

Title (en)

STRIKING OR MUSICAL WATCH WITH AT LEAST ONE ACOUSTIC RADIATION MEMBRANE, AND METHOD OF MANUFACTURING SAID MEMBRANE

Title (de)

ARMBANDUHR MIT SCHLAGWERK ODER MUSIK, DIE MIT MINDESTENS EINER SCHALLABSTRAHLMEMBRAN AUSGESTATTET IST, UND HERSTELLUNGSVERFAHREN DIESER MEMBRAN

Title (fr)

MONTRE A SONNERIE OU MUSICALE MUNIE D'AU MOINS UNE MEMBRANE DE RAYONNEMENT ACOUSTIQUE, ET PROCÉDÉ DE FABRICATION DE LA MEMBRANE

Publication

EP 3644132 B1 20220608 (FR)

Application

EP 18202869 A 20181026

Priority

EP 18202869 A 20181026

Abstract (en)

[origin: US2020133202A1] A striking watch is provided with an acoustic radiating membrane made of metallic material or amorphous metal. The membrane takes the form of a loop with walls of a certain thickness to be connected by a first edge portion to a middle part of a watch case and by a second edge portion to a bezel fixed to a watch crystal. The bezel connected to crystal is movable with respect to the case middle via the membrane during the vibration of membrane once a sound is generated by a watch striking mechanism in the watch case. The membrane is configured with a wall of a specific thickness in an active region dependent on the mass of the bezel connected to the crystal, to obtain a frequency f_0 of a first vibration mode.

IPC 8 full level

G04B 21/08 (2006.01); **G04B 23/02** (2006.01); **G04B 37/00** (2006.01); **G04B 21/00** (2006.01)

CPC (source: CN EP US)

G04B 21/00 (2013.01 - EP); **G04B 21/06** (2013.01 - US); **G04B 21/08** (2013.01 - CN EP US); **G04B 23/028** (2013.01 - EP); **G04B 37/0075** (2013.01 - CN EP); **G04B 39/00** (2013.01 - US)

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 3644132 A1 20200429; **EP 3644132 B1 20220608**; CN 111103783 A 20200505; CN 111103783 B 20210608; JP 2020076749 A 20200521; JP 6783367 B2 20201111; US 11640142 B2 20230502; US 2020133202 A1 20200430

DOCDB simple family (application)

EP 18202869 A 20181026; CN 201911014845 A 20191024; JP 2019184901 A 20191008; US 201916598258 A 20191010