Title (en)

PROCESS FOR PRODUCING CYLINDER HEADS FOR INTERNAL COMBUSTION ENGINES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ZYLINDERKÖPFEN FÜR VERBRENNUNGSMOTOREN

Title (fr)

PROCEDE DE FABRICATION DE CULASSES POUR MOTEURS A COMBUSTION INTERNE

Publication

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Application

EP 97916394 A 19970326

Priority

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Abstract (en)

[origin: US6112803A] PCT No. PCT/EP97/01540 Sec. 371 Date Sep. 28, 1998 Sec. 102(e) Date Sep. 28, 1998 PCT Filed Mar. 26, 1997 PCT Pub. No. WO97/37107 PCT Pub. Date Oct. 9, 1997The cylinder head for internal combustion engines is produced by pouring liquid cylinder head material, especially aluminum, into a cylinder head mold containing a mold core having stepped sections in the region of the valve seat ring and the valve guide. The valve seat rings and valve guides are produced from a conventional material based on steel or copper by pressing and sintering in such a way that they have an open pore volume of 5 to 15%, a valve seat and/or a valve guide are laid on the stepped sections of the mold core, whereafter liquid aluminum is poured into the preheated mold and the mold core is removed in the conventional way after the molten aluminum has solidified.

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F01L 3/08; F01L 3/22

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