

Title (en)

Abnehmbare akustische Membran für eine Armbanduhr mit Spieluhr oder Schlagwerk, und Armbanduhr umfassende diese Membran

Title (de)

Removable acoustic membrane for a musical or chiming watch and watch including same

Title (fr)

Membrane amovible de rayonnement acoustique pour une montre musicale ou à sonnerie, et montre la comprenant

Publication

EP 2503417 B1 20160316 (FR)

Application

EP 11159275 A 20110322

Priority

EP 11159275 A 20110322

Abstract (en)

[origin: EP2503417A1] The membrane has a central base part (4) comprising a T-shaped retaining member (7) that is engaged with an inner stop member (27) at a back cover (14) of a watch case to limit bending of the membrane following excess pressure or vacuum pressure according to environmental conditions, where the stop member is formed of two hook-shaped catches, and the membrane is in the form of dome. The retaining member comprises a stem fixed to the base part and a rectangular tongue fixed to the stem parallel to the base part. The retaining member is integral with the base part of the membrane. Independent claims are also included for the following: (1) a watch case (2) a musical watch or a striking watch (3) a method for assembling a removable acoustic radiating membrane.

IPC 8 full level

G04B 37/00 (2006.01); **G04G 17/02** (2006.01)

CPC (source: EP US)

G04B 21/08 (2013.01 - EP US); **G04B 23/028** (2013.01 - EP US); **G04B 37/0075** (2013.01 - EP US); **G04G 17/02** (2013.01 - EP US); **Y10T 29/49579** (2015.01 - EP US)

Cited by

EP3009895A1; EP2881806A1; US9658601B2; US9360843B2; WO2015043905A1; US9417611B2

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 2503417 A1 20120926; EP 2503417 B1 20160316; CH 704673 A2 20120928; CN 102692867 A 20120926; CN 102692867 B 20150826; HK 1176692 A1 20130802; JP 2012198211 A 20121018; JP 5616388 B2 20141029; US 2012243389 A1 20120927; US 8770833 B2 20140708

DOCDB simple family (application)

EP 11159275 A 20110322; CH 4852011 A 20110322; CN 201210075493 A 20120321; HK 13103544 A 20130321; JP 2012065121 A 20120322; US 201213424650 A 20120320