

Title (en)
Investment casting with wear surfaces

Title (de)
Feinguss mit Verschleissflächen

Title (fr)
Moulage de précision ayant des surfaces d'usure

Publication
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Application
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Abstract (en)
[origin: EP0575685A1] The method according to the invention makes it possible to produce castings (1) with ceramics embedded in the manner of composites. In this method, overheated melt is poured into a ceramic moulding shell (30), integrated into the cavity of which is at least one porous ceramic body. Such a ceramic body (2), which has a fully intercommunicating pore volume (22) and the ceramic structure (26) of which forms a three-dimensional network, at least partially fills the cavity of the moulding shell. The porous ceramic body is connected to the wall of the moulding shell. In the case of refiner plates (1) for paper manufacture, the webs (10) can be reinforced in the region (20) of the beating surfaces (15) with embedded ceramic (2). Castings according to the invention can also be used for the production of turbine blades (100) with armoured tips.
<IMAGE>

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