

Title (en)

CYLINDER HEAD HAVING AN INTEGRATED EXHAUST MANIFOLD FOR AN INTERNAL COMBUSTION ENGINE AND METHOD FOR PRODUCING A CAST COMPONENT, IN PARTICULAR A CYLINDER HEAD FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

ZYLINDERKOPF MIT EINEM INTEGRIERTEN ABGASKRÜMMER FÜR EINE BRENNKRAFTMASCHINE UND VERFAHREN ZUR HERSTELLUNG EINES GUSSBAUTEILS, INSBESONDERE EINES ZYLINDERKOPFS FÜR EINE BRENNKRAFTMASCHINE

Title (fr)

CULASSE MUNIE D'UN COLLECTEUR D'ÉCHAPPEMENT INTÉGRÉ, DESTINÉE À UN MOTEUR À COMBUSTION INTERNE, ET PROCÉDÉ DE FABRICATION D'UNE PIÈCE COULÉE, EN PARTICULIER D'UNE CULASSE POUR UN MOTEUR À COMBUSTION INTERNE

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Application

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Abstract (en)

[origin: WO2013045018A2] The invention relates to a cylinder head having an integrated exhaust manifold for an internal combustion engine, wherein the cylinder head is made of a light metal and wherein a coating (7) forming the surface of the exhaust manifold consists, at least in some sections, of a thermally resistant and insulating material, for example a metal and/or a ceramic. The invention further relates to a method for producing a cast component, in particular a cylinder head having an integrated exhaust manifold, wherein a casting core (9) is provided and the casting core (9) is surrounded by a casting tool, wherein the casting core (9) is spaced apart from the casting tool in order to form a cavity, and wherein the cavity is filled with a casting material which, after solidification and separation from the casting tool and the casting core (9), forms the cast component. A thermally insulating coating (7) is applied to the casting core (9) at least in some sections.

IPC 8 full level

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Citation (examination)

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