

Title (en)
METHOD FOR THE PRODUCTION OF CAST COMPONENTS

Title (de)
VERFAHREN ZUM HERSTELLEN VON GUSSBAUTEILEN

Title (fr)
PROCEDE POUR PRODUIRE DES PIECES COULEES

Publication
EP 1706516 A2 20061004 (DE)

Application
EP 04802982 A 20041222

Priority
• DE 2004002801 W 20041222
• DE 102004002956 A 20040121

Abstract (en)
[origin: WO2005071128A2] The invention relates to a method for the production of a cast component, in particular a gas turbine component. The inventive method comprises at least the following steps: a) a crucible and at least one semi-finished product is prepared from an intermetallic titanium-aluminium material; b) the or each semi-finished product made of intermetallic titanium-aluminium material is melted in the crucible; c) at least one additional element or an additional compound is added to the melt, whereby the or each element and/or the or each compound is introduced into the melt according to the melting temperature thereof; d) a casting mould is prepared; e) the casting mould is filled with the melt; f) the melt is solidified in the casting mould; g) the casting component is extracted from the casting mould.

IPC 8 full level
C22C 14/00 (2006.01); **C22C 1/02** (2006.01); **C22C 1/03** (2006.01); **C22F 1/18** (2006.01)

CPC (source: EP US)
C22C 1/02 (2013.01 - EP US); **C22C 14/00** (2013.01 - EP US); **C22F 1/183** (2013.01 - EP US)

Citation (search report)
See references of WO 2005071128A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005071128 A2 20050804; WO 2005071128 A3 20060126; DE 102004002956 A1 20050811; EP 1706516 A2 20061004;
EP 1706516 B1 20160928; JP 2007518569 A 20070712; JP 2011115860 A 20110616; JP 4970051 B2 20120704; US 2007151696 A1 20070705;
US 7360579 B2 20080422

DOCDB simple family (application)
DE 2004002801 W 20041222; DE 102004002956 A 20040121; EP 04802982 A 20041222; JP 2006549851 A 20041222;
JP 2011066699 A 20110324; US 58597804 A 20041222