

Abstract

TIMEPIECE COMPRISING A MECHANISM FOR DISPLAYING SUCCESSIVE
HOURS IN A DISPLAY ZONE

5 The present invention relates to a timepiece comprising a time display mechanism comprising a support member rotatable about an axis of rotation arranged to perform one revolution in n hours, and carrying n satellites (14a, 14b, 14c) each rotatably mounted on its own axis of rotation, located uniformly distributed about the axis of rotation of the support member and carrying the hour digits, distributed over
10 said satellites (14a, 14b, 14c), at a rate of $12/n$ or $24/n$ digits per satellite (14a, 14b, 14c), and a time display zone (2) extending over a circular sector of at least $360/n^\circ$ centred on the axis of rotation of the support member, the assembly being arranged such that the hour digits are successively displaced in order to appear in the display zone (2).

15 According to the invention, the support member is constituted by a cage (3), the satellites (14a, 14b, 14c) are constituted by toothed wheels and are arranged to be continually rotated on themselves about their own axis of rotation in the opposite direction to the direction of rotation of the cage (3) and at a different rotation speed to the rotation speed of the cage (3) by means of intermediate wheels (18) carried by said
20 cage (3) and arranged to be kinematically linked to a fixed wheel (20) with respect to said cage (3) and coaxial to the axis of rotation of the cage (3), the rotation speed of each satellite (14a, 14b, 14c) about its own axis of rotation with respect to the cage (3) being selected so as to minimise the apparent angular displacement of said satellite (14a, 14b, 14c) with respect to its own centre of rotation in the display zone (2) during
25 the displacement of said satellite (14a, 14b, 14c) led by the cage (3) between the start and the end of said display zone (2).

Fig. 1