

Title (en)

Methods for centrifugally casting highly reactive titanium metals

Title (de)

Verfahren zum Schleudergießen hochreaktiver Titanmetalle

Title (fr)

Procédés pour mouler de manière centrifuge des métaux en titane hautement réactif

Publication

EP 2067547 A1 20090610 (EN)

Application

EP 08169707 A 20081121

Priority

US 94534107 A 20071127

Abstract (en)

Methods for centrifugally casting a highly reactive titanium metal involving providing a cold wall induction crucible having a plurality of induction coils and a removable bottom plate, using a power source to heat a titanium metal charge in the induction crucible to obtain a molten metal, preheating a secondary crucible and placing the preheated secondary crucible into a centrifugal casting machine, positioning the centrifugal casting machine having the secondary crucible beneath the induction crucible, withdrawing the bottom plate of the induction crucible and turning off the power source to the induction crucible to allow the molten metal to fall from the induction crucible into the secondary crucible, and accelerating the secondary crucible to centrifugally force the molten metal into a casting mold to produce a cast component.

IPC 8 full level

B22D 13/00 (2006.01)

CPC (source: EP KR US)

B22D 13/00 (2013.01 - EP KR US); **B22D 13/06** (2013.01 - EP US); **B22D 21/06** (2013.01 - KR)

Citation (applicant)

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