

Title (en)  
WATER-COOLED CYLINDER HEAD FOR A MULTI-CYLINDER INTERNAL COMBUSTION ENGINE

Title (de)  
WASSERGEK HLTET ZYLINDERKOPF FÜR EINE MEHRZYLINDRIGE BR ENNKRAFTMASCHINE

Title (fr)  
CULASSE REFROIDIE PAR EAU POUR UN MOTEUR A COMBUSTION INTERNE MULTICYLINDRE

Publication  
**EP 1733133 A1 20061220 (DE)**

Application  
**EP 05726240 A 20050315**

Priority  
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• DE 102004015135 A 20040327

Abstract (en)  
[origin: WO2005093243A1] The invention relates to a water-cooled cylinder head for a multi-cylinder internal combustion engine, comprising a cylinder head housing (10) provided with gas exchange valves, boreholes (48, 49, 50) for receiving cylinder head screws, valve shaft guides (24 to 46) for the inlet and outlet valves controlling the gas exchange channels, combustion chamber spherical caps (64, 66, 68) that are defined by a water jacket (70, 72, 74) on the side opposing the combustion chamber, and respectively one spark plug dome having an opening (18, 20, 22) leading to the combustion chamber of the respective cylinder. According to the invention, in order to rigidify the cylinder head housing (10) and/or to support the combustion chamber spherical caps (64, 66, 68), a rib structure (76, 80, 82) is integrated into the cylinder head housing.

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