

Title (en)

Cylinder head for a direct injection internal combustion engine with one bracket for two injection valves

Title (de)

Zylinderkopf für eine direkteinspritzende Brennkraftmaschine mit einem Niederhalter für zwei Einspritzventile

Title (fr)

Culasse pour un moteur à combustion interne à injection directe avec un griffe pour deux soupapes d'injection

Publication

EP 1698778 B1 20080507 (DE)

Application

EP 05027774 A 20051219

Priority

DE 102005009118 A 20050301

Abstract (en)

[origin: EP1698778A1] The head has a fastening unit designed as a holding-down clamp (8) securing two fuel injection valves to the head, respectively. The clamp is fastened to the head on a central attachment point. Retainers for fuel supply nozzles of the injection valves are provided at two ends of the clamp. The nozzles are flexibly and radially supported in the retainers. The clamp is implemented as an aluminum cast part.

IPC 8 full level

F02M 61/14 (2006.01)

CPC (source: EP US)

F02M 61/14 (2013.01 - EP US)

Designated contracting state (EPC)

AT DE FR GB IT SE

DOCDB simple family (publication)

EP 1698778 A1 20060906; EP 1698778 B1 20080507; AT E394593 T1 20080515; DE 102005009118 A1 20060914; DE 502005003975 D1 20080619; JP 2006242182 A 20060914; JP 4295771 B2 20090715; US 2006196478 A1 20060907; US 7412970 B2 20080819

DOCDB simple family (application)

EP 05027774 A 20051219; AT 05027774 T 20051219; DE 102005009118 A 20050301; DE 502005003975 T 20051219; JP 2006044668 A 20060222; US 36332106 A 20060228