

Title (en)
OSCILLATOR WITH A DETENT ESCAPEMENT

Title (de)
OSZILLATOR MIT EINER CHRONOMETERHEMMUNG

Title (fr)
OSCILLATEUR AVEC UN ECHAPPEMENT A DETENTE

Publication
EP 3059641 B1 20210811 (FR)

Application
EP 16153576 A 20160201

Priority
• EP 15155874 A 20150220
• EP 16153576 A 20160201

Abstract (en)
[origin: JP2016153789A] PROBLEM TO BE SOLVED: To provide an oscillator comprising a resonator of the inertia-elasticity type, cooperating with a detent escapement, which is reliable, compact and not subject to tripping and whose machines are very precisely positioned in relation to each other. SOLUTION: The invention relates to an oscillator 101 including a resonator 105 of the inertia-elasticity type cooperating with a detent escapement including a detent 107 cooperating with an escape wheel 109. The resonator 105 is in one piece and includes an inertia member and a first flexible structure providing the elasticity and forming a virtual pivot axis of the resonator 105, and the detent 107 is in one piece and includes an unlocking spring and a second flexible structure forming a virtual pivot axis of the detent 107. SELECTED DRAWING: Figure 7

IPC 8 full level
G04B 15/14 (2006.01); **G04B 17/04** (2006.01)

CPC (source: CN EP US)
G04B 15/00 (2013.01 - CN); **G04B 15/06** (2013.01 - EP US); **G04B 15/14** (2013.01 - CN EP US); **G04B 17/04** (2013.01 - US);
G04B 17/045 (2013.01 - EP US); **G04B 43/002** (2013.01 - EP); **G04B 17/10** (2013.01 - US)

Cited by
EP3686693A1; CN109426127A; CH714992A1; CN110023846A; US11650544B2; US11520289B2

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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 3059641 A1 20160824; **EP 3059641 B1 20210811**; CH 710759 A2 20160831; CN 105911845 A 20160831; CN 105911845 B 20181002;
JP 2016153789 A 20160825; JP 6209230 B2 20171004; KR 101799666 B1 20171120; KR 20160102353 A 20160830;
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