

ABSTRACT

BALANCE FOR A CLOCKWORK MOVEMENT

In order to make a wheel-shaped balance (1) lighter, while maintaining sufficient mechanical resistance and good dimensional stability as regards temperature variations, the rim (3) and the arms (2) of the balance are made of titanium or a titanium-based alloy. This enables a sprung balance oscillator to be  
5 made with a larger diameter than normal for the same frequency, or having a higher frequency with the same dimensions as a usual oscillator.

Figure 1