

Title (en)
Piston cooling structure

Title (de)
Kolbenkühlstruktur

Title (fr)
Structure de refroidissement à piston

Publication
EP 2133533 A1 20091216 (EN)

Application
EP 09002225 A 20090217

Priority
• JP 2008154465 A 20080612
• JP 2008320118 A 20081216

Abstract (en)
A piston cooling structure includes a cylinder block (1) and a cooling medium supplying device (20). The cylinder block (1) includes a cylinder bore (1a) and an inter-bore wall (2) at least partially forming the cylinder bore (1a). The cooling medium supplying device (20) is mounted to the inter-bore wall (2) to supply a cooling medium into the cylinder bore (1a). The inter-bore wall (2) has a bearing support portion (2b), a through opening (15) and an internal passageway (16). The through opening (15) communicates with the cylinder bore (1a) and extending in a direction parallel a rotational axis of the crankshaft (6). The internal passageway (16) extends from the bearing support portion (2b) to the through opening (15) in a direction parallel to a center reciprocation axis of the cylinder bore (1a). The cooling medium supplying device (20) is fluidly connected to the internal passageway (16) with an injection part (20a and 20b) being arranged with respect to the through opening (15) to supply the cooling medium from the injection part (20a and 20b) to the cylinder bore (1a).

IPC 8 full level
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CPC (source: EP)
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Citation (applicant)
JP H0614005 U 19940222

Citation (search report)
• [X] JP S63147910 A 19880620 - YAMAHA MOTOR CO LTD
• [XY] US 5533472 A 19960709 - SANDS RICHARD H [US], et al
• [Y] EP 1288460 A1 20030305 - HONDA MOTOR CO LTD [JP]
• [A] US 4010718 A 19770308 - STEWART WILLIAM FINDLAY

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