

Title (en)

High strength nickel-based amorphous alloy

Title (de)

Amorphe Hochtemperaturlegierung auf der Basis von Nickel

Title (fr)

Alliage amorphe résistant à la température haute à base de nickel

Publication

**EP 1522602 A1 20050413 (EN)**

Application

**EP 04394062 A 20041006**

Priority

US 50888203 P 20031007

Abstract (en)

A novel Ni-based amorphous alloy is provided. The alloy has the following composition, by weight %: 10.0 to 40.0% of Cr; 25.0 to 42.0% of Mo; 0.6 to 6.0% of Si; 0.3 to 3.0% of B; 1.2 to 5.0% of Zr; 0.1 - 1.8% of at least one element selected from the rare-earth group including Ce and La; 0.1-1.5% of Y, and Ni is the balance. The Ni-based amorphous alloy is provided for use in casting of microwires with glass insulation. <IMAGE>

IPC 1-7

**C22C 45/04**

IPC 8 full level

**B22D 11/06** (2006.01); **C22C 19/05** (2006.01); **C22C 45/04** (2006.01); **C23C 30/00** (2006.01)

CPC (source: EP)

**C22C 45/04** (2013.01)

Citation (search report)

- [AD] SU 428028 A1 19740515
- [AD] US 6325868 B1 20011204 - KIM DO HYANG [KR], et al
- [A] EP 0808078 A1 19971119 - AMT LTD [IL]

Cited by

CN111279001A; CN103917673A; US9863024B2; US11377720B2; US9957596B2; US11905582B2; US9816166B2; US9365916B2; US11384417B2; US9556504B2; US9863025B2; US9534283B2; US9920400B2; US9920410B2; US10287663B2; US10000834B2; US10458008B2; US11371108B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**EP 1522602 A1 20050413**; JP 2005163171 A 20050623

DOCDB simple family (application)

**EP 04394062 A 20041006**; JP 2004292183 A 20041005