Title (en)

WHITE AU-BASE BULK SOLIDIFYING AMORPHOUS ALLOY

Title (de)

MASSIVGLASBILDENDE WEISSGOLDLEGIERUNG

Title (fr)

ALLIAGE D'OR BLANC GÉNÉRATEUR DE VERRE MASSIF

Publication

EP 3478864 A1 20190508 (DE)

Application

EP 17739868 A 20170629

Priority

- DE 102016008074 A 20160630
- EP 2017000777 W 20170629

Abstract (en)

[origin: WO2018001564A1] A white gold alloy of the composition (Au1-a-bAga(Pd1-cPtc)b)100-x-y(Cu1-d- eLdMe)x(Si1-fGef)y has been produced in which L represents In, Ga or Sn or Ld represents L1 d1L2 d2 or L1 d1L2 d2L3 d3, wherein L1, L2 and L3 are selected from the elements In, Ga, or Sn; M represents one or more elements of the elements Ni, Co, and Fe; x and y are at%, wherein x = 10 - 30 at% and y = 10 - 16.3 at%; (100-x-y), x, and y can contain unavoidable trace impurities; a, b, c, d, e, and f are a fraction of 1; a = 0.02 - 0.20, b = 0 - 0.1, c = 0 - 1, d = 0.02 -0.40, d1 = 0 to 0.4; d2 = 0 to 0.4; and d3 = 0 to 0.4, where d1 + d2 + d3 = d, e = 0 - 0.12 (total fraction of the elements Ni, Co, and Fe) and f = 0 - 0.40. The white gold alloy is suitable for a broad range of solid glass forming processes and for jewelry applications.

IPC 8 full level

C22C 5/02 (2006.01); **C22C 45/00** (2006.01)

CPC (source: EP)

C22C 5/02 (2013.01); **C22C 45/00** (2013.01)

Citation (search report)

See references of WO 2018001564A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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