

Title (en)  
UNIVERSAL DEVICE FOR PREPARING A WATCH

Title (de)  
UNIVERSALVORRICHTUNG ZUR HERSTELLUNG EINER ARMBANDUHR

Title (fr)  
DISPOSITIF UNIVERSEL DE PRÉPARATION D'UNE MONTRE

Publication  
**EP 3422119 B1 20210630 (FR)**

Application  
**EP 18173402 A 20180521**

Priority  
• EP 17173301 A 20170529  
• EP 17173302 A 20170529

Abstract (en)  
[origin: CN111221237A] The invention relates to a universal device for winding and time setting of a watch. The universal device (1000) for winding and time setting of the watch (1) with an oscillating resonator (2) comprises the components of a re-winding and state correcting component which comprises an automatic winding mechanism (304) for a mechanical watch or an automatic watch and comprises at least one watch receiving bracket (305); a state measuring component (303) which measures the state relative to a reference clock (1001) and comprises an observing system (1002); a stopping monitoring component (500) which observes stopping of the resonator (2); and a control component (900) which is configured for recognizing the stopping time displayed by the watch (1) at the stopping position and calculates the residual time until synchronization between the actual time indicated by the clock (1001) and the stopping time, and furthermore activates the automatic winding mechanism (304) for rewinding the storage component of the watch (1) when the residual time elapses.

IPC 8 full level  
**G04D 7/12** (2006.01); **G04B 3/00** (2006.01); **G04D 1/06** (2006.01); **G04D 7/00** (2006.01)

CPC (source: CN EP US)  
**G04B 3/006** (2013.01 - EP US); **G04B 5/00** (2013.01 - CN US); **G04B 18/021** (2013.01 - US); **G04B 27/02** (2013.01 - US);  
**G04C 1/04** (2013.01 - US); **G04D 7/004** (2013.01 - EP US); **G04D 7/1264** (2013.01 - EP US); **G04D 7/1278** (2013.01 - EP)

Citation (examination)  
EP 3537233 A1 20190911 - IAV ENG SARL [CH]

Cited by  
EP4002018A1; CN114355747A; EP3885846A1; KR20210122061A; US12105477B2; EP3719589A1; US12066792B2; EP3835889A1;  
EP3572887A1

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 3422119 A2 20190102; EP 3422119 A3 20190123; EP 3422119 B1 20210630**; CN 111221237 A 20200602; CN 111221237 B 20210824;  
CN 111221238 A 20200602; CN 111221238 B 20210709; US 11669047 B2 20230606; US 2021011432 A1 20210114

DOCDB simple family (application)  
**EP 18173402 A 20180521**; CN 201911172961 A 20191126; CN 201911173270 A 20191126; US 201916499735 A 20190521