

Title (en)
Titanium-containing Article and its method of manufacture

Title (de)
Titan-haltiges Artikel und verfahren zur dessen Herstellung

Title (fr)
Objet contenant du titane et son procédé de fabrication

Publication
EP 2281906 A1 20110209 (EN)

Application
EP 10161351 A 20100428

Priority
US 49440509 A 20090630

Abstract (en)
An article made of an alloy, and a method for making the article, are presented. The alloy is substantially free of martensite, and comprises the following composition: at least about 75 weight percent titanium; up to about 10 weight percent of a beta stabilizing component; from about 3 weight percent to about 15 weight percent of an alpha stabilizing component; and from about 0.05 weight percent to about 5 weight percent germanium. Another embodiment is a method for fabricating an article. The method comprises providing a billet made of an alloy as described above, and stabilizing the billet microstructure to form a stabilized billet; the method may further comprise superplastically processing the stabilized billet to form a processed item.

IPC 8 full level
C22C 1/02 (2006.01); **C22C 14/00** (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 (applicant)

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Designated extension state (EPC)
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