

Title (en)
METHOD FOR PRODUCING A CAST COMPONENT WITH A CAST-IN PIPE

Title (de)
VERFAHREN ZUM HERSTELLEN EINES GEGOSSENEN BAUTEILES MIT EINEM EINGEGOSSENEN ROHR

Title (fr)
PROCÉDÉ DE FABRICATION D'UN COMPOSANT COULÉ AVEC UN TUBE COULÉ

Publication
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Application
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Abstract (en)
[origin: US2009233116A1] The invention relates to a method for producing a cast component 1 of an internal combustion engine with a cast-in pipe 3 in a casting process with expendable moulds and a permanent pattern or in a casting process with permanent moulds in which a solid core mould 4 is mounted in a split outer mould. To solve the problem of the pipe changing its position during the casting of the component 1, it is proposed according to the invention that a separat pipe holder 5 is integrated into the outer mould or the core mould 4. The pipe 3 is inserted into a retaining section 6 of the pipe holder 5 that is configured in such a manner that it locally surrounds the outer circumference 8 of the pipe 3 at least in part and with little play so that the pipe 3 can expand in the axial direction during casting but is secured against displacements in radial directions caused by buoyancy forces of the liquid casting material. Subsequently the component 1 is cast by the respective method.

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