

Title (en)
UNMACHINED CYLINDER HEAD CASTING, CAST CYLINDER HEAD FOR DIESEL INTERNAL COMBUSTION ENGINES, AND PROCESS FOR PRODUCING AN UNMACHINED CYLINDER HEAD CASTING

Title (de)
ZYLINDERKOPF-GUSSROHTEIL, GEGOSSENER ZYLINDERKOPF FÜR DIESEL-VERBRENNUNGSMOTOREN UND VERFAHREN ZUR HERSTELLUNG EINES ZYLINDERKOPF-GUSSROHTEILS

Title (fr)
EBAUCHE DE FONDERIE DE CULASSE, CULASSE COULEE POUR MOTEURS DIESEL ET PROCEDE DE PRODUCTION D'UNE EBAUCHE DE FONDERIE DE CULASSE

Publication
EP 1912754 B1 20091209 (DE)

Application
EP 06792513 A 20060718

Priority
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• DE 102005037735 A 20050805

Abstract (en)
[origin: US8127737B2] An unfinished cylinder head casting for producing a cylinder head for internal combustion engines powered with diesel fuel includes a sealing surface, intended for mounting in a finished state on a corresponding sealing surface of an engine block, and designed on a sealing surface section of the unfinished cylinder head casting. A thickness of the sealing surface section in a casting state exhibits a machining allowance in relation to its set thickness, obtained after a material-removing finishing of the sealing surface. The sealing surface includes a combustion chamber region, associated with a combustion chamber formed in the engine block. In the case of such a cylinder head, an optimum load-bearing capacity is achieved in a simple manner in that a combustion chamber region sealing surface section machining allowance amounts to a maximum of 15% of the machining allowance of the sealing surface section in the remaining region of the sealing surface.

IPC 8 full level
B22D 15/02 (2006.01); **F02F 1/38** (2006.01)

CPC (source: EP KR US)
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