

Title (en)
METHOD OF MATERIAL FORMING PROCESSES IN PREHEATED OR MELTED STATE TO STRONGLY REDUCE THE PRODUCTION COST OF THE PRODUCED PARTS

Title (de)
VERFAHREN FÜR MATERIALFORMUNGSPROZESSE IM VORGEWÄRMTE ODER GESCHMOLZENEN ZUSTAND ZUR ERHEBLICHEN REDUZIERUNG DER HERSTELLUNGSKOSTEN DER HERGESTELLTEN TEILE

Title (fr)
PROCÉDÉ POUR PROCESSUS DE FORMAGE DE MATÉRIAU À L'ÉTAT PRÉCHAUFFÉ OU FONDU PERMETTANT DE RÉDUIRE FORTEMENT LE COÛT DE PRODUCTION DES PIÈCES PRODUITES

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Application
EP 13741707 A 20130719

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• EP 12382281 A 20120713
• EP 2013065275 W 20130719
• EP 13741707 A 20130719

Abstract (en)
[origin: EP2684627A1] A method to manufacture a forming tool, which method can be used in material shaping processes involving heat transference from the shaped part into the forming tool and from the latter to a cooling medium, through the provision of a permanent or semi-permanent isolating and/or releasing layer over the in-cavity surface of the die in combination with the use of high thermal conductivity materials for the die. This method allows to severely reduce the manufacturing cost of the produced part through productivity/durability optimization and continuous monitoring of the process. The system is applicable for all material forming processes involving the heat transfer from the formed part to the forming tool and cooling down of this later during the consecutive forming cycles, in particular for High pressure die casting, semi-solid die casting, squeeze casting, hot forging, hot glass forming and tube manufacturing amongst others.

IPC 8 full level
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