

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)

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- [AD] US 6325868 B1 20011204 - KIM DO HYANG [KR], et al
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