

Title (en)

Flow system for oil circuit of a combustion engine

Title (de)

Strömungseinrichtung innerhalb eines Ölkreislaufes eines Verbrennungsmotors

Title (fr)

Dispositif pour le circuit d'huile d'un moteur à combustion interne

Publication

EP 1752627 A3 20090617 (DE)

Application

EP 06117118 A 20060713

Priority

DE 102005035533 A 20050729

Abstract (en)

[origin: EP1752627A2] The mechanism has a heat exchanger and a switching valve (1) with an expansion unit (2). The heat exchange and the valve are maintained in switching positions during which oil flows in a lower temperature region based on pressure drop of oil flow in the heat exchanger. The oil flow exceeds an upper threshold with a specific volume flow percentage and falls below the threshold with a specific flow percentage during the drop. An independent claim is also included for a three-path switching valve with a ring separator.

IPC 8 full level

F01M 1/16 (2006.01)

CPC (source: EP)

F01M 5/007 (2013.01)

Citation (search report)

- [X] DE 3719843 A1 19881222 - MESSERSCHMITT BOELKOW BLOHM [DE]
- [X] US 4512300 A 19850423 - DEVORE JAMES R [US], et al
- [A] JP S5960013 A 19840405 - HINO MOTORS LTD

Cited by

ITUB20160126A1; CN108699928A; WO2016169809A1; US10914207B2; US11365655B2; WO2017134572A1; WO2017134571A1

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 RS

DOCDB simple family (publication)

EP 1752627 A2 20070214; EP 1752627 A3 20090617; EP 1752627 B1 20110504; DE 102005035533 A1 20070208;
DE 502006009426 D1 20110616

DOCDB simple family (application)

EP 06117118 A 20060713; DE 102005035533 A 20050729; DE 502006009426 T 20060713