

Title (en)

Oxidation- and corrosion resistant alloy for parts subjected to medium high temperatures and based on doped iron trialuminide Fe₃Al.

Title (de)

Oxydations- und korrosionsbeständige Legierung für Bauteile für einen mittleren Temperaturbereich auf der Basis von dotiertem Eisenaluminid Fe₃Al.

Title (fr)

Alliage résistant à l'oxydation et à la corrosion pour pièces utilisables à des températures intermédiaires et basés sur le trialuminiure de fer (Fe₃Al) dopé.

Publication

EP 0465686 B1 19940921 (DE)

Application

EP 90113008 A 19900707

Priority

EP 90113008 A 19900707

Abstract (en)

[origin: US5158744A] Oxidation- and corrosion-resistant alloy for components for a medium temperature range based on doped iron aluminide Fe₃Al having the following composition: Al=24-28 at.-% Nb=0.1-2 at.-% Cr=0.1-10 at.-% B=0.1-1 at.-% Si=0.1-2 at.-% Fe=remainder. At 550 DEG C. high temperature yield points of 500 to more than 650 MPa are obtained.

IPC 1-7

C22C 38/06

IPC 8 full level

C22C 38/00 (2006.01); **C22C 38/06** (2006.01); **C22C 38/32** (2006.01); **C22C 38/34** (2006.01)

CPC (source: EP KR US)

C22C 38/06 (2013.01 - EP KR US)

Cited by

CN113528926A; EP0602904A1; EP0609682A1; CN1059713C; EP0587960A1; US5346562A

Designated contracting state (EPC)

CH DE GB LI

DOCDB simple family (publication)

EP 0465686 A1 19920115; EP 0465686 B1 19940921; CS 206791 A3 19920318; CZ 282696 B6 19970917; DE 59007276 D1 19941027; JP 3229339 B2 20011119; JP H04308061 A 19921030; KR 100205263 B1 19990701; KR 920002814 A 19920228; PL 166845 B1 19950630; PL 290941 A1 19920210; RU 1839684 C 19931230; US 5158744 A 19921027

DOCDB simple family (application)

EP 90113008 A 19900707; CS 206791 A 19910704; DE 59007276 T 19900707; JP 16309891 A 19910703; KR 910011463 A 19910706; PL 29094191 A 19910704; SU 5001206 A 19910705; US 72127391 A 19910626