

988,139.

J. A. PETTA.
WATCH BALANCE.
APPLICATION FILED MAY 20, 1908.

Patented Mar. 28, 1911.

Fig. 1.

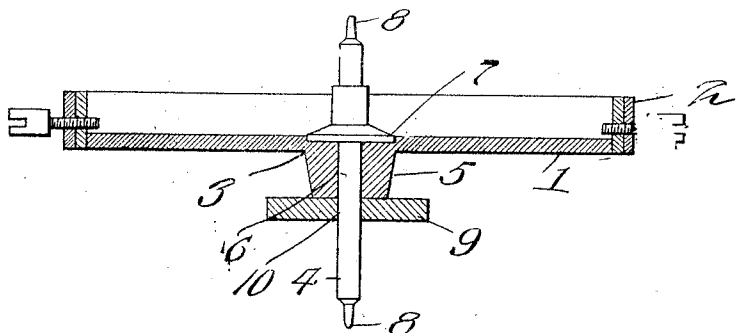
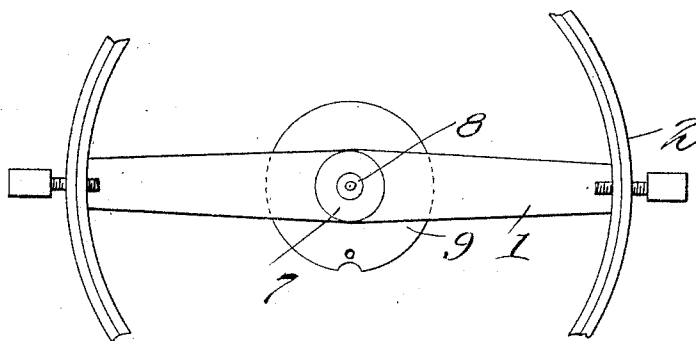


Fig. 2.



Witnesses
John A. Smith
K. Allen

Inventor
John A. Petta
334 *Victor J. Evans*
Attorney

UNITED STATES PATENT OFFICE.

JOHN A. PETTA, OF SEATTLE, WASHINGTON.

WATCH-BALANCE.

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Specification of Letters Patent. Patented Mar. 28, 1911.

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To all whom it may concern:

Be it known that I, JOHN A. PETTA, a citizen of the United States of America, residing at Seattle, in the county of King and State of Washington, have invented new and useful Improvements in Watch-Balances, of which the following is a specification.

My invention relates to improvements in watch balances, and its primary object is the provision of a device of this character wherein the staff is secured to the wheel of the balance by means of the roller table, the roller table frictionally engaging the staff, and a hub formed on and depending from the cross bar of the arm or wheel.

With the above and other objects in view, the invention consists in the construction, combination and arrangement of parts hereinafter fully described, claimed and illustrated in the accompanying drawing, wherein:

Figure 1 is a sectional view taken on a plane extending vertically and centrally through a watch balance constructed in accordance with my invention, and Fig. 2 is a top plan view of the watch balance, portions of the rear of the wheel being broken away.

Referring to the drawing by reference numerals, 1 designates the cross bar or arm, and 2 the rim of the wheel of a watch balance of the usual form and construction. The bar or arm 1 is provided at a point centrally between its ends with a countersunk opening 3 which receives the staff 4, and with a hub 5 provided with an opening 6 which also receives the staff. The hub 5 depends from and is formed integrally with the bar or arm 1. The staff 4 is provided at a point intermediate its ends with a circular flange 7 which occupies the countersink of the opening 3, and has its ends formed to provide pivots 8. The wheel is secured to the staff 4 against movement thereon by means of a roller table 9. The roller table 9 is provided with an opening 10 which is of a diameter to snugly receive the staff 4. The frictional contact between the wall of

the opening 10 and the staff 4 is such as to prevent the roller table from turning on the staff. The roller table engages the hub 5 with such frictional force as to prevent the wheel from turning on the staff.

It should be apparent from the above description taken in connection with the accompanying drawing, that I provide a watch balance which includes simple, durable and efficient means for securing the wheel on the staff. It should also be apparent that it is practically impossible to damage the wheel during the securing of the same on the staff.

The balance can be manufactured and sold at a comparatively low cost, as my improved manner of attaching the wheel to the staff does not in any way add to the cost of manufacture.

Changes in the form, proportions and minor details of construction may be made within the scope of the claim without departing from the spirit or sacrificing any of the advantages of the invention.

Having fully described and illustrated my invention, what I claim is:

A watch balance wheel comprising a rim having a cross arm provided with a circular recess in its upper face, the side wall of said recess being vertically disposed at right angles to its bottom, an outwardly tapering boss formed integral with and extending outwardly from the bottom face of the cross arm and having a central bore of considerably less size than the recess and intersecting the latter, a staff snugly fitted in said bore in the boss and having a disk correspondingly shaped to the recess in the arm and snugly fitted therein, and a roller table provided with a central opening snugly receiving the staff and frictionally engaging the adjacent end of the boss.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN A. PETTA.

Witnesses:

SAML. H. JOHNSTON,
E. V. GEE.