

Title (en)  
Oil Passage Structure

Title (de)  
Öldurchgangsstruktur

Title (fr)  
Structure de passage d'huile

Publication  
**EP 1905970 A1 20080402 (EN)**

Application  
**EP 07113325 A 20070727**

Priority  
• JP 2006267118 A 20060929  
• JP 2006267116 A 20060929

Abstract (en)  
To provide oil passage structure where a manhour and a cost for assembly is reduced, securing the sealing performance of each oil passage on a division plane of a crankcase and each oil passage can be easily made to communicate, avoiding the large-sizing of an engine. An oil outflow passage 72 and a main oil passage 76 respectively extended across the division plane of the crankcase substantially in parallel with a crankshaft are provided, a communicating groove 75 that connects the oil outflow passage 72 and the main oil gallery 76 is formed on the division plane of at least one divided body (a left case half 21a) of the crankcase, and an endless sealing member 78 that integrally surrounds the peripheries of the followings is provided to the oil outflow passage 72, the main oil gallery 76 and the communicating groove 75 each half of which is mutually opposite on the division plane.

IPC 8 full level  
**F01M 11/02** (2006.01)

CPC (source: EP KR)  
**F01M 1/06** (2013.01 - KR); **F01M 11/02** (2013.01 - EP KR); **F01M 11/03** (2013.01 - KR)

Citation (search report)  
• [A] US 6536400 B1 20030325 - INUMARU NOBUAKI [JP], et al  
• [A] US 5975041 A 19991102 - NARITA SATORU [JP], et al  
• [A] US 5950763 A 19990914 - OHTA KATSUYA [JP]  
• [A] US 5857442 A 19990112 - SUMI HIROMI [JP]  
• [A] US 6755173 B1 20040629 - YOSHIDA HIROYUKI [JP], et al

Cited by  
CN101813015A; EP3543488A4; EP3889018A4; EP3889017A4

Designated contracting state (EPC)  
DE ES FR IT

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
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KR 100856644 B1 20080903; KR 20080029804 A 20080403; TW 200819615 A 20080501; TW I334461 B 20101211

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**EP 07113325 A 20070727**; DE 602007003288 T 20070727; ES 07113325 T 20070727; KR 20070093127 A 20070913; TW 96130688 A 20070820