

Title (en)

USE OF AN IRON-CHROMIUM-ALUMINIUM ALLOY WITH LONG SERVICE LIFE AND MINOR CHANGES IN HEAT RESISTANCE

Title (de)

VERWENDUNG EINER EISEN-CHROM-ALUMINIUM-LEGIERUNG MIT HOHER LEBENSDAUER UND GERINGEN ÄNDERUNGEN IM WARMWIDERSTAND

Title (fr)

UTILISATION D'UN ALLIAGE FER-CHROME-ALUMINIUM AYANT UNE DURÉE DE VIE ÉLEVÉE ET DES VARIATIONS FAIBLES DE RÉSISTANCE À LA CHALEUR

Publication

EP 2127472 B1 20120627 (DE)

Application

EP 08706758 A 20080115

Priority

- DE 2008000061 W 20080115
- DE 102007005154 A 20070129

Abstract (en)

[origin: DE102007005154A1] Use of iron-chromium-aluminum alloys in 0.020 -0.300 mm thick foils for heating elements is new, where the alloys have the composition (wt%): aluminum 4.5 - 6.5; chromium 16 -14; silicon 0.05 - 0.7; manganese 0.001 - 0.5; yttrium 0.02 - 0.1; zirconium 0.02 - 0.1; hafnium 0.02 - 0.1; carbon 0.003 - 0.20; N 0.03 max; S 0.01 max; S 0.01 max; Cu 0.5 max, the remainder being iron.

IPC 8 full level

H05B 3/12 (2006.01); **C22C 38/28** (2006.01)

CPC (source: EP US)

C22C 38/005 (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/28** (2013.01 - EP US); **H05B 3/12** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 102007005154 A1 20080731; **DE 102007005154 B4 20090409**; CN 101578911 A 20091111; CN 101578911 B 20130710; EP 2127472 A2 20091202; EP 2127472 B1 20120627; ES 2388583 T3 20121016; JP 2010516903 A 20100520; JP 5409390 B2 20140205; PL 2127472 T3 20121130; US 2010092749 A1 20100415; WO 2008092420 A2 20080807; WO 2008092420 A3 20080925

DOCDB simple family (application)

DE 102007005154 A 20070129; CN 200880001373 A 20080115; DE 2008000061 W 20080115; EP 08706758 A 20080115; ES 08706758 T 20080115; JP 2009547523 A 20080115; PL 08706758 T 20080115; US 44912708 A 20080115