

Title (en)  
OPTIMISED MUSICAL PLUCKING DISK FOR TIMEPIECE

Title (de)  
OPTIMIERTE TASTENSCHIBE EINES SCHLAGWERKS FÜR UHR

Title (fr)  
DISQUE-CLAVIER DE SONNERIE OPTIMISÉ POUR PIÈCE D'HORLOGERIE

Publication  
**EP 2881936 A3 20160525 (FR)**

Application  
**EP 14188833 A 20141014**

Priority  
• EP 13196156 A 20131209  
• EP 14188833 A 20141014

Abstract (en)  
[origin: CN104698807A] A disc-vibration plate assembly (1) for a musical or striking timepiece (1000), including at least one disc (2) rotating about an axis (D) and provided with pins (3) projecting substantially parallel to this axis (D), and arranged to cooperate with strips (4) comprised in at least one vibration plate of this assembly (1), each pin including an actuation surface (30) arranged to cooperate with a complementary receiving surface of a corresponding strip (4) and the section of these strips of the vibration plate gradually increases from the shortest strip (4C) which is the highest pitched, to the longest strip which is the lowest pitched. The complementary receiving surface (40) includes an end edge (42), which, at the end of actuation of the strip (4), is on the same radius as a complementary end edge (32) comprised in the pin (3).

IPC 8 full level  
**G10F 1/06** (2006.01); **G04B 21/08** (2006.01); **G04B 23/00** (2006.01); **G04B 23/02** (2006.01)

CPC (source: CH EP US)  
**G04B 21/08** (2013.01 - CH EP US); **G04B 23/005** (2013.01 - EP US); **G04B 23/026** (2013.01 - EP US); **G04B 23/028** (2013.01 - EP US); **G04B 23/12** (2013.01 - CH); **G10F 1/06** (2013.01 - CH EP US); **G04B 23/12** (2013.01 - EP US)

Citation (search report)  
• [XA] US 2876670 A 19590310 - DUNCAN THEODORE R  
• [A] CH 704670 A2 20120928 - MONTRES BREQUET SA [CH]  
• [A] CH 405896 A 19660115 - JAKES FERNAND [CH]  
• [A] WO 2004090863 A2 20041021 - M H SEGAN LTD PARTNERSHIP [US]  
• [A] GB 888948 A 19620207 - MATTEL INC  
• [A] FR 1173343 A 19590224 - KNICKERBOCKER PLASTIC COMPANY  
• [A] CH 8631 A 18941215 - BRACHHAUSEN & RIESSNER [DE]

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 2881935 A1 20150610; EP 2881935 B1 20170712**; CH 708953 A2 20150615; CH 708953 B1 20171215; CN 104698807 A 20150610; CN 104698807 B 20170808; EP 2881936 A2 20150610; EP 2881936 A3 20160525; EP 2881936 B1 20171213; HK 1211349 A1 20160520; JP 2015114664 A 20150622; JP 6040211 B2 20161207; US 2015160616 A1 20150611; US 9182744 B2 20151110

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**EP 13196156 A 20131209**; CH 20292013 A 20131209; CN 201410738792 A 20141208; EP 14188833 A 20141014; HK 15112127 A 20151209; JP 2014235269 A 20141120; US 201414538945 A 20141112