

Title (en)

AMORPHOUS IRON-NICKEL-BASED BRAZING FOIL AND BRAZING METHOD

Title (de)

AMORPHE HARTLOTTFOLIE AUF EISEN-NICKEL-BASIS SOWIE VERFAHREN ZUM HARTLÖTEN

Title (fr)

FEUILLE EN METAL D'APPORT DE BRASAGE FORT AMORPHE A BASE DE FER-NICKEL ET PROCEDE DE BRASAGE FORT

Publication

EP 1917120 A1 20080507 (DE)

Application

EP 06761819 A 20060718

Priority

- DE 2006001242 W 20060718
- DE 102005039803 A 20050822

Abstract (en)

[origin: WO2007022740A1] An iron-nickel-based brazing foil and a brazing method. An amorphous ductile brazing foil with a composition is produced comprising Fe_aNi_bCr_cSi_dB_eMO_fP_g, where 25 = a = 50 atomic %; 25 < b < 50 atomic %; 5 < c = 15 atomic %; 4 = d = 15 atomic %; 4 = e = 15 atomic %; 0 = f = 5 atomic %; 0 < g = 6 atomic %; and incidental impurities, where 10 = d+e+g = 28 atomic % with a+b+c+d+e+f+g =100. Outstanding brazed joints can be produced with these brazing foils.

IPC 8 full level

B23K 35/30 (2006.01); **B23K 35/02** (2006.01); **C22C 19/05** (2006.01); **C22C 38/08** (2006.01); **C22C 45/02** (2006.01)

CPC (source: EP KR US)

B23K 31/02 (2013.01 - US); **B23K 35/0233** (2013.01 - EP KR US); **B23K 35/3053** (2013.01 - EP KR US); **B23K 35/3066** (2013.01 - EP KR US); **C21D 1/00** (2013.01 - EP KR US); **C22C 1/11** (2023.01 - EP KR US); **C22C 19/03** (2013.01 - EP KR US); **C22C 45/02** (2013.01 - EP KR US); **C22C 45/04** (2013.01 - EP KR US); **C22F 1/10** (2013.01 - EP KR US); **F28F 21/089** (2013.01 - EP KR US); **C21D 2201/03** (2013.01 - EP US); **Y10T 428/12951** (2015.01 - EP US); **Y10T 428/12958** (2015.01 - EP US)

Citation (search report)

See references of WO 2007022740A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2007022740 A1 20070301; CN 101291775 A 20081022; CN 101291775 B 20111130; DE 102005039803 A1 20070524; EP 1917120 A1 20080507; KR 20080043365 A 20080516; US 2009130483 A1 20090521; US 2013146184 A1 20130613; US 2013333810 A9 20131219

DOCDB simple family (application)

DE 2006001242 W 20060718; CN 200680039390 A 20060718; DE 102005039803 A 20050822; EP 06761819 A 20060718; KR 20087006740 A 20080320; US 201313760400 A 20130206; US 99078506 A 20060718