

Title (en)
TIMEPIECE COMPRISING A TOURBILLON

Title (de)
UHR, DIE EIN TOURBILLON UMFASST

Title (fr)
PIECE D'HORLOGERIE COMPRENANT UN TOURBILLON

Publication
EP 3579058 B1 20210915 (FR)

Application
EP 19173161 A 20190507

Priority
EP 18176488 A 20180607

Abstract (en)
[origin: JP2019211479A] To provide a solution to the problem with a conventional tourbillon.SOLUTION: A timepiece includes a tourbillon including a carriage 6 that bears a sprung balance 14 and a magnetic escapement device 18. The magnetic escapement device includes an escape wheel set, formed of at least one annular magnetic structure 26, and at least one magnetic element 33 coupled with the magnetic structure and having an oscillating movement that is synchronous with the oscillation of a mechanical resonator. A mechanical escapement is arranged to alternately have energy accumulation phases, from a conversion of mechanical energy supplied by a barrel into magnetic potential energy in a magnetic escapement, and transfer phases of energy accumulated in the magnetic escapement to a magnetic resonator.SELECTED DRAWING: Figure 2

IPC 8 full level
G04B 15/06 (2006.01); **G04B 17/28** (2006.01)

CPC (source: CN EP US)
G04B 1/22 (2013.01 - US); **G04B 15/06** (2013.01 - EP); **G04B 15/14** (2013.01 - US); **G04B 17/285** (2013.01 - CN EP US);
G04B 45/02 (2013.01 - US)

Cited by
CN115480473A; EP4105734A3

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 3579058 A1 20191211; **EP 3579058 B1 20210915**; CN 110579954 A 20191217; CN 110579954 B 20210618; JP 2019211479 A 20191212;
JP 6871973 B2 20210519; US 11640141 B2 20230502; US 2019377302 A1 20191212

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EP 19173161 A 20190507; CN 201910485842 A 20190605; JP 2019103549 A 20190603; US 201916410367 A 20190513