

Title (en)  
Investment casting with wear surfaces

Title (de)  
Feinguss mit Verschleissflächen

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

Publication  
**EP 0575685 B1 19970115 (DE)**

Application  
**EP 92810477 A 19920623**

Priority  
EP 92810477 A 19920623

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>

IPC 1-7  
**B22D 19/08**; **B22D 19/00**; **B22D 19/14**; **B22F 3/26**

IPC 8 full level  
**B22D 19/00** (2006.01); **B22D 19/08** (2006.01); **B22D 19/14** (2006.01); **C22C 1/10** (2006.01); **F01D 5/20** (2006.01)

CPC (source: EP)  
**B22D 19/0054** (2013.01); **B22D 19/08** (2013.01); **B22D 19/14** (2013.01); **C22C 1/1036** (2013.01); **F01D 5/20** (2013.01)

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Designated contracting state (EPC)  
AT CH DE FR GB IT LI

DOCDB simple family (publication)  
**EP 0575685 A1 19931229**; **EP 0575685 B1 19970115**; AT E147669 T1 19970215; DE 59207902 D1 19970227; JP H06170514 A 19940621

DOCDB simple family (application)  
**EP 92810477 A 19920623**; AT 92810477 T 19920623; DE 59207902 T 19920623; JP 14958393 A 19930621