Title (en)

ALPHA-BETA TITANIUM ALLOY

Title (de)

ALPHA/BETA-TITANLEGIERUNG

Title (fr)

ALLIAGE DE TITANE ALPHA-BÊTA

Publication

EP 3276016 B1 20191009 (EN)

Application

EP 16768566 A 20160316

Priority

- JP 2015064275 A 20150326
- JP 2016009417 A 20160121
- JP 2016058247 W 20160316

Abstract (en)

[origin: EP3276016A1] To provide an ±-² titanium alloy that has high strength and excellent hot workability of the level of the ±-² titanium alloy, typified by the Ti-6Al-4V, while exhibiting more excellent machinability than the Ti-6Al-4V. The ±-² titanium alloy includes, in percent by mass: at least one element of 0.1 to 2.0% of Cu and 0.1 to 2.0% of Ni; 2.0 to 8.5% of Al; 0.08 to 0.25% of C; and 1.0 to 7.0% in total of at least one element of 0 to 4.5% of Cr and 0 to 2.5% of Fe, with the balance being Ti and inevitable impurities.

IPC 8 full level

C22C 14/00 (2006.01); **C22F 1/00** (2006.01); **C22F 1/18** (2006.01)

CPC (source: EP US)

C22C 14/00 (2013.01 - EP US); **C22F 1/183** (2013.01 - EP US); C22F 1/00 (2013.01 - EP US); C22F 1/18 (2013.01 - EP US)

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 3276016 A1 20180131; **EP 3276016 A4 20180822**; **EP 3276016 B1 20191009**; CN 107406918 A 20171128; JP 2016183407 A 20161020; JP 6719216 B2 20200708; KR 102027100 B1 20191001; KR 20170125981 A 20171115; RU 2017134565 A 20190409; RU 2017134565 A3 20190409; RU 2695852 C2 20190729; US 2018044763 A1 20180215

DOCDB simple family (application)

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