

Title (en)

Alloys for jewellery for making nickel-free white gold objects.

Title (de)

Juwelenlegierungen zur Herstellung von nickellosen Weißgoldobjekten

Title (fr)

Alliages pour joaillerie pour fabriquer des bijoux en or blanc sans nickel

Publication

**EP 2045343 A1 20090408 (EN)**

Application

**EP 08103100 A 20080328**

Priority

IT VR20070134 A 20070927

Abstract (en)

The present invention relates to the use of gallium Ga as a whitening element for the production of white gold alloys which are free of nickel Ni. Said use may be applied both during the direct production of the gold alloy and during the prior production of a specific master alloy. In general, the invention is intended for the production of white gold alloys whose gold Au content, as a weight relative to the total weight of the white gold alloy, is within the range 31 % # Au # 92 %. The quantity of gallium Ga used, as a weight relative to the total weight of the white gold alloy, is within the range 1,4 % # Ga # 30.0 %.

IPC 8 full level

**C22C 5/02** (2006.01)

CPC (source: EP)

**C22C 5/02** (2013.01); **C22C 30/02** (2013.01); **C22C 30/06** (2013.01)

Citation (applicant)

- DE 4423646 C1 19950817 - WIELAND EDELMETALLE [DE]
- DE 4320928 C1 19940317 - HERAEUS KULZER GMBH [DE]
- DE 3414128 A1 19851212 - HERAEUS EDELMETALLE GMBH [DE]

Citation (search report)

- [X] DE 4320928 C1 19940317 - HERAEUS KULZER GMBH [DE]
- [X] DE 4423646 C1 19950817 - WIELAND EDELMETALLE [DE]
- [X] EP 0424775 A1 19910502 - DEGUSSA [DE]
- [X] US 5045411 A 19910903 - TAYLOR ARTHUR D [US], et al

Cited by

US11441210B2; RU2645423C1; CN113215431A; DE102015011788A1; EP2322316A4; ITPD20130003A1; CN104884650A; EP3165621A1; EP3165622A1; JP2017089002A; CN106676368A; WO2014108848A1; US10471486B2; WO2017143048A1; WO2014108849A1; EP3144401A1; WO2016151228A1; US10364481B2

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