

Title (en)
CYLINDER HEAD

Publication
EP 0230017 B1 19910828 (DE)

Application
EP 86117696 A 19861218

Priority
DE 3545333 A 19851220

Abstract (en)
[origin: US4781158A] An air-cooled block cylinder head adapted for mounting on an open-deck cylinder casing of an internal combustion engine. In order to maintain a tight seal of the cylinder head to the cylinder casing, the combustion chamber floor of the cylinder head is designed to be deflected in a manner that does not adversely affect the sealing of the cylinder head to the cylinder casing. This is achieved by designing the cooling chamber side of the cylinder head floor with a gradually changing floor wall thickness in the area directly above the cylinder combustion chamber. In the preferred designs, the combustion chamber floor is designed to be concave or convex. The cylinder head also includes features for effectively cooling the combustion chamber floor and for isolating the exhaust conduit.

IPC 1-7
F02F 1/32; **F02F 1/38**; **F02F 1/42**

IPC 8 full level
F02F 1/36 (2006.01); **F02F 1/32** (2006.01); **F02F 1/38** (2006.01); **F02F 1/42** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP US)
F02F 1/32 (2013.01 - EP US); **F02F 1/4285** (2013.01 - EP US); **F02B 3/06** (2013.01 - EP US); **F02B 2275/14** (2013.01 - EP US); **F02F 2001/104** (2013.01 - EP US)

Cited by
DE102005040637A1; DE10344110A1

Designated contracting state (EPC)
AT DE ES FR GB IT

DOCDB simple family (publication)
EP 0230017 A2 19870729; **EP 0230017 A3 19881005**; **EP 0230017 B1 19910828**; AT E66722 T1 19910915; DE 3545333 A1 19870702; DE 3545333 C2 19880601; DE 3681147 D1 19911002; ES 2023810 B3 19920216; JP S62157264 A 19870713; US 4781158 A 19881101

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