Title (en)
Direct-pulse escapement for timepiece

Title (de)
Direktimpulshemmung für Uhren

Title (fr)
Echappement à impulsions directes pour pièce d'horlogerie

Publication
EP 1983388 A1 20081022 (FR)

Application
EP 07106376 A 20070418

Priority
EP 07106376 A 20070418

Abstract (en)
The escapement has an escape wheel set (1) driven by a gear train, and a balance (2) associated with a balance spring. A balance launching unit uses the energy developed by the wheel set for launching the balance periodically. A wheel set locking unit locks the wheel set temporarily after each launch of the balance. Impulse pallet stones (3, 4) are secured to the balance and cooperate directly with teeth of the wheel set. A brake lever (5) is driven periodically by the balance, where the brake lever is provided with locking pallet stones (6, 7) cooperating with the teeth of the wheel set.

Abstract (fr)
L'échappement pour pièce d'horlogerie comprend des première (3) et seconde (4) palettes d'impulsion solidaires du balancier (2) coopérant directement avec les dents dont est pourvu le mobile d'échappement (1) et un bloqueur (5) entraîné périodiquement par le balancier, ce bloqueur étant pourvu de première (6) et seconde (7) palettes de repos arrangées pour coopérer avec les dents du mobile d'échappement (1)

IPC 8 full level
G04B 15/06 (2006.01)

CPC (source: EP US)
G04B 15/08 (2013.01 - EP US); **G04B 17/063** (2013.01 - EP US)

Citation (search report)
- [X] EP 1045297 A1 20001018 - OMEGA SA [CH]
- [X] US 1091261 A 19140324 - WALKER WILLIAM E [US]
- [X] US 594446 A 18971130
- [A] CH 4698 A 18921015 - KNECHT HERMANN [DE]

Cited by
EP2871535A1; CH716212A1; EP2363762A1; EP2363763A3; CH712052A1; US8500323B2; WO2017125194A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1983388 A1 20081022; **EP 1983388 B1 20100120**; AT E456078 T1 20100215; CN 101290504 A 20081022; CN 101290504 B 20130403; DE 602007004446 D1 20100311; HK 1125190 A1 20090731; JP 2008268206 A 20081106; JP 5350667 B2 20131127; US 2008259738 A1 20081023; US 7708455 B2 20100504

DOCDB simple family (application)
EP 07106376 A 20070418; AT 07106376 T 20070418; CN 200810109291 A 20080418; DE 602007004446 T 20070418; HK 09103291 A 20090407; JP 2008105911 A 20080415; US 10544708 A 20080418