

Title (en)  
OSCILLATOR FOR TIMEPIECE MOVEMENT

Title (de)  
OSZILLATOR FÜR UHRWERK

Title (fr)  
OSCILLATEUR POUR MOUVEMENT HORLOGER

Publication  
**EP 3234701 A1 20171025 (FR)**

Application  
**EP 15817822 A 20151218**

Priority  
• EP 14199074 A 20141218  
• EP 2015080679 W 20151218

Abstract (en)  
[origin: WO2016097384A1] The invention concerns an oscillator (1) for a timepiece movement, comprising a staff (12) rigidly connected to a balance (4) carrying first and second bipolar magnets (20, 40) spaced apart from the staff (12) and capable, depending on the angular position of the balance (4), of being positioned alternately within range of a magnetic field produced by a fixed bipolar magnet (28), the latter being located on the trajectory of the first and second bipolar magnets (20, 40) and being arranged in such a way that, when one of the bipolar magnets (20, 40) approaches the fixed bipolar magnet (28), identical polarities are located opposite each other in order to produce a repulsive force. The oscillator further comprises a pallet assembly (32) and an escape wheel (30) for establishing a kinematic connection between a source of energy of the timepiece movement and the balance staff (12), and arranged in such a way that the balance (4) is capable of having a sustained periodic oscillating movement of an amplitude greater than 90 degrees.

IPC 8 full level  
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Citation (search report)  
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