

Title (en)
Polygonal hairspring for a timepiece resonator

Title (de)
Polygonale Spirale für Schwinger einer Uhr

Title (fr)
Spiral polygonal pour un résonateur horloger

Publication
EP 2887152 A3 20160608 (FR)

Application
EP 14193409 A 20141117

Priority
• EP 13197318 A 20131216
• EP 14193409 A 20141117

Abstract (en)
[origin: CN204389879U] The utility model relates to a hairspring (1, 21, 41 and 61) used for a clock resonator. The hairspring comprises a band (3, 23, 43 and 63) winding itself and forming a plurality of loops (S1, S2, S'1, S'2, S3 and Sint). According to the hairspring used for clock resonator, the band (3, 23, 43 and 63) is formed by a series of integrated prism portions (P1, P2, Px, P'x, Py, P'y and Pz), one of two opposite faces (Fint and Fext) is formed by a series of integrated rectangular portions to form a polygonal hairspring (1, 21, 41 and 61). The utility model further relates to at least clock comprising the hairspring.

IPC 8 full level
G04B 17/06 (2006.01)

CPC (source: EP US)
G04B 17/063 (2013.01 - US); **G04B 17/066** (2013.01 - EP US)

Citation (search report)
• [XA] EP 2407831 A1 20120118 - ROLEX SA [CH]
• [X] EP 2233989 A1 20100929 - MANUF ET FABRIQUE DE MONTRES E [CH]
• [A] FR 1546209 A 19681115 - HOLDING FAVRE LEUBA S A

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)
EP 2884346 A1 20150617; CN 104714393 A 20150617; CN 104714393 B 20180102; CN 204389879 U 20150610; EP 2887152 A2 20150624; EP 2887152 A3 20160608; EP 2887152 B1 20230104; HK 1211710 A1 20160527; JP 2015118086 A 20150625; JP 5978282 B2 20160824; US 2015168916 A1 20150618; US 9268307 B2 20160223

DOCDB simple family (application)
EP 13197318 A 20131216; CN 201410784427 A 20141216; CN 201420797799 U 20141216; EP 14193409 A 20141117; HK 15112379 A 20151216; JP 2014248748 A 20141209; US 201414553298 A 20141125