

Title (en)

METAL CAST COMPONENT AND METHOD FOR PRODUCING A METAL CAST COMPONENT

Title (de)

METALLISCHES GUSSBAUTEIL UND VERFAHREN ZUR HERSTELLUNG EINES METALLISCHEN GUSSBAUTEILS

Title (fr)

PIÈCE MOULÉE MÉTALLIQUE ET PROCÉDÉ DE FABRICATION D'UNE PIÈCE MOULÉE MÉTALLIQUE

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Application

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Priority

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Abstract (en)

[origin: WO2013186055A2] The invention relates to a metal cast component (1), which is intended in particular for parts of internal combustion engines or piston compressors, such as pistons, gearboxes, crankcases and other housings and/or cylinder heads, wherein the cast component (1) consists at least in certain portions of an iron aluminide and/or is a composite cast component comprising at least two portions (2, 3), which consist of a cast iron and/or an iron aluminide and/or a light metal. The invention also relates to a method for producing a metal cast component (1), in particular for parts of internal combustion engines or piston compressors, such as pistons, gearboxes, crankcases and other housings and/or cylinder heads, which consists of one or more cast materials such as cast iron and/or iron aluminide and/or light metal, in which method a first portion (2) of the cast component (1) is produced in a first casting operation and a further portion (3) of the cast component (1) is produced in a further casting operation and a coating, in particular of iron aluminide and/or a nickel alloy, is applied as a coupling agent layer to the first portion (2) before the further casting operation.

IPC 8 full level

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