

Title (en)
Oil gear pump

Title (de)
Öl- Zahnradpumpe

Title (fr)
Pompe à huile à engrenages

Publication
EP 1686265 A3 20080618 (EN)

Application
EP 06001755 A 20060127

Priority
JP 2005025198 A 20050201

Abstract (en)
[origin: EP1686265A2] An oil pump (X, XII, XIII) includes a first control valve (4, 204, 304) including a first valve body (42, 242, 342) provided in a first valve housing (41, 241, 341) for reciprocating therein, the first valve body for controlling discharge pressure of working oil discharged from a pump main body (1), a first valve chamber (43, 243, 343) formed in the first valve housing, the first valve chamber being applied with the discharge pressure of the working oil from the pump main body, and a second valve chamber (44, 244, 344) formed in the first valve housing, the second valve chamber being supplied with the working oil, and a second control valve (7, 207, 307) activated on the basis of degree of the temperature of the working oil, the second control valve for controlling oil pressure of the working oil flowed into the second valve chamber.

IPC 8 full level
F04C 14/26 (2006.01); **F01M 1/16** (2006.01); **F04C 14/24** (2006.01); **F04C 2/10** (2006.01)

CPC (source: EP US)
F01M 1/16 (2013.01 - EP US); **F04C 2/102** (2013.01 - EP US); **F04C 14/24** (2013.01 - EP US); **F04C 2270/18** (2013.01 - EP US); **F04C 2270/58** (2013.01 - EP US); **F05C 2251/042** (2013.01 - EP US); **F05C 2251/08** (2013.01 - EP US)

Citation (search report)
• [XY] DE 10141786 A1 20030320 - PORSCHE AG [DE]
• [Y] DE 10051780 A1 20020425 - DAIMLER CHRYSLER AG [DE]
• [AD] JP H08114186 A 19960507 - AISIN SEIKI

Cited by
EP2213879A1; EP2628954A4; EP1921317A3; EP2275682A1; US8328531B2; US8827659B2; US7810467B2; WO2021028427A1; WO2009095011A3

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1686265 A2 20060802; **EP 1686265 A3 20080618**; JP 2006214286 A 20060817; US 2006171818 A1 20060803

DOCDB simple family (application)
EP 06001755 A 20060127; JP 2005025198 A 20050201; US 33688906 A 20060123