

Title (en)  
Internal combustion engine

Title (de)  
Brennkraftmaschine

Title (fr)  
Moteur à combustion interne

Publication  
**EP 1757795 A1 20070228 (DE)**

Application  
**EP 06017095 A 20060817**

Priority  
DE 102005040637 A 20050827

Abstract (en)  
The engine has a crankcase (1) that is provided with a cylinder, and a piston that is movable in the cylinder. The piston is hinged at a crankshaft that is supported in the crankcase. A cooling system in the form of oil cooler (12) is integrated in the engine, and a lubrication system includes an oil pump. The cooling system has a lower cylinder head ring cooling chamber directly cooperating with a cylinder crankcase chamber, and a cylinder head cooling chamber. The cooling system is fed either with water or oil.

IPC 8 full level  
**F01P 3/02** (2006.01); **F02F 1/10** (2006.01)

CPC (source: EP)  
**F01P 3/02** (2013.01); **F02F 1/10** (2013.01); **F01P 2003/006** (2013.01); **F01P 2003/028** (2013.01); **F02B 69/00** (2013.01)

Citation (search report)

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- [X] DE 3629671 A1 19880310 - KLOECKNER HUMBOLDT DEUTZ AG [DE]
- [A] WO 8904916 A1 19890601 - ELSBETT L [DE], et al
- [A] EP 0814243 A1 19971229 - WAERTSILAE NSD SCHWEIZ AG [CH]
- [A] DE 3810852 A1 19891012 - KLOECKNER HUMBOLDT DEUTZ AG [DE]

Citation (examination)

- EP 0356227 A2 19900228 - HONDA MOTOR CO LTD [JP]
- EP 0870918 A1 19981014 - YAMAHA MOTOR CO LTD [JP]

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FR3053737A1; WO2018007703A1

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 YU

DOCDB simple family (publication)  
**EP 1757795 A1 20070228**; DE 102005040637 A1 20070301

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**EP 06017095 A 20060817**; DE 102005040637 A 20050827