

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

Title (de)
UHRWERKSKOMPONENTE MIT NICHT MAGNETISCHEM WELLENTAIL AUS KERAMIK

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

Publication
EP 3594757 B1 20210526 (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

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)

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

DOCDB simple family (publication)
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

DOCDB simple family (application)
EP 18182666 A 20180710; CN 201910619300 A 20190710; JP 2019118231 A 20190626; US 201916436987 A 20190611