

Title (en)  
CLEAVABLE PIECE OF A CLOCK OSCILLATOR

Title (de)  
ABTRENNBARES STÜCK EINES UHRENOSZILLATORS

Title (fr)  
PIÈCE SÉCABLE D'OSCILLATEUR D'HORLOGERIE

Publication  
**EP 3425458 A1 20190109 (FR)**

Application  
**EP 17180307 A 20170707**

Priority  
EP 17180307 A 20170707

Abstract (en)  
[origin: US2019011887A1] A timepiece oscillator structure includes at least one divisible unit, which includes at least one component which includes at least one flexible blade or at least one blade with necks, joining two main units, each more rigid than the flexible blade or blade with necks, where the divisible unit includes at least one gripping unit adjacent to at least one main unit to which it is connected by at least one divisible linkage which is designed in order to make possible the detachment of this gripping unit from the component when the component is fixed, with at least the particular main unit which is adjacent to the gripping unit, to a more rigid external element than the flexible blade or than the necks of the blade with necks.

Abstract (fr)  
Élément sécable (10) d'oscillateur d'horlogerie comportant au moins un composant (1) lequel comporte au moins une lame flexible (2) ou au moins une lame à cols (20), joignant deux blocs (3) chacun plus rigide que la lame flexible (2) ou lame à cols (20), où l'élément sécable (10) comporte au moins un élément de protection (4) contigu à au moins un bloc (3) auquel il est relié par au moins une liaison sécable (5) agencée pour permettre le détachement de cet élément de protection (4) d'avec le composant (1) quand le composant (1) est fixé, par l'intermédiaire au moins du bloc (3) particulier qui est contigu à l'élément de protection (4), à un élément externe (9) plus rigide que la lame flexible (2) ou que les cols de la lame à cols (20).

IPC 8 full level  
**G04D 3/00** (2006.01); **G04B 17/04** (2006.01)

CPC (source: CH CN EP US)  
**G04B 15/14** (2013.01 - CN); **G04B 17/045** (2013.01 - CH EP US); **G04B 17/06** (2013.01 - CN); **G04B 17/32** (2013.01 - CH); **G04B 31/02** (2013.01 - EP); **G04B 43/002** (2013.01 - EP); **G04D 3/0035** (2013.01 - CH EP US)

Citation (search report)

- [XA] WO 2016062889 A2 20160428 - RICHEMONT INT SA [CH]
- [A] CH 702708 B1 20110831 - SIGATEC S A [CH]
- [A] EP 3037893 A1 20160629 - PATEK PHILIPPE SA GENÈVE [CH]
- [A] EP 2104005 A1 20090923 - NIVAROX SA [CH]

Cited by  
EP3907565A1; EP3812843A1; EP3971655A1; US11693366B2; WO2021224804A1

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 3425458 A1 20190109**; CH 713960 A2 20190115; CH 713960 B1 20230831; CN 109212943 A 20190115; CN 109212943 B 20200825; EP 3451080 A1 20190306; EP 3451080 B1 20200729; JP 2019015731 A 20190131; JP 6546323 B2 20190717; US 11262702 B2 20220301; US 2019011887 A1 20190110; US 2021223741 A1 20210722

DOCDB simple family (application)  
**EP 17180307 A 20170707**; CH 8852017 A 20170707; CN 201810735775 A 20180706; EP 18178992 A 20180621; JP 2018128886 A 20180706; US 201816027799 A 20180705; US 202117220524 A 20210401