

Title (en)

Oil pump pressure control device

Title (de)

Vorrichtung zum Steuern des Ölpumpendrucks

Title (fr)

Dispositif de contrôle de la pression dans une pompe à huile

Publication

EP 1961961 A3 20091216 (EN)

Application

EP 07122748 A 20071210

Priority

JP 2007039135 A 20070220

Abstract (en)

[origin: EP1961961A2] An oil pump pressure control device is configured from a first discharge passage (11) to an engine (E), a first return passage (12) that returns to an intake side of an outer circumferential side rotor, a second discharge passage (13) to the engine, a second return passage (14) that returns to an intake side of an inner circumferential side rotor, and a pressure control valve (C) whose valve main body is provided between a discharge port from the inner circumferential side rotor and the first discharge passage. The first (11) and second discharge passage (14) are coupled, and a flow passage control is executed in each of: a low revolution range in a state in which only the first and the second discharge passage are open; an intermediate revolution range in a state in which the first and second discharge passage are open and a first intake side of the return passage is closed while a second intake side of the return passage is open; and a high revolution range in a state in which the second discharge passage is closed while the first discharge passage and the return passage are open.

IPC 8 full level

F04C 2/10 (2006.01); **F04C 14/06** (2006.01); **F04C 14/26** (2006.01)

CPC (source: EP US)

F04C 14/065 (2013.01 - EP US); **F04C 14/26** (2013.01 - EP US); **F04C 2/10** (2013.01 - EP US)

Citation (search report)

- [AD] JP 2005140022 A 20050602 - AISIN SEIKI & EP 1529958 A2 20050511 - AISIN SEIKI [JP]
- [A] EP 0811765 A2 19971210 - BAYERISCHE MOTOREN WERKE AG [DE]
- [A] US 4502845 A 19850305 - CHANA HOWARD E [US]

Cited by

EP2600004A3

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1961961 A2 20080827; **EP 1961961 A3 20091216**; **EP 1961961 B1 20110126**; CN 101251108 A 20080827; CN 101251108 B 20110914; DE 602007012206 D1 20110310; ES 2358286 T3 20110509; JP 2008202488 A 20080904; JP 4521005 B2 20100811; US 2008253904 A1 20081016

DOCDB simple family (application)

EP 07122748 A 20071210; CN 200810009259 A 20080131; DE 602007012206 T 20071210; ES 07122748 T 20071210; JP 2007039135 A 20070220; US 73507 A 20071217