

ABSTRACT

SYNCHRONISATION DEVICE COMPRISING A TIME ZONE DETECTOR

The invention concerns a synchronisation device for synchronising the analogue display with the digital display of a timepiece.

The device includes a contact wheel (1), driven by the hour-wheel of the timepiece, on which is fixed a contact spring (2) with several arms (4, 6; 8, 10). The arms make contact with conductive strips (T1 - T5) distributed according to a particular arrangement on a printed circuit board associated with the device according to the invention. Via the geometry of the arms, the strips are periodically connected in different configurations. The series of combinations forming the possible different configurations is repeated periodically. The device further comprises an electronic control signal generating device for storing the initial position corresponding to a certain configuration of the contacts. Since the series of combinations is given, each movement of the hour-wheel can be detected.

Figure 4