

Title (en)

Electronic watch with a control system in the bottom of the case.

Title (de)

Elektronische Uhr mit Kontrollvorrichtung im Boden des Gehäuses.

Title (fr)

Montre électronique avec système de commande dans le fond de la boîte.

Publication

EP 0224030 A1 19870603 (FR)

Application

EP 86114631 A 19861022

Priority

CH 469285 A 19851031

Abstract (en)

[origin: US4681461A] The back cover of the case is provided with positioning means which determine more or less precisely the location where means external to the case must be placed in order to actuate each control mechanism. Such positioning means may for example take the form of grooves at the bottom of each of which is located a control mechanism and into which may be introduced a portion of the securing element of the bracelet. It might likewise comprise protuberances or portions in relief or cavities of more complex form, the remaining parts forming guide means for guiding the external actuating means toward such positioning means. This invention concerns electronic watches having a system of operating controls located in the back cover of their cases. The term "system of operating controls" here designates all or part of the mechanisms or components which are available to the user in order to permit him to accomplish time setting of the watch and eventually to exercise control over supplementary functions which such watch may be capable of accomplishing, as for instance that of a calendar or alarm. Naturally this definition does not exclude cases where the system is limited to a single mechanism. This may happen when the watch is of a simple nature and intended to indicate only hours and minutes, or because it is capable of responding differently according to whether one actuates the mechanism during a very short interval or relatively long interval, or more or less frequently during a predetermined time interval.

Abstract (fr)

Le but de l'invention est de faciliter le plus possible l'actionnement de dispositifs de commande placés à l'arrière d'une boîte de montre. Pour cela, le fond (15) de la boîte (12) est muni de moyens de positionnement qui déterminent avec plus ou moins de précision l'endroit où des moyens externes à cette boîte doivent être placés pour pouvoir actionner chaque dispositif de commande. Ces moyens de positionnement peuvent être par exemple des gorges (16, 17) au fond de chacune desquelles se trouve un dispositif de commande (18, 19, respectivement 20, 21) et dans lesquelles peut pénétrer une partie (14d ou 14e) de l'élément de fermeture (14) du bracelet (13). Il peut s'agir également de bossages ou de parties de reliefs ou d'évidements de forme plus compliquée dont le restant constitue des moyens pour guider les moyens externes d'actionnement vers ces moyens de positionnement.

IPC 1-7

G04C 3/00

IPC 8 full level

A44C 5/00 (2006.01); **G04B 37/12** (2006.01); **G04C 3/00** (2006.01); **G04G 21/00** (2010.01)

CPC (source: EP KR US)

G04B 37/12 (2013.01 - KR); **G04C 3/00** (2013.01 - KR); **G04C 3/001** (2013.01 - EP US)

Citation (search report)

- [A] FR 2312058 A1 19761217 - MAC SOHMER CORP [US]
- [A] FR 2212574 A1 19740726 - RCA CORP [US]
- [A] DE 2940246 A1 19810416 - JUNGHANS GMBH GEB [DE]

Cited by

EP0452254A1; CN103892525A; EP3483661A1; US11262706B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0224030 A1 19870603; **EP 0224030 B1 19891220**; CH 665746G A3 19880615; DE 3667736 D1 19900125; JP S62142293 A 19870625; KR 870004344 A 19870509; KR 900007222 B1 19901005; US 4681461 A 19870721

DOCDB simple family (application)

EP 86114631 A 19861022; CH 469285 A 19851031; DE 3667736 T 19861022; JP 25714686 A 19861030; KR 860008180 A 19860930; US 91939486 A 19861016