

Title (en)

Systems for centrifugally casting highly reactive titanium metals

Title (de)

Systeme zum Schleudergießen hochreaktiver Titanmetalle

Title (fr)

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

Publication

EP 2067546 A1 20090610 (EN)

Application

EP 08169706 A 20081121

Priority

US 94538807 A 20071127

Abstract (en)

Systems for centrifugally casting a highly reactive titanium metal including a cold wall induction crucible for containing a titanium metal charge, the induction crucible having a plurality of induction coils and a removable bottom plate, a power source to heat the titanium metal charge in the induction crucible to obtain a molten metal, a preheated secondary crucible for catching the molten metal as it falls from the induction crucible after the removable bottom plate has been withdrawn and the power source turned off, and a centrifugal casting machine for holding and accelerating the secondary crucible to centrifugally force the molten metal into a casting mold and 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)

Citation (applicant)

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EP 08169706 A 20081121; JP 2008299046 A 20081125; KR 20080118018 A 20081126; TW 97144151 A 20081114; US 94538807 A 20071127