

Title (en)
Creep-resistant TiAl alloy

Title (de)
Kriechfeste TiAl - Legierung

Title (fr)
Alliage TiAl résistant au fluage

Publication
EP 2851445 B1 20190904 (DE)

Application
EP 13185280 A 20130920

Priority
EP 13185280 A 20130920

Abstract (en)
[origin: US2015086414A1] Disclosed is a TiAl alloy for high-temperature applications which comprises not more than 43 at. % of Al, from 3 at. % to 8 at. % of Nb, from 0.2 at. % to 3 at. % of Mo and/or Mn, from 0.05 at. % to 0.5 at. % of B, from 0.1 at. % to 0.5 at. % of C, from 0.1 at. % to 0.5 at. % of Si and Ti as balance. Also disclosed is a process for producing a component made of this TiAl alloy and the use of corresponding TiAl alloys in components of flow machines at operating temperatures up to 850° C.

IPC 8 full level
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CPC (source: EP US)
C22C 1/02 (2013.01 - EP US); **C22C 14/00** (2013.01 - EP US); **C22F 1/002** (2013.01 - EP US); **C22F 1/183** (2013.01 - EP US);
F05D 2300/133 (2013.01 - US)

Cited by
CN110512116A; EP3266889A1; CN104878452A; EP3266888A1; EP3269838A1; US10590520B2

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EP 2851445 A1 20150325; EP 2851445 B1 20190904; ES 2747155 T3 20200310; US 2015086414 A1 20150326; US 9994934 B2 20180612

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