

Title (en)

Method and apparatus for precision casting.

Title (de)

Vorrichtung und Verfahren zum Präzisionsgiessen.

Title (fr)

Dispositif et procédé pour couler avec précision.

Publication

EP 0457502 B1 19951011 (EN)

Application

EP 91304192 A 19910509

Priority

JP 12438390 A 19900515

Abstract (en)

[origin: EP0457502A1] A method for precision casting of titanium or titanium alloy which comprises establish molten metal by induction heating in a assembly formed with water cooled copper segments (2a,2b...2h) disposed circlewise on the inside of an induction coil (5) in a state insulated from each other and casting the molten metal into a permeable mold (21) by vacuum casting. A precision casting method for titanium or titanium alloy which comprises an induction coil (5), an assembly (2) formed with the aforementioned copper segments (2a,2b...2h) and fed with base metal (6) from the under side thereof and a permeable mold for casting the base metal molten in the assembly (21) by means of vacuum casting. According to this invention, it is possible to obtain precision castings of metals having high melting points and high activity such as titanium, titanium alloy or the like. <IMAGE>

IPC 1-7

B22D 18/06; **B22C 9/04**

IPC 8 full level

B22D 21/02 (2006.01); **B22D 18/06** (2006.01); **B22D 23/00** (2006.01); **F27D 11/06** (2006.01); **H05B 6/22** (2006.01)

CPC (source: EP)

B22D 18/06 (2013.01)

Cited by

US5722481A; EP0739667A1; EP0747648B1

Designated contracting state (EPC)

DE ES FR GB IT SE

DOCDB simple family (publication)

EP 0457502 A1 19911121; **EP 0457502 B1 19951011**; DE 69113676 D1 19951116; DE 69113676 T2 19960418; ES 2080897 T3 19960216; JP 2541341 B2 19961009; JP H0422562 A 19920127

DOCDB simple family (application)

EP 91304192 A 19910509; DE 69113676 T 19910509; ES 91304192 T 19910509; JP 12438390 A 19900515