

Title (en)

Tool for producing cast components, method for producing said tool, and method for producing cast components

Title (de)

Werkzeug zum Herstellen von Gussbauteilen, Verfahren zum Herstellen des Werkzeugs und Verfahren zum Herstellen von Gussbauteilen

Title (fr)

Outil de fabrication de composants coules, procede de fabrication de l'outil et procede de fabrication de composants coules

Publication

EP 2113318 A3 20100303 (DE)

Application

EP 09168304 A 20040923

Priority

- EP 04786823 A 20040923
- DE 10346953 A 20031009

Abstract (en)

[origin: WO2005039803A2] The invention relates to a tool for producing cast components, especially gas turbine components, from reactive nonferrous molten metals, especially titanium alloys, said tool being embodied as a casting mould. According to the invention, at least one region of the casting mould (10) that comes into contact with the reactive nonferrous molten metal consists of yttrium oxide, magnesium oxide and calcium oxide.

IPC 8 full level

B22C 9/04 (2006.01); **B22C 1/04** (2006.01); **F01D 25/00** (2006.01)

CPC (source: EP KR US)

B22C 1/00 (2013.01 - KR); **B22C 1/04** (2013.01 - EP KR US); **B22C 9/04** (2013.01 - EP KR US); **F01D 25/00** (2013.01 - KR); **F01D 25/005** (2013.01 - EP US); **F05D 2230/21** (2013.01 - EP US); **F05D 2300/133** (2013.01 - EP US)

Citation (search report)

- [Y] US 4557316 A 19851210 - TAKAYANAGI TAKESHI [JP], et al
- [Y] EP 0554198 A1 19930804 - HOWMET CORP [US], et al
- [Y] US 5944088 A 19990831 - FEAGIN ROY C [US]
- [Y] GB 993161 A 19650526 - CREUSOT FORGES ATELIERS
- [A] US 2912729 A 19591117 - WEBB JOHN M
- [A] EP 0787547 B1 19990915 - ROLLS ROYCE PLC [GB]
- [IY] PATENT ABSTRACTS OF JAPAN vol. 009, no. 128 (M - 384) 4 June 1985 (1985-06-04)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

DE 10346953 A1 20050504; CN 1863621 A 20061115; EP 1670602 A2 20060621; EP 2113318 A2 20091104; EP 2113318 A3 20100303; JP 2007508146 A 20070405; JP 4818113 B2 20111116; KR 100801970 B1 20080212; KR 20060100375 A 20060920; US 2007034350 A1 20070215; US 7389809 B2 20080624; WO 2005039803 A2 20050506; WO 2005039803 A3 20050623

DOCDB simple family (application)

DE 10346953 A 20031009; CN 200480029557 A 20040923; DE 2004002106 W 20040923; EP 04786823 A 20040923; EP 09168304 A 20040923; JP 2006529615 A 20040923; KR 20067006934 A 20060410; US 57466004 A 20040923