

Title (en)  
DEVICE COMPRISING A MOVEMENT FOR A TIMEPIECE AND A CHRONOGRAHIC MODULE

Title (de)  
VORRICHTUNG MIT UHRWERK UND CHRONOGRAPHENMODUL

Title (fr)  
DISPOSITIF COMPORTANT UN MOUVEMENT HORAIRE ET UN MODULE CHRONOGRAPHE

Publication  
**EP 1470452 B1 20051026 (FR)**

Application  
**EP 03700289 A 20030127**

Priority  
• EP 03700289 A 20030127  
• CH 0300063 W 20030127  
• EP 02405063 A 20020201

Abstract (en)  
[origin: EP1333345A1] A device comprises a base movement (MB) for a timepiece the time display of which is driven by a first barrel connected to a first mechanism and a first regulator and an autonomous chronographic module the time display of which is driven by a second barrel independent of the first and connected to a second mechanism and a second regulator. The chronographic module is exclusively comprised of mechanical components. The oscillation frequency provided by the regulator thereof is equal to N times the oscillation frequency for the regulator of the base movement, the coefficient N being able to be defined as a function of a specific application for the chronograph, such that any chronographic module as previously defined may co-operate with the same base movement. The chronograph regulator is constantly engaged with the corresponding mechanism. The chronograph module permits the reading of a time interval with a minimum precision of one hundredth of a second. The base movement body and that of the chronographic module are arranged such that in the assembled state the overall height and diameter do not exceed 7.75 mm and 30 mm respectively, the dimensions of just the chronograph are not greater than 4 mm (height) and 30 mm (diameter) when the elements thereof are mounted on a baseplate such that the device may be advantageously integrated in the case of a watch bracelet and thus permit an aesthetic fitting.  
[origin: EP1333345A1] The timepiece consists of a basic timekeeper (MB) with a wholly mechanical chronograph (MCA) secured on top by locating pins. The chronograph has a separate barrel (22) and regulator with balance wheel (23) and is actuated by a push button rod (1A). The rate of oscillation of the chronograph regulator is N times that of the timekeeper regulator and the value is chosen to suit a particular application.

IPC 1-7  
**G04B 27/02**; **G04B 37/00**; **G04F 7/08**; **G04B 9/00**

IPC 8 full level  
**G04B 27/00** (2006.01); **G04B 1/12** (2006.01); **G04B 9/00** (2006.01); **G04B 27/02** (2006.01); **G04B 37/00** (2006.01); **G04B 37/06** (2006.01); **G04F 7/08** (2006.01)

CPC (source: EP US)  
**G04B 1/12** (2013.01 - EP US); **G04B 37/066** (2013.01 - EP US); **G04F 7/0809** (2013.01 - EP US); **G04F 7/088** (2013.01 - EP US); **G04F 7/0885** (2013.01 - EP US); **G04F 7/0895** (2013.01 - EP US)

Cited by  
WO2020100004A1; US11675313B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)  
**EP 1333345 A1 20030806**; **EP 1333345 B1 20080326**; AT E308068 T1 20051115; AT E390654 T1 20080415; AU 2003201592 A1 20030902; CH 697015 A5 20080314; CH 697016 A5 20080314; DE 60225779 D1 20080508; DE 60225779 T2 20090618; DE 60302040 D1 20051201; DE 60302040 T2 20060727; EP 1470452 A2 20041027; EP 1470452 B1 20051026; JP 2005526958 A 20050908; JP 4505054 B2 20100714; TW 200422800 A 20041101; TW I276930 B 20070321; US 2005007888 A1 20050113; US 2011164474 A1 20110707; US 2011164476 A1 20110707; US 2011164477 A1 20110707; US 7905655 B2 20110315; US 8113707 B2 20120214; US 8182138 B2 20120522; US 8308345 B2 20121113; WO 03065130 A2 20030807; WO 03065130 A3 20040624

DOCDB simple family (application)  
**EP 02405063 A 20020201**; AT 02405063 T 20020201; AT 03700289 T 20030127; AU 2003201592 A 20030127; CH 0300063 W 20030127; CH 13502003 A 20030804; CH 13512003 A 20030804; DE 60225779 T 20020201; DE 60302040 T 20030127; EP 03700289 A 20030127; JP 2003564658 A 20030127; TW 92109144 A 20030418; US 201113047157 A 20110314; US 201113047197 A 20110314; US 201113047228 A 20110314; US 89971304 A 20040727