

Title (en)  
CYLINDER HEAD FOR AN INTERNAL COMBUSTION ENGINE

Title (de)  
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Title (fr)  
CULASSE DESTINÉE À UN MOTEUR A COMBUSTION INTERNE

Publication  
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Application  
**EP 16736760 A 20160504**

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Abstract (en)  
[origin: WO2016176710A1] The invention relates to a cylinder head (4) for an internal combustion engine having liquid cooling, comprising at least two outlet valves for controlling outlet openings (14) and at least one inlet valve for controlling at least one inlet opening (15) per cylinder (2), having at least one cooling jacket (3) through which coolant flows. An outlet valve bridge (7) is arranged between two adjacent outlet valves and an inlet/outlet valve bridge (8) is arranged in each case between at least one outlet valve and an adjacent inlet valve. A first cooling channel (18) is arranged in the region of at least one outlet valve bridge (7), and a second cooling channel (19) is arranged in the region of at least one inlet/outlet valve bridge (8), and the first and second cooling channels (18, 19) are fluidically connected to one other in a central cooling region (20) of the cylinder (2) with one another. According to the invention, in order to improve the cooling in the region of the inlet/outlet valve bridges and in the region of the outlet valve guides, at least one second cooling channel (19) has a flow dividing arrangement (21) which sub-divides the second cooling channel (19) into a first part-channel (19a) and a second part-channel (19b), wherein preferably the first part-channel (19a) is arranged in the region of an outlet valve guide (14a) and the second part-channel (19b) is arranged in the region of an outlet valve seat (14b) of the adjacent outlet valve.

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