

Title (en)
Gear method for a clock piece

Title (de)
Verzahnungsverfahren für Uhrwerk

Title (fr)
Procédé d'engrenage pour pièce d'horlogerie

Publication
EP 2154582 A1 20100217 (FR)

Application
EP 08162475 A 20080815

Priority
EP 08162475 A 20080815

Abstract (en)
The system (1) has a drive pinion (5) and a sprocket (7) mounted coaxially with respect to a pivoting axle (3). An attachment device (21) is placed between the pinion and the sprocket to avoid relative displacement of the sprocket with respect to the pinion. The device includes a footprint (23) having shape corresponding to a section of the pinion. The axle and the pinion are made of metallic material, where the system is made of silicon-metal, and the sprocket is made of microunable material selected from a group consisting of crystalline silicon, crystalline alumina and crystalline silica. An independent claim is also included for a method for fabrication of a watch element i.e. sprocket, made up of microunable material.

Abstract (fr)
L'invention se rapporte à un système comprenant un pignon (5) et une roue dentée (7) montés coaxialement par rapport à un axe pivotant (3). Selon l'invention, le système d'engrenage (1) comporte un dispositif d'attache (21) entre ledit pignon et ladite roue afin d'éviter le déplacement relatif de l'un par rapport à l'autre. L'invention se rapporte également aux procédés de fabrication de la roue dentée (7) et de montage final dudit système d'engrenage (1). L'invention concerne le domaine des pièces d'horlogerie.

IPC 8 full level
G04B 13/02 (2006.01); **B81C 1/00** (2006.01); **G04D 3/00** (2006.01)

CPC (source: EP KR US)
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Citation (search report)
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AL BA MK RS

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EP 08162475 A 20080815; CN 200980131641 A 20090723; EP 09806405 A 20090723; EP 2009059477 W 20090723; HK 12100380 A 20120112; JP 2011522460 A 20090723; KR 20117003449 A 20090723; RU 2011109457 A 20090723; TW 98125412 A 20090728; US 200913059216 A 20090723