Title (en)

Cylinder head for an internal combustion engine with controlled valve motion

Title (de)

Zylinderkopf für eine ventilgesteuerte Brennkraftmaschine

Title (fr)

Culasse pour un moteur à combustion interne avec soupapes commandées

Publication

EP 0627547 B1 19970806 (DE)

Application

EP 94108022 A 19940525

Priority

DE 4318462 A 19930603

Abstract (en)

[origin: EP0627547A1] The invention relates to a cylinder head in which that area (5) of one or more inlet and exhaust ports (3) close to the orifice is formed by an insert (6"), which extends coaxially with the inlet and exhaust valve (7). That area (5) of the inlet and exhaust port (3) close to the orifice can thereby be manufactured very accurately but nevertheless cost-effectively, for example by sintering of the insert (6"). The insert (6") also forms the valve guide (12'). The valve spring (20) is supported on the insert (6"). It is thereby possible to preassemble a valve module, comprising the inlet and exhaust valve (7), the valve spring (20), the spring plate (21), the spring plate keys (22), the valve stem seal and also, where appropriate, the valve seat ring (17), outside the cylinder head. In addition to a precise port geometry, this results in the further advantage of a reduction in the cost of assembling the cylinder head. <IMAGE>

IPC 1-7

F01L 3/08; F02F 1/38

IPC 8 full level

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CPC (source: EP)

F01L 3/085 (2013.01); **F02F 1/38** (2013.01); F02B 2275/18 (2013.01); F02F 2001/241 (2013.01); F02F 2001/245 (2013.01)

Citation (examination)

EP 0629772 A1 19941221 - OPEL ADAM AG [DE]

Cited by

FR2761403A1; US2017058823A1; CN106481476A; EP0744542A1

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