Title (en)
CHIME AND MELODY MODE SELECTOR FOR WATCH OR TIMEPIECE

Title (de)
MODUSWAHLSCHALTER FÜR SCHLAGWERK, UND MELODIE FÜR ARMBANDUHR ODER ANDERE UHR

Title (fr)
SÉLECTEUR DE MODE DE SONNERIE ET DE MÉLODIE POUR MONTRE OU PIÈCE D'HORLOGERIE

Publication
EP 3447591 B1 20210811 (FR)

Application
EP 18180053 A 20180627

Priority
EP 17182977 A 20170725

Abstract (en)
[origin: CN109298616A] The invention relates to a chiming mechanism (100) for a watch (1000) comprising: an hourly snail wheel (190) driven by a movement (200), a chiming wheel set (2) comprising a ratchet (22) and a chiming rack pinion (24), a hourly rack (20) for reading the snail wheel (19) and driving the pinion (24) to pivot, a catch pawl (85) that is set to move to drive the ratchet (22) each time of chiming, a mode selection mechanism (9) configured to select a specific chiming mode by a user in different chiming modes including a silent mode and define the angular position of a cam (90) having an outer contour (98). In the silent mode, a maximum radius area (98S) pushes a beak (61) of a mute lever (60) backwards to orient the mute lever to a position where the a main arm (64) of the mute lever moves thecatch pawl away from the ratchet, thus disabling each passing chiming.

IPC 8 full level
G04B 21/10 (2006.01); **G04B 21/06** (2006.01); **G04B 21/12** (2006.01); **G04B 23/02** (2006.01)

CPC (source: CN EP KR RU US)
G04B 9/02 (2013.01 - EP); **G04B 21/00** (2013.01 - CN); **G04B 21/02** (2013.01 - CN); **G04B 21/022** (2013.01 - CN);
G04B 21/04 (2013.01 - CN KR); **G04B 21/06** (2013.01 - EP KR RU US); **G04B 21/10** (2013.01 - EP KR US); **G04B 21/12** (2013.01 - CN EP US);
G04B 23/026 (2013.01 - EP US); **G04B 23/12** (2013.01 - US); **G10F 1/06** (2013.01 - CN)

Designated contracting state (EPC)
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 3435175 A1 20190130; CN 109298616 A 20190201; CN 109298616 B 20200717; EP 3447591 A1 20190227; EP 3447591 B1 20210811;
JP 2019028069 A 20190221; JP 6589019 B2 20191009; KR 102136926 B1 20200723; KR 20190011689 A 20190207;
RU 2018127067 A 20200127; RU 2018127067 A3 20210914; RU 2767294 C2 20220317; US 10890878 B2 20210112;
US 2019033789 A1 20190131

DOCDB simple family (application)
EP 17182977 A 20170725; CN 201810817840 A 20180724; EP 18180053 A 20180627; JP 2018137667 A 20180723;
KR 20180085776 A 20180724; RU 2018127067 A 20180724; US 201816035900 A 20180716