

Title (en)  
LOCKING DEVICE FOR A TIMEPIECE

Title (de)  
VERRIEGELUNGSVORRICHTUNG FÜR EINE UHR

Title (fr)  
DISPOSITIF DE BLOCAGE POUR L'HORLOGERIE

Publication  
**EP 3612896 A1 20200226 (FR)**

Application  
**EP 18719312 A 20180417**

Priority  
• EP 17166832 A 20170418  
• IB 2018052645 W 20180417

Abstract (en)  
[origin: WO2018193365A1] The invention relates to a locking device (8) for a timepiece, comprising first and second movable portions (8a', 8a"; 8s, 8t) kinematically connected to each other, the first movable portion (8a'; 8s) comprising a drive device (8h), and the second movable portion (8a'; 8t) comprising a stop device (8i); a rotary drive member (8f) intended to rotate in a single direction and arranged to cooperate with the drive device (8h) to move the first movable portion (8a'; 8s) and, hence, the second movable portion (8a'; 8t), in alternate opposite directions; and a rotating locking member (8g) intended to be tensioned and arranged to cooperate with the stop device (8i) such that it is locked by the second movable portion (8a"; 8t) and released at predetermined times by the movements of the second movable portion (8a"; 8t). The first movable portion (8a'; 8s) has an opening (8d) with a closed contour receiving the rotary drive member (8f), the wall of the opening defining the drive device (8h). This wall follows, over substantially 360°, the path of a tip of the rotary drive member (8f) in a guide linked to the first movable portion (8a'; 8s) during the rotation of the rotary drive member (8f), in order to protect the locking device (8) against impacts.

IPC 8 full level  
**G04B 1/12** (2006.01); **G04B 1/22** (2006.01); **G04B 17/04** (2006.01); **G04B 19/243** (2006.01); **G04B 21/02** (2006.01)

CPC (source: EP US)  
**G04B 1/12** (2013.01 - EP US); **G04B 1/22** (2013.01 - US); **G04B 15/10** (2013.01 - EP US); **G04B 17/04** (2013.01 - EP US); **G04B 19/2434** (2013.01 - EP US); **G04B 19/253** (2013.01 - US); **G04B 19/268** (2013.01 - US)

Citation (search report)  
See references of WO 2018193365A1

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)  
**WO 2018193365 A1 20181025**; CN 110622073 A 20191227; CN 110622073 B 20210727; CN 110892339 A 20200317; CN 110892339 B 20210525; EP 3612896 A1 20200226; EP 3612896 B1 20210714; EP 3612897 A1 20200226; EP 3612898 A1 20200226; EP 3612898 B1 20210331; JP 2020517921 A 20200618; JP 2020517922 A 20200618; JP 7096267 B2 20220705; TW 201842424 A 20181201; TW 201842425 A 20181201; TW 201843544 A 20181216; US 11675313 B2 20230613; US 2020117143 A1 20200416; US 2021096513 A1 20210401; WO 2018193364 A1 20181025; WO 2018193366 A1 20181025

DOCDB simple family (application)  
**IB 2018052645 W 20180417**; CN 201880025801 A 20180417; CN 201880025803 A 20180417; EP 18719311 A 20180417; EP 18719312 A 20180417; EP 18719313 A 20180417; IB 2018052644 W 20180417; IB 2018052646 W 20180417; JP 2019556658 A 20180417; JP 2019556659 A 20180417; TW 107113047 A 20180417; TW 107113048 A 20180417; TW 107113050 A 20180417; US 201816603735 A 20180417; US 201816603864 A 20180417