A 20130920; US 201414491247 A 20140919