

Title (en)
INTERACTION BETWEEN TWO TIMEPIECE COMPONENTS

Title (de)
INTERAKTION ZWISCHEN ZWEI UHRENKOMPONENTEN

Title (fr)
INTERACTION ENTRE DEUX COMPOSANTS D'HORLOGERIE

Publication
EP 3198344 A1 20170802 (FR)

Application
EP 15729862 A 20150619

Priority
• EP 14186296 A 20140925
• EP 2015063872 W 20150619

Abstract (en)
[origin: WO2016045806A1] Timepiece mechanism (1000) comprising a first component (1) and a second component (2) arranged to engage with each other in a relative movement along a trajectory at an interface zone (3), wherein a first track (100) of the first component (1) comprises magnetic and/or electrostatic activation components (110), arranged to exert a contactless force on the complementary magnetic and/or electrostatic activation components (210) that comprise a second track (200) belonging to the second component (2), wherein all along a relatively monotonic movement of the second track (200) with respect to the first course (100), the energy of interaction between the first component (1) and the second component (2) has a variable gradient, with at least one discontinuity position of the gradient which corresponds to a variation of said contactless force, said discontinuity position of the gradient corresponding, in one variant, to a sudden variation of the contactless force.

IPC 8 full level
G04C 3/10 (2006.01); **G04B 13/00** (2006.01); **G04B 13/02** (2006.01); **G04B 15/00** (2006.01); **G04B 17/00** (2006.01); **G04B 17/04** (2006.01); **G04B 18/00** (2006.01); **G04B 21/06** (2006.01); **G04B 23/02** (2006.01); **G04C 3/04** (2006.01); **G04C 5/00** (2006.01); **H02K 7/065** (2006.01)

CPC (source: EP US)
G04B 15/08 (2013.01 - US); **G04B 15/14** (2013.01 - US); **G04C 3/047** (2013.01 - EP US); **G04C 3/105** (2013.01 - EP US); **G04C 5/005** (2013.01 - EP US)

Citation (search report)
See references of WO 2016045806A1

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 2016045806 A1 20160331; **WO 2016045806 A4 20160616**; CN 106716264 A 20170524; CN 106716264 B 20190716; EP 3198344 A1 20170802; EP 3198344 B1 20190424; JP 2017524929 A 20170831; JP 6438112 B2 20181212; RU 2017114124 A 20181025; RU 2017114124 A3 20190117; US 10459406 B2 20191029; US 2017123379 A1 20170504

DOCDB simple family (application)
EP 2015063872 W 20150619; CN 201580052031 A 20150619; EP 15729862 A 20150619; JP 2017502155 A 20150619; RU 2017114124 A 20150619; US 201515317313 A 20150619