

Title (en)

Means for detecting gear position and means for correction

Title (de)

Stellungsdetektions- und -Korrekturereinrichtung

Title (fr)

Dispositif de détection de la position du rouage avec de correction

Publication

EP 0529390 B1 19970108 (DE)

Application

EP 92113613 A 19920810

Priority

DE 4128752 A 19910829

Abstract (en)

[origin: EP0529390A2] A mechanism (11) having a position detection display for the automatic display correction of a radio clock (12) is to be designed in such a way that, on the one hand, the proven gear structure can be retained and, on the other hand, a rapid operating cycle into the reference position of the display means can be realised. For this purpose, the hour wheel (24), which is provided with silvering (37) on the irradiation side as far as an interruption aperture (24%) and can be moved by a dedicated motor (26), is firstly situated in the beam path (34) of a reflected-beam barrier (31) followed, in each case as a perforated disc diaphragm, concentrically by the minute wheel (22) and the second wheel (15), as well as eccentrically by an intermediate wheel (16), driven by the further motor (17), and, at the end of the reflected-beam path (34), the third wheel (28) between the second wheel (15) and minute wheel (22). The third wheel (28) carries a reverse mirror (35) or a diaphragm aperture (28%) in front of reverse mirror (35), which is installed fixed to the mechanism, and a further reverse mirror, optionally offset by half an operating cycle for the purpose of rapidly rotating into a pointer setting position. In order to effect movement into the display reference position, the diaphragm position is firstly moved to interrupt the beam path (34) and then to reflect at the input silvering (37) until the interruption aperture (24%) is reached, in order thereafter for the further motor (17) to set the further disc diaphragms (16_, 15_, 28_ and 22_) to passage of the beam path (34). <IMAGE>

IPC 1-7

G04C 3/14

IPC 8 full level

G04C 3/00 (2006.01); **G04C 3/14** (2006.01); **G04C 9/00** (2006.01); **G04R 20/00** (2013.01); **G04R 20/26** (2013.01)

CPC (source: EP US)

G04C 3/14 (2013.01 - EP US)

Cited by

EP0721154A1; CH688951GA3

Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

EP 0529390 A2 19930303; **EP 0529390 A3 19950222**; **EP 0529390 B1 19970108**; DE 4128752 A1 19930304; DE 4128752 C2 19971204; DE 59207832 D1 19970220; HK 69097 A 19970530; JP 2941576 B2 19990825; JP H05209970 A 19930820; US 5231612 A 19930727

DOCDB simple family (application)

EP 92113613 A 19920810; DE 4128752 A 19910829; DE 59207832 T 19920810; HK 69097 A 19970522; JP 23058492 A 19920828; US 93737292 A 19920831