

Title (en)  
Cylinder head for a combustion engine

Title (de)  
Zylinderkopf für eine Brennkraftmaschine

Title (fr)  
Tête de cylindre pour un moteur à combustion interne

Publication  
**EP 2003321 A3 20090610 (DE)**

Application  
**EP 08104396 A 20080613**

Priority  
• EP 07110193 A 20070613  
• EP 08104396 A 20080613

Abstract (en)  
[origin: EP2003320A1] The head has connections (7), which are provided between a lower coolant casing and an upper coolant casing (2b) at a distance to exhaust gas conduits in an external wall of the cylinder head. The connection is arranged adjacent to an area, in which the exhaust gas conduits brought together at entire exhaust gas conduit. Cylinders exhibit respective outlet openings for conducting exhaust gas from the cylinder. The connections are arranged at opposite sides of the entire exhaust gas conduit.

IPC 8 full level  
**F02F 1/24** (2006.01); **F01N 13/10** (2010.01); **F02F 1/40** (2006.01)

CPC (source: EP US)  
**F02F 1/243** (2013.01 - EP US); **F02F 1/40** (2013.01 - EP US); **F02F 1/4264** (2013.01 - EP US)

Citation (search report)  
• [X] US 4993227 A 19910219 - NAGURA TAKAHIRO [JP], et al  
• [X] JP S63314320 A 19881222 - YAMAHA MOTOR CO LTD  
• [AD] EP 1722090 A2 20061115 - HONDA MOTOR CO LTD [JP]

Cited by  
CN108019290A

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

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**EP 2003320 A1 20081217; EP 2003320 B1 20171011**; EP 2003321 A2 20081217; EP 2003321 A3 20090610; JP 2008309158 A 20081225; US 2008308050 A1 20081218; US 8146543 B2 20120403

DOCDB simple family (application)  
**EP 07110193 A 20070613**; EP 08104396 A 20080613; JP 2008155398 A 20080613; US 13890208 A 20080613