

Title (en)
High-performance bi-axial escapement, or HPBE

Title (de)
Zweiachsiges Hochleistungsauspuffsystem, d.h. EBHP

Title (fr)
Echappement Bi-axial à haute performance, soit EBHP

Publication
EP 2487546 A1 20120815 (FR)

Application
EP 11405210 A 20110211

Priority
EP 11405210 A 20110211

Abstract (en)
The escapement (1) has a first escapement mobile part (2) provided with a first set of escapement teeth (22) and a second escapement mobile part (3) provided with a second set of escapement teeth (32), and an anchor (4) carrying first and second stop pallet stones (42, 43). Coupling wheels (29, 39) mechanically couple the first escapement mobile part to the second escapement mobile part. A roller (5) comprises a first impulse pallet stone (52) co-operating with the first set of escapement teeth, and a second impulse pallet stone (53) co-operating with the second set of escapement teeth. An independent claim is also included for a timepiece comprising first and second barrels.

Abstract (fr)
Echappement (1) comprenant : - un plateau (5), - un premier mobile d'échappement (2) comprenant des premières dents d'échappement (22) et un deuxième mobile d'échappement (3) comprenant des deuxièmes dents d'échappement (32), - un moyen (29, 39) de couplage mécanique du premier mobile d'échappement au deuxième mobile d'échappement, et - une ancre (4) portant des palettes (42, 43).

IPC 8 full level
G04B 15/06 (2006.01); **G04B 15/08** (2006.01); **G04B 15/14** (2006.01)

CPC (source: EP US)
G04B 15/06 (2013.01 - EP US); **G04B 15/08** (2013.01 - EP US); **G04B 15/14** (2013.01 - EP US)

Citation (applicant)
EP 1983389 A1 20081022 - ETA SA MFT HORLOGERE SUISSE [CH]

Citation (search report)
• [XY] EP 0018796 A2 19801112 - DANIELS GEORGE
• [I] WO 9964936 A1 19991216 - ROLEX MONTRES [CH], et al
• [I] CH 27961 D
• [I] EP 1041459 A1 20001004 - NARDIN ULYSSE SA [CH]
• [I] EP 1367462 A1 20031203 - NARDIN ULYSSE SA [CH]
• [Y] CH 693516 A5 20030915 - EXIDEL S A [CH]
• [AD] EP 1983389 A1 20081022 - ETA SA MFT HORLOGERE SUISSE [CH]

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CH714200A1; EP4194959A1; CN112368648A; EP4105731A1; WO2016001740A3; EP3479175B1

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 2487546 A1 20120815; EP 2487546 B1 20210630; JP 2012168172 A 20120906; JP 5972586 B2 20160817; US 2012207000 A1 20120816; US 8562205 B2 20131022

DOCDB simple family (application)
EP 11405210 A 20110211; JP 2012019577 A 20120201; US 201213370510 A 20120210