

Title (en)  
PART FOR CLOCK MOVEMENT

Title (de)  
BAUTEIL FÜR UHRWERK

Title (fr)  
PIÈCE POUR MOUVEMENT D'HORLOGERIE

Publication  
**EP 3273305 A1 20180124 (FR)**

Application  
**EP 16180228 A 20160719**

Priority  
EP 16180228 A 20160719

Abstract (en)  
[origin: JP2018013480A] PROBLEM TO BE SOLVED: To provide a pivot arbor which both limits the sensitivity to magnetic fields and is improved in wear resistance, shock resistance and corrosion resistance. SOLUTION: The invention relates to a pivot arbor comprising a metal pivot at each of its ends. The metal is a non-magnetic aluminium alloy in order to limit its sensitivity to magnetic fields. At least an outer surface 5 of one of the two pivots 3 is deep-hardened to a predetermined depth with respect to the rest of the arbor to harden the pivots 3. SELECTED DRAWING: Figure 2

Abstract (fr)  
L'invention se rapporte à un axe de pivotement comportant au moins un pivot (3) en métal à au moins une de ses extrémités. Le métal est un alliage d'aluminium amagnétique afin de limiter sa sensibilité aux champs magnétiques et au moins la surface externe (5) de l'au moins un des deux pivots (3) est durcie en profondeur par rapport au reste de l'axe selon une profondeur prédéterminée afin de durcir le ou les pivots (3). L'invention concerne le domaine des mouvements d'horlogerie.

IPC 8 full level  
**G04B 1/16** (2006.01); **G04B 13/02** (2006.01); **G04B 15/14** (2006.01); **G04B 17/32** (2006.01); **G04B 43/00** (2006.01)

CPC (source: EP RU US)  
**C22C 21/10** (2013.01 - EP); **G04B 1/00** (2013.01 - RU); **G04B 1/16** (2013.01 - EP US); **G04B 13/02** (2013.01 - EP US);  
**G04B 15/14** (2013.01 - EP US); **G04B 17/32** (2013.01 - EP US); **G04B 43/007** (2013.01 - EP US); **G04D 3/0069** (2013.01 - US)

Citation (applicant)  
• FR 2015873 A1 19700430 - INST REINHARD STRAUMANN, et al  
• EP 2757423 A1 20140723 - OMEGA SA [CH]

Citation (search report)  
• [Y] CH 707504 A2 20140731 - OMEGA SA [CH]  
• [Y] US 2004231159 A1 20041125 - SHIBUYA YOSHITSUGU [JP], et al  
• [AD] EP 2757423 A1 20140723 - OMEGA SA [CH]  
• [A] EP 2680090 A1 20140101 - NIVAROX SA [CH]  
• [A] CH 338767 A 19590531 - BRAC AG UND JEAN BUGNON [CH]  
• [A] CH 240641 A 19460115 - COLOMB HENRI [CH]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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JP 2018013480 A 20180125; JP 6543659 B2 20190710; RU 2017125568 A 20190118; RU 2017125568 A3 20201112; RU 2752293 C2 20210726;  
US 11131965 B2 20210928; US 2018024499 A1 20180125

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**EP 16180228 A 20160719**; CN 201710584232 A 20170718; HK 18107787 A 20180615; JP 2017135240 A 20170711;  
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