

Title (en)  
INTERNAL COMBUSTION ENGINE CYLINDER HEAD COMPRISING A REINFORCING ELEMENT

Title (de)  
ZYLINDERKOPF EINES VERBRENNUNGSMOTORS MIT VERSTÄRKUNGSELEMENT

Title (fr)  
CULASSE POUR MOTEUR A COMBUSTION INTERNE COMPORTANT UN ELEMENT DE RENFORT

Publication  
**EP 2041417 A1 20090401 (FR)**

Application  
**EP 07803942 A 20070626**

Priority  
• FR 2007051523 W 20070626  
• FR 0606526 A 20060718

Abstract (en)  
[origin: WO2008009834A1] Internal combustion engine cylinder head (1) made of aluminium alloy, characterized in that it comprises a perforated element (2) running close to the face (3) of the cylinder head that is adjacent to the combustion chamber, this perforated element (2) being completely encased by the aluminium alloy of the cylinder head and made of a material that has a better bending strength than the said aluminium alloy.

IPC 8 full level  
**F02F 1/38** (2006.01); **B22D 19/00** (2006.01)

CPC (source: EP)  
**B22D 19/0009** (2013.01); **B22D 19/02** (2013.01); **F02F 1/24** (2013.01)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**WO 2008009834 A1 20080124**; AT E453044 T1 20100115; DE 602007003985 D1 20100204; EP 2041417 A1 20090401; EP 2041417 B1 20091223; FR 2904052 A1 20080125; FR 2904052 B1 20121019; JP 2009543979 A 20091210

DOCDB simple family (application)  
**FR 2007051523 W 20070626**; AT 07803942 T 20070626; DE 602007003985 T 20070626; EP 07803942 A 20070626; FR 0606526 A 20060718; JP 2009520017 A 20070626