

Title (en)  
WATER COOLED SOHC ENGINE

Title (de)  
WASSERGEKÜHLTER SOHC-MOTOR

Title (fr)  
MOTEUR SOHC REFROIDI À L'EAU

Publication  
**EP 3361065 A1 20180815 (EN)**

Application  
**EP 17207182 A 20171214**

Priority  
JP 2017024375 A 20170213

Abstract (en)  
A water cooled SOHC engine includes a water jacket 30 provided in a cylinder head 6. The water jacket 30 includes an annular outer circumferential flow path 34 which is disposed around a plurality of intake outlets 14o and a plurality of exhaust inlets 16i, a center flow path 39 which is disposed inside the outer circumferential flow path 34 and which overlaps a spark plug 24, an upstream connection flow path 38 which extends from the outer circumferential flow path 34 to the center flow path 39, and a downstream connection flow path 40 which has a larger sectional area than the sectional area of the upstream connection flow path 38 and which extends from the center flow path 39 to the outer circumferential flow path 34.

IPC 8 full level  
**F01P 3/14** (2006.01); **F01P 3/02** (2006.01); **F01P 3/16** (2006.01); **F02F 1/24** (2006.01); **F02F 1/40** (2006.01)

CPC (source: EP)  
**F01P 3/14** (2013.01); **F01P 3/16** (2013.01); **F02F 1/40** (2013.01); **F01P 2003/028** (2013.01); **F02F 1/242** (2013.01); **F02F 1/38** (2013.01)

Citation (applicant)  
JP 4514637 B2 20100728

Citation (search report)  
• [XDA] JP 4514637 B2 20100728  
• [A] FR 2882791 A1 20060908 - RENAULT SAS [FR]  
• [A] DE 102007062347 A1 20090625 - PORSCHE AG [DE]  
• [A] EP 2826975 A1 20150121 - YAMAHA MOTOR CO LTD [JP]  
• [A] WO 2005093242 A1 20051006 - PORSCHE AG [DE], et al  
• [A] WO 2004022961 A1 20040318 - PORSCHE AG [DE], et al

Cited by  
CN113236434A; EP3674538A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3361065 A1 20180815**; **EP 3361065 B1 20191127**; BR 102018002598 A2 20181030; JP 2018131921 A 20180823;  
TW 201833429 A 20180916; TW I655359 B 20190401

DOCDB simple family (application)  
**EP 17207182 A 20171214**; BR 102018002598 A 20180207; JP 2017024375 A 20170213; TW 107102172 A 20180122