

Title (en)  
OPTIMISED MAGNETO-MECHANICAL TIMEPIECE ESCAPEMENT MECHANISM

Title (de)  
OPTIMIERTER MAGNETOMECHANISCHER UHRHEMMUNGSMECHANISMUS

Title (fr)  
MECANISME D'ECHAPPEMENT D'HORLOGERIE MAGNETO-MECANIQUE OPTIMISE

Publication  
**EP 3627242 B1 20210721 (FR)**

Application  
**EP 18195530 A 20180919**

Priority  
EP 18195530 A 20180919

Abstract (en)  
[origin: US2020089168A1] An oscillator includes a resonator, which has an inertial mass returned by an elastic return and carries entry and exit pallets cooperating with teeth of an escape wheel each provided with a magnet. Each pallet includes a magnetic arrangement, with an annular sector, centred on the axis of oscillation of the resonator, defining a first magnetic barrier area extending above and/or below a mechanical pallet-stone of the entry pallet or exit pallet, over the entire length of this mechanical pallet-stone acting as support for the teeth during the supplementary arc, in order to form a magnetic cylinder escapement mechanism.

IPC 8 full level  
**G04C 5/00** (2006.01)

CPC (source: CN EP US)  
**G04B 15/04** (2013.01 - US); **G04B 17/045** (2013.01 - EP); **G04C 3/04** (2013.01 - US); **G04C 5/005** (2013.01 - CN EP US)

Cited by  
CN114624982A; EP3910425A1; EP3910426A1; US11934150B2

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 3627242 A1 20200325; EP 3627242 B1 20210721**; CN 110928170 A 20200327; CN 110928170 B 20210827; JP 2020046426 A 20200326; JP 6796697 B2 20201209; US 11567456 B2 20230131; US 2020089168 A1 20200319

DOCDB simple family (application)  
**EP 18195530 A 20180919**; CN 201910884458 A 20190919; JP 2019165896 A 20190912; US 201916571428 A 20190916