

Title (en)  
ECONOMICAL TIMEPIECE DISPLAY COMPONENT

Title (de)  
PREISGÜNSTIGE KOMPONENTE FÜR UHRENANZEIGEN

Title (fr)  
COMPOSANT D'AFFICHAGE D'HORLOGERIE ECONOMIQUE

Publication  
**EP 3220209 A1 20170920 (FR)**

Application  
**EP 16160071 A 20160314**

Priority  
EP 16160071 A 20160314

Abstract (en)  
[origin: JP2017167134A] PROBLEM TO BE SOLVED: To provide a high-reliability economical method for manufacturing a timepiece display or hand-fitting component including an aesthetic and/or visible surface.SOLUTION: Provided is a method for manufacturing a timepiece display or hand-fitting component 1, comprising: choosing a first material which is easy to shape or to machine; making a workpiece 3 from the first material; choosing a second material to make a surface 2 of the component 1, which is an amorphous metal alloy or has a nanocrystalline structure or includes nickel or nickel-phosphorus, or which is a pure metal or an alloy of gold and/or silver and/or copper and/or rhodium and/or titanium and/or aluminum; coating the workpiece 3 with at least a thick layer 4 with an initial thickness E of 20 µm or more made from the second material, on the surface of the component 1; and removing all or part of the thick layer 4 by machining the surface 2 with a diamond tool.SELECTED DRAWING: Figure 4

Abstract (fr)  
Procédé de fabrication économique d'un composant (1) d'affichage ou d'aiguillage d'horlogerie selon lequel : - on choisit un premier matériau facile à mettre en forme ou à usiner; - on réalise un lopin (3) dans ledit premier matériau ; - on choisit, pour la réalisation de chaque surface d'aspect (2) dudit composant (1), un deuxième matériau, qui est un alliage métallique amorphe ou de structure nanocristalline ou comporte du nickel ou du nickel-phosphore, ou qui est un métal pur ou un alliage d'or et/ou argent et/ou cuivre et/ou rhodium et/ou titane et/ou aluminium; - on recouvre ledit lopin (3), au moins sur les surfaces destinées à rester visibles sur ledit composant (1), d'une couche épaisse (4), d'une épaisseur initiale (E) supérieure à 20 micromètres, dudit deuxième matériau; on usine par diamantage à l'outil au moins une dite surface d'aspect (2), en enlevant tout ou partie de ladite couche épaisse (4).

IPC 8 full level  
**G04B 19/04** (2006.01); **G04B 19/10** (2006.01); **G04B 19/12** (2006.01)

CPC (source: CN EP US)  
**G04B 19/042** (2013.01 - EP US); **G04B 19/10** (2013.01 - EP US); **G04B 19/103** (2013.01 - EP US); **G04B 19/12** (2013.01 - EP US); **G04D 3/0043** (2013.01 - CN); **G04D 3/0046** (2013.01 - CN EP US); **G04D 3/0051** (2013.01 - EP US); **G04D 3/0069** (2013.01 - CN)

Citation (search report)  
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**EP 16160071 A 20160314**; CH 3292016 A 20160314; CN 201710144476 A 20170313; HK 18103138 A 20180305; JP 2017041390 A 20170306; US 201715450211 A 20170306