

Title (en)
PROCESS FOR MANUFACTURING METAL PARTS

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Abstract (en)
[origin: WO8806067A1] Process for manufacturing metal parts based on the principle of die casting. Whereas in conventional die casting the molten metal is introduced into a mould cavity and a top die is pressed into the molten metal, provided that the cavity is completely filled for as long as the metal remains molten, the invention provides for the use of a mould with a seal (4) on its upper edge flange (5) and then, in a first step, for introduction of the top die (3) to a sufficient depth so that the level of the molten metal rises until the raised space created by the seal is filled. In this condition, the metal is allowed to solidify, and then the definitively shaped part is manufactured by pressing in the top die, with distortion and expansion of the seal. The part so obtained is completely solid, has outstanding dimensional stability, and possesses the texture and corresponding mechanical strength of a forged part.

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