

Title (en)

CYLINDER HEAD FOR AN INTERNAL COMBUSTION ENGINE

Publication

EP 0296320 A3 19891129 (DE)

Application

EP 88105551 A 19880407

Priority

DE 3721029 A 19870625

Abstract (en)

[origin: US4854275A] Cylinder head for a combustion engine which has at least one web insert embedded in the cylinder head in the bridge region between the inlet and outlet valves. In order to prevent the occurrence of heat cracks at the root of the expansion joint receiving the web insert upon cooling of the cylinder head after its casting, the web insert has at least one opening, window or lateral cutout. Through this opening, window or cutout, the material of the cylinder head located on both sides of the web insert is directly connected together.

IPC 1-7

F02F 1/30

IPC 8 full level

F02F 1/30 (2006.01)

CPC (source: EP US)

F02F 1/30 (2013.01 - EP US)

Citation (search report)

- [A] DE 2904940 A1 19800821 - KLOECKNER HUMBOLDT DEUTZ AG
- [A] DE 1294093 B 19690430 - KLOECKNER HUMBOLDT DEUTZ AG

Cited by

WO2017082846A1

Designated contracting state (EPC)

AT DE ES FR GB IT

DOCDB simple family (publication)

EP 0296320 A2 19881228; EP 0296320 A3 19891129; EP 0296320 B1 19920102; AT E71187 T1 19920115; DE 3721029 A1 19890105; DE 3721029 C2 19890921; DE 3867331 D1 19920213; ES 2027721 T3 19920616; US 4854275 A 19890808

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EP 88105551 A 19880407; AT 88105551 T 19880407; DE 3721029 A 19870625; DE 3867331 T 19880407; ES 88105551 T 19880407; US 20905188 A 19880620