

ABSTRACTTIMEPIECE COMPRISING A GENERATOR DRIVEN
BY THE MAIN SPRING OF A BARREL

This timepiece comprises a generator (1) for generating a supply voltage of a first predetermined value U_1 , a barrel with a spring (5, 6), a winding mechanism (5') and a set of hands (7 to 9). The electronic circuit (11, 12) of the timepiece requires a minimum limited supply voltage having a second predetermined value U_2 . This circuit comprises a timebase (12) and a regulating circuit (11) for regulating the rotational speed of the generator. According to the invention, a voltage regulator (25) is connected between the generator and said electronic circuit for adjusting its output voltage to said limited second value U_2 . The ratio between the absolute value $\hat{U}_1$ of the predetermined first value U_1 and the second predetermined value satisfies the relationship $\hat{U}_1 = k \cdot U_2$, k being a factor corresponding at least to the maximum expected variation rate of the absolute value $\hat{U}_1$ when the timepiece is worn.

(Figure 1)