

Title (en)  
TIMEPIECE COMPONENT WITH CERAMIC NON-MAGNETIC ARBOURED PORTION

Title (de)  
UHRWERKSKOMPONENTE MIT NICHT MAGNETISCHEM WELLENTEIL AUS KERAMIK

Title (fr)  
COMPOSANT D'HORLOGERIE AVEC PARTIE ARBREE AMAGNETIQUE EN CERAMIQUE

Publication  
**EP 3594757 A1 20200115 (FR)**

Application  
**EP 18182666 A 20180710**

Priority  
EP 18182666 A 20180710

Abstract (en)  
[origin: JP2020008572A] To provide an alternative to traditional timepiece wheel sets having steel arbors, and to combine perfect geometry with excellent durability. SOLUTION: A timepiece component is provided, including a shaft-like portion 2 having at least one pivot 3 about a pivot axis D, the shaft-like portion 2 being made of at least a constituent material of a ceramic or similar non-magnetic-type material. The shaft-like portion 2 includes a plurality of recesses 7 evenly arranged or regularly distributed about the pivot axis D, and has its center of inertia on the pivot axis D. The shaft-like portion 2 also includes a collar 9 forming its largest diameter with respect to the pivot axis D, where the collar 9 includes a parting line 90 of the shaft-like portion 2, the parting line 90 being substantially perpendicular to the pivot axis D such that the recesses 7 pass right through the collar 9. At least one of the recesses 7 has an injection point 8 for the material. SELECTED DRAWING: Figure 2

Abstract (fr)  
Composant (1) d'horlogerie comportant une partie arbrée (2) comportant au moins un pivot (3) autour d'un axe de pivot (D), au moins le matériau constitutif de ladite partie arbrée (2) étant un matériau amagnétique de type céramique ou similaire, ladite partie arbrée (2) comporte une pluralité d'évidements (7) équilibrés ou répartis régulièrement autour dudit axe de pivot (D), et a son centre d'inertie sur ledit axe de pivot (D), et ladite partie arbrée (2) comporte une collerette (9) constituant son plus grand diamètre par rapport audit axe de pivot (D), laquelle collerette (9) comporte un plan de joint (90) de ladite partie arbrée (2), lequel plan de joint (90) est sensiblement perpendiculaire audit axe de pivot (D), ladite collerette (9) est traversée par lesdits évidements (7), et au moins un dit évidement (7) renferme un point d'injection (8) dudit matériau.

IPC 8 full level  
**G04B 13/02** (2006.01); **G04B 43/00** (2006.01); **G04D 3/00** (2006.01); **G04D 3/02** (2006.01)

CPC (source: CN EP US)  
**G04B 13/02** (2013.01 - EP US); **G04B 13/022** (2013.01 - US); **G04B 13/025** (2013.01 - US); **G04B 17/063** (2013.01 - CN);  
**G04B 43/00** (2013.01 - EP); **G04D 3/0084** (2013.01 - EP); **G04D 3/0254** (2013.01 - EP)

Citation (search report)  
• [YA] EP 3258325 A1 20171220 - ROLEX SA [CH]  
• [YA] FR 1438887 A 19660513 - TISSOT HORLOGERIE

Cited by  
EP4386485A1; WO2024074517A1

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

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**EP 3594757 A1 20200115**; **EP 3594757 B1 20210526**; CN 110703579 A 20200117; CN 110703579 B 20210820; JP 2020008572 A 20200116;  
JP 6847165 B2 20210324; US 11500333 B2 20221115; US 2020019119 A1 20200116

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**EP 18182666 A 20180710**; CN 201910619300 A 20190710; JP 2019118231 A 20190626; US 201916436987 A 20190611