

Title (en)

METHOD FOR PRODUCING A MODEL FORM CORE BLANK, A MODEL FORM CORE AND AN INVESTMENT CASTING MOLDS AND A CASTING METHOD FOR PRODUCING A CAST PIECE WITH A HOLLOW STRUCTURE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES MODELLFORMKERNROHLINGS, EINES MODELLFORMKERNS UND EINER FEINGUSSFORM SOWIE EIN GIESSVERFAHREN ZUR HERSTELLUNG EINES GUSSTEILS MIT EINER HOHLRAUMSTRUKTUR

Title (fr)

PROCÉDÉ DE FABRICATION D'UN LINGOT DE NOYAU DE MOULAGE MODÈLE, D'UN NOYAU DE MOULAGE MODÈLE ET D'UNE MOULE DE COULÉE FINE AINSI QU'UN PROCÉDÉ DE COULÉE DESTINÉ À LA FABRICATION D'UNE PARTIE COULÉE DOTÉE D'UNE STRUCTURE CREUSE

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Application

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Abstract (en)

[origin: WO2020048774A1] The invention relates to a method for producing a model mould core blank (1), in which a ceramic blank (10) is fixed to a processing holder (50). Whilst the fixing persists, a lost core (12) is manufactured from the ceramic blank (10) on the basis of a 3D model in a CNC manufacturing process, the processing holder (50) being fastened in the running CNC machine. A model blank (20) is then produced by casting model material around the lost core (12) whilst the fixing persists. This forms the basis of a method according to the invention for producing a model mould core (2), in which an outer contour (22) of a lost model (21) is produced from and/or on the model blank (20) on the basis of the 3D model in a second CNC manufacturing process, wherein the fixing persists during this, and wherein the processing holder (50) is fastened in the running CNC machine. In addition, the invention also relates to a method based thereon for producing a precision casting mould (80), in which a ceramic mould (81) is applied to the outer contour (22) of the lost model (21), and to a casting method in which a cast part (100) having a hollow cavity structure (101) is produced by means of the precision casting mould (80).

IPC 8 full level

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