

Title (en)

CYLINDER HEAD FOR A WATER-COOLED INTERNAL COMBUSTION PISTON ENGINE HAVING INNER REINFORCEMENT

Title (de)

ZYLINDERKOPF FUER EINE WASSERGEKUEHLTE KOLBENBRENNKRAFTMASCHINE MIT INNENVERSTEIFUNG

Title (fr)

TETE DE CYLINDRE A RENFORT INTERIEUR DESTINEE A UN MOTEUR A COMBUSTION INTERNE A PISTONS REFROIDI PAR EAU

Publication

EP 1554483 B1 20110406 (DE)

Application

EP 03750517 A 20030911

Priority

- DE 20216452 U 20021025
- EP 0310072 W 20030911

Abstract (en)

[origin: US2005229875A1] A cylinder head for a water-cooled, multi-cylinder piston internal combustion engine comprises a lower wall and an upper wall enclosing a cavity. A well extends into the cavity for receiving a fuel injector and/or an ignition device. An intake port and/or an exhaust port extends through the cavity. A cooling-water carrying region comprises areas of the cavity surrounding the well, intake port, and exhaust port. Portions of the cooling-water carrying region are provided with an intermediate web for reinforcing the cylinder head.

IPC 8 full level

F02F 1/42 (2006.01); **F02F 1/40** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP US)

F02F 1/40 (2013.01 - EP US); **F02F 1/4214** (2013.01 - EP US); **F02B 3/06** (2013.01 - EP US)

Cited by

DE102022116178A1; DE102023001162A1

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DOCDB simple family (publication)

US 2005229875 A1 20051020; US 7100545 B2 20060905; AT E504730 T1 20110415; AU 2003270170 A1 20040513; CN 1697921 A 20051116; DE 20216452 U1 20021219; DE 50313604 D1 20110519; EP 1554483 A1 20050720; EP 1554483 B1 20110406; WO 2004038206 A1 20040506

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US 11330905 A 20050425; AT 03750517 T 20030911; AU 2003270170 A 20030911; CN 03824547 A 20030911; DE 20216452 U 20021025; DE 50313604 T 20030911; EP 0310072 W 20030911; EP 03750517 A 20030911