

Title (en)  
Musical watch bezel with improved acoustic performance

Title (de)  
Spieluhrlunette mit verbesserter akustischer Leistung

Title (fr)  
Lunette de montre musicale à performance acoustique améliorée

Publication  
**EP 3002639 A1 20160406 (FR)**

Application  
**EP 14187235 A 20141001**

Priority  
**EP 14187235 A 20141001**

Abstract (en)  
[origin: US2016098013A1] Watch bezel for a musical watch, directly carrying a gong or forming a gong, this watch bezel including a toroid receiving a watch crystal, and a thin lug perpendicular to the plane of the toroid including an internal thread for securing to a structure, a case of the musical watch includes a case middle and carries this watch bezel indirectly bearing on a main surface of the case middle with a first O-ring sealing gasket, the case middle and the watch bezel are held securely to each other in a position where, in the free state of the watch bezel and with no excess pressure, the watch bezel is at a distance from the main surface having a value corresponding to a predetermined and non-zero play.

Abstract (fr)  
Lunette (1) pour montre musicale (100). Ladite lunette (1) porte directement un timbre (6) ou constitue un timbre (6). Ladite lunette (1) comporte un tore (18) recevant une glace de montre (2), et une patte (11) fine perpendiculaire au plan dudit tore (18) comportant des moyens de fixation (17) à une structure. Boîte (10) comportant une carrure (4). Ladite boîte (10) porte une telle lunette (1) en appui indirect sur une surface principale (40) de ladite carrure (4) par l'intermédiaire d'un premier joint torique d'étanchéité (51), ladite carrure (4) et ladite lunette (1) sont maintenues solidairement dans une position où, à l'état libre de ladite lunette (1) en l'absence de surpression, ladite lunette (1) est distante de ladite surface principale (40) d'une valeur correspondant à un jeu (J) prédéterminé et non nul. Montre (100) comportant une telle boîte (10).

IPC 8 full level  
**G04B 37/00** (2006.01)

CPC (source: EP US)  
**G04B 19/283** (2013.01 - US); **G04B 21/00** (2013.01 - US); **G04B 21/08** (2013.01 - US); **G04B 23/005** (2013.01 - US);  
**G04B 23/028** (2013.01 - US); **G04B 37/0075** (2013.01 - EP US); **G04B 39/00** (2013.01 - US)

Citation (applicant)  
EP 2367079 B1 20130116 - MONTRES BREQUET SA [CH]

Citation (search report)  
• [XA] CH 700102 A2 20100615 - PIGUET FREDERIC SA [CH]  
• [XA] WO 0036473 A1 20000622 - BUENTER SA [CH], et al  
• [X] EP 2228693 A1 20100915 - ROTH & GENTA HAUTE HORLOGERIE [CH]  
• [XA] CH 706079 B1 20130815 - RICHEMONT INT SA [CH]

Cited by  
EP3537230A1; CH716554A1; EP3537229A1; CN110231765A; CN110231766A; EP3623878A1; US11415945B2; US11449009B2

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3002639 A1 20160406**; **EP 3002639 B1 20180131**; CN 105487370 A 20160413; CN 105487370 B 20190315; HK 1223423 A1 20170728;  
JP 2016070939 A 20160509; JP 6082075 B2 20170215; US 2016098013 A1 20160407; US 9436161 B2 20160906

DOCDB simple family (application)  
**EP 14187235 A 20141001**; CN 201510639066 A 20150930; HK 16111553 A 20161004; JP 2015194286 A 20150930;  
US 201514863617 A 20150924