

ABSTRACT

METHOD FOR SYNCHRONISING AN ANALOG DISPLAY OF
A TIMEPIECE WITH ITS ELECTRONIC TIME BASE

The method of synchronising the analogue display (41) of a timepiece (40), including an electronic time base (64), is achieved using proximity sensors (60, 62) respectively associated with wheels (46, 48) each having an aperture (54, 56) for defining the angular position of the latter. Determination of the angular position of a wheel requires an angular distance of around 60° to 90° to be travelled with this type of proximity sensor. Dependency of the measurement results upon the temperature generates a problem of precision in determining the angular position of the wheels, in particular a wheel secured to the hour indicator, given that an angle of 60° to 90° corresponds to a time interval of 2 to 3 hours. In order to ensure a measurement in a relatively short time interval where the ambient temperature is substantially constant and thus has no influence on the measurement, the invention provides that, in a analogue display synchronisation mode at least one indicator is driven in an accelerated advance mode so that the aperture provided in the corresponding wheel quickly passes opposite the proximity sensor associated with that wheel.

Figure 5