

Title (en)
Cylinder head for an internal combustion engine

Title (de)
Zylinderkopf und Brennkraftmaschine

Title (fr)
Culasse pour un moteur à combustion interne

Publication
EP 1126152 A3 20020605 (DE)

Application
EP 01102934 A 20010208

Priority
US 50502200 A 20000216

Abstract (en)
[origin: CA2327642A1] A cylinder head for an engine having a two-plane water jacket in which a lower chamber at one plane through the head cools the fire deck of each cylinder and a cross-flow passage for the coolant is spaced above the lower chambers in a second plane through the head directs coolant to an outlet. The two planes of the water jacket are connected by an annular passage surrounding the injector nozzle sleeve and has machined surfaces whereby the size of the flow channel and thus the coolant flow between the two planes is better controlled to enable more even cooling of the fire deck resulting in less variability in fire deck temperature from one cylinder to another. The lower chambers cooling the fire deck are separate for each cylinder to prevent heated coolant from one cylinder flowing to the next cylinder fire deck.

IPC 1-7
F02F 1/42; **F02F 1/40**

IPC 8 full level
F02F 1/38 (2006.01); **F02F 1/40** (2006.01); **F02F 1/42** (2006.01); **F02B 3/06** (2006.01); **F02F 1/24** (2006.01)

CPC (source: EP US)
F02F 1/38 (2013.01 - EP US); **F02F 1/40** (2013.01 - EP US); **F02F 1/4214** (2013.01 - EP US); **F02B 3/06** (2013.01 - EP US); **F02F 2001/247** (2013.01 - EP US)

Citation (search report)

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- [X] US 4083333 A 19780411 - RUDERT WOLFGANG, et al
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