

Title (en)

Electronic watch provided with detection means for the passage across a reference position.

Title (de)

Mit Detektionsmitteln zur Zeigerpassage an einer Referenzstelle vorbei ausgerüstete elektronische Uhr.

Title (fr)

Montre électronique munie de moyens de détection du passage d'une aiguille par une position de référence.

Publication

EP 0082821 A1 19830629 (FR)

Application

EP 82810548 A 19821217

Priority

CH 824381 A 19811223

Abstract (en)

[origin: US4420263A] For performing a very precise detection of the position of at least one hand, the watch is provided with an electro-optical detection device. The detection device comprises a wheel 8 carrying a mirror 26. The wheel 8 is intermittently driven by the driving member 6 for defining n angular positions of the mirror 26. The member 6 is meshing with the gear train 12 of the watch. It further comprises a light emitter 30 and a light receiver 32 which receives a light beam when the mirror 26 is in an angular position corresponding to the reference position of the hand. The number n is inferior to the number of steps performed by the hand during a complete revolution of said hand.

Abstract (fr)

Le détecteur de position de l'aiguille comprend un mobile de détection (8) monté pivotant sur un axe et muni d'un miroir (26), un mobile d'entraînement (6) relié au train d'engrenages (12) de la montre pour que le miroir (26) prenne successivement n positions angulaires par tour du mobile (8), un émetteur lumineux (30) et un détecteur (32) qui ne reçoit le faisceau lumineux émis par l'émetteur (30) que si le miroir (26) occupe cell des n positions angulaires correspondant à la position angulaire de référence de l'aiguille.

IPC 1-7

G04C 3/14; **G04G 7/00**

IPC 8 full level

G04C 3/00 (2006.01); **G04C 3/14** (2006.01); **G04G 7/00** (2006.01)

CPC (source: EP US)

G04C 3/14 (2013.01 - EP US); **G04G 7/00** (2013.01 - EP US)

Citation (search report)

- [A] US 4253173 A 19810224 - JAUNIN JEAN-PIERRE
- [A] FR 2413697 A1 19790727 - EBAUCHESFABRIK ETA AG [CH]
- [A] FR 2060272 A1 19710618 - COMP GENERALE ELECTRICITE, et al
- [A] FR 2435076 A1 19800328 - EBAUCHES SA [CH]
- [A] FR 2399689 A1 19790302 - SEIKO INSTR & ELECTRONICS [JP]
- [A] FR 1454917 A 19661007 - INT STANDARD ELECTRIC CORP
- [A] JAHRBUCH DER DEUTSCHEN GESELLSCHAFT FÜR CHRONOMETRIE E.V., vol. 27, 1976, pages 121-173, Stuttgart, DE.

Cited by

EP0308879A3; EP0180880A3; DE4311065C1; FR2728087A1; GB2197968A; EP0185160A3; EP0172069A1; FR2568029A1; GB2272309A; GB2272309B; US5566140A; WO9423349A1; EP0108711B1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0082821 A1 19830629; **EP 0082821 B1 19870318**; CH 646301G A3 19841130; DE 3275765 D1 19870430; JP S58150881 A 19830907; JP S6336478 B2 19880720; US 4420263 A 19831213

DOCDB simple family (application)

EP 82810548 A 19821217; CH 824381 A 19811223; DE 3275765 T 19821217; JP 22514082 A 19821223; US 45014082 A 19821215