

Title (en)
MICROMECHANICAL CLOCKWORK PART

Title (de)
MIKROMECHANISCHES UHRWERKTEIL

Title (fr)
PIÈCE DE MICROMÉCANIQUE HORLOGÈRE

Publication
EP 3750010 A1 20201216 (FR)

Application
EP 19707492 A 20190204

Priority
• EP 18155609 A 20180207
• IB 2019050875 W 20190204

Abstract (en)
[origin: WO2019155347A1] The micromechanical clockwork part (1) is cut from a plate-like silicon substrate. The cut edges of the part comprise portions intended to serve as contact surfaces arranged to slide against corresponding contact zones of another micromechanical part in a clockwork piece. The cut edges have a ribbed surface comprising an alternating set of ribs (21a) and furrows (23a), the ribs and the furrows being straight and each contained in a plane parallel to the plate. Moreover, the ribs and furrows which the cut edges have form a stepped pattern on the cut edge, with first intervals (25a) in which the spacing separating the ribs from one another is equal to a first distance, and at least one second interval (27a) in which the spacing between the ribs is equal to a second distance different from the first distance.

IPC 8 full level
G04D 3/00 (2006.01); **G04B 15/14** (2006.01)

CPC (source: EP US)
G04B 15/08 (2013.01 - US); **G04B 15/14** (2013.01 - EP US); **G04B 31/08** (2013.01 - EP); **G04D 3/0069** (2013.01 - US);
G04D 3/0087 (2013.01 - EP)

Citation (search report)
See references of WO 2019155347A1

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)
WO 2019155347 A1 20190815; CN 111684364 A 20200918; CN 111684364 B 20211019; EP 3750010 A1 20201216; EP 3750010 B1 20220119;
JP 2021513069 A 20210520; JP 7204761 B2 20230116; US 11829107 B2 20231128; US 2021034015 A1 20210204

DOCDB simple family (application)
IB 2019050875 W 20190204; CN 201980012512 A 20190204; EP 19707492 A 20190204; JP 2020542404 A 20190204;
US 201916968056 A 20190204