

Title (en)

Method of modifying thermal and electrical properties of multi-component titanium alloys

Title (de)

Verfahren zur Modifizierung thermischer und elektrischer Eigenschaften von Mehrkomponenten-Titanlegierungen

Title (fr)

Procédé pour modifier les propriétés thermiques et électriques d'alliages de titane à plusieurs composants

Publication

EP 2453029 A1 20120516 (EN)

Application

EP 11172128 A 20110630

Priority

US 92305610 A 20101112

Abstract (en)

A method of increasing the thermal conductivity and decreasing the electrical resistivity of a titanium alloy. Boron is introduced into the titanium alloy to produce TiB precipitates. The TiB precipitates are then aligned in a direction of metal flow by hot metalworking.

IPC 8 full level

C22C 14/00 (2006.01); **C22C 1/04** (2006.01); **C22C 1/10** (2006.01)

CPC (source: EP KR US)

B22D 21/06 (2013.01 - KR); **B22F 3/1039** (2013.01 - EP US); **C22C 1/04** (2013.01 - KR); **C22C 1/0458** (2013.01 - EP US); **C22C 14/00** (2013.01 - EP US); **C22C 32/0031** (2013.01 - EP US); **C22C 32/0073** (2013.01 - EP US); **C22F 1/18** (2013.01 - KR)

Citation (search report)

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Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (application)

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