

Title (en)
ELECTROPLATED PRODUCT HAVING A PRECIOUS METAL FINISHING LAYER AND IMPROVED CORROSION RESISTANCE, METHOD FOR ITS PRODUCTION AND USES THEREOF

Title (de)
ELEKTROPLATTIERTES PRODUKT MIT EINER EDELMETALLOBERFLÄCHENSCHICHT UND VERBESSERTER KORROSIONSBESTÄNDIGKEIT, VERFAHREN ZU DESSEN HERSTELLUNG UND VERWENDUNGEN DAVON

Title (fr)
PRODUIT PLAQUÉ PRÉSENTANT UNE COUCHE DE FINITION DE MÉTAL PRÉCIEUX ET UNE RÉSISTANCE À LA CORROSION AMÉLIORÉE, SON PROCÉDÉ DE PRODUCTION ET LEURS UTILISATIONS

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Application
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Abstract (en)
This invention provides an electroplated product with a precious metal finishing layer that has an improved corrosion and abrasion resistance. The electroplated product comprises two electroplated copper alloy layers having a different copper concentration (e.g. white bronze and yellow bronze). The electroplated product is especially suitable for use in jewelry, fashion, leather, watch, eyewear, trinkets and/or lock industry. Another advantage of the electroplated product is that the use of allergenic nickel or expensive palladium intermediate layers against copper migration can be dispensed with. This means that the electroplated product can be non-allergenic (nickel-free) and be provided in a more economical and environment-friendly manner. A method for the production of the inventive electroplated product is presented. Furthermore, the use of the inventive electroplated product in the jewelry, fashion, leather, watch, eyewear, trinkets and/or lock industry is suggested.

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Citation (applicant)

- WO 2013164165 A1 20131107 - UMICORE GALVANOTECHNIK GMBH [DE]
- WO 2008003216 A1 20080110 - BYD CO LTD [CN], et al

Citation (search report)

- [XA] US 2003059634 A1 20030327 - NAOI KOICHI [JP], et al
- [XA] JP 2003096592 A 20030403 - KAWAGUCHIKO SEIMITSU KK
- [AD] WO 2013164165 A1 20131107 - UMICORE GALVANOTECHNIK GMBH [DE]
- [A] JP 2002060993 A 20020228 - KAWAGUCHIKO SEIMITSU KK

Cited by
CH715949A1; EP3705607A1; CN113767191A; WO2020182679A1; WO2023275215A1

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