

Title (en)
Oil supply device for engine

Title (de)
Ölzuführungsvorrichtung für Brennkraftmaschine

Title (fr)
Dispositif d'alimentation en huile pour moteur

Publication
EP 1640571 B1 20070822 (EN)

Application
EP 05020471 A 20050920

Priority
JP 2004281908 A 20040928

Abstract (en)
[origin: EP1640571A1] An oil supply device characterized by a first oil suction passage (18), a second oil suction passage (19), a first pump (1) for sucking and discharging oil from the first oil suction passage, a second pump (2) arranged in series with the first pump, the second pump for sucking and discharging oil from at least one of the first pump and the second oil suction passage, a check valve (13) for blocking oil circulation from the second pump and the second oil suction passage to the first pump, a first oil passage (5) to a lubrication system portion, a second oil passage (6) to a cooling system portion, a third oil passage (7) for establishing communication between the first oil passage and the second oil passage, and a supply volume control means (21) for varying oil supply volume to the lubrication system portion, to the cooling system portion, or to the lubrication system portion and the cooling system portion in accordance with a change in at least one of an engine oil temperature, an engine rotation speed, and an engine load.

IPC 8 full level
F01M 1/02 (2006.01); **F01M 1/12** (2006.01)

CPC (source: EP US)
F01M 1/02 (2013.01 - EP US); **F01M 1/12** (2013.01 - EP US); **F01M 1/16** (2013.01 - EP US); **F01M 5/002** (2013.01 - EP US);
F01M 2001/123 (2013.01 - EP US)

Cited by
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CN107208625A; EP3240957A4; DE102008018322A1; EP2626525A1; CN103244302A; US11603778B2; WO2020048586A1; WO2008096184A3;
USD870156S; USD870157S; US10352321B2; US11421682B2; US10087992B2; US10393182B2; US10677244B2; US11204030B2;
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