

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 A2 20080827 (EN)

Application

EP 07122748 A 20071210

Priority

JP 2007039135 A 20070220

Abstract (en)

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 (applicant)

- JP 2002070756 A 20020308 - TOYOTA MOTOR CORP, et al
- EP 0811765 A2 19971210 - BAYERISCHE MOTOREN WERKE AG [DE]

Cited by

EP2600004A3

Designated contracting state (EPC)

DE ES FR GB IT

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)

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