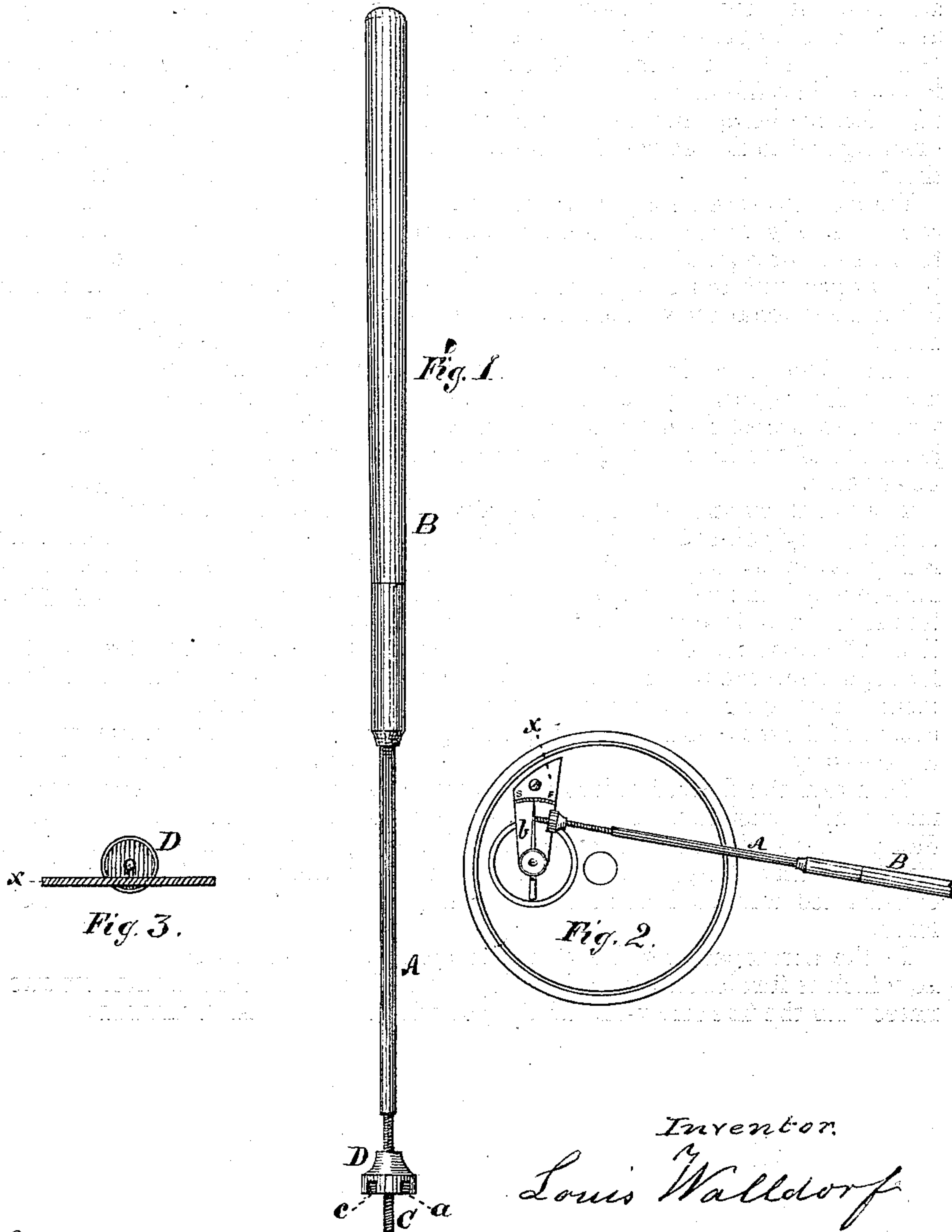


L. WALLDORF.

Improvement in Implement for Regulating Watches.

No. 125,861.

Patented April 16, 1872.



Witnesses
Geo. Frauenberger
A. Schutte.

Inventor.
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UNITED STATES PATENT OFFICE.

LOUIS WALLDORF, OF ROCHESTER, NEW YORK.

IMPROVEMENT IN IMPLEMENTS FOR REGULATING WATCHES.

Specification forming part of Letters Patent No. 125,861, dated April 16, 1872.

To all whom it may concern:

Be it known that I, LOUIS WALLDORF, of the city of Rochester, in the county of Monroe and State of New York, have invented a new and useful Improvement in Regulators for Watches; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

Figure 1 represents my improved regulator complete. Fig. 2 represents the same as applied to a watch for regulating it. Fig. 3 represents the flanged nut and bridge-plate of a watch, being a sectional view taken at the line *x* of Fig. 2.

The object of my invention is to provide a device for regulating watches, by means of which the utmost niceness and accuracy of adjustment of the hair-spring of the watch may be effected.

The usual manner of regulating a watch is to apply any pointed instrument to the regulating lever, by which the outer coil of the hair-spring is moved, and by pressure against this lever cause it to move in the desired direction. This manner of adjusting the hair-spring for regulating the watch is unreliable, as some means of gauging, limiting, or determining the extent of the movement of the regulating-lever is necessary.

To attain the desired object my invention is made; and consists in the use of a small spindle, provided with a fine screw-thread, in combination with a flanged nut, to serve as a rest, constructed and used as hereinafter fully set forth.

In the accompanying drawing, the spindle A, which is furnished with a handle, B, terminates with the fine screw-thread C, upon which

the flanged nut D is mounted. The larger and outer portion of the rest or nut D consists of a circular flange or rim, which has two open slots, *a c*, made therein. These slots or notches are at the proper distance apart, and of a capacity to fit upon the edge of the bridge-plate *b*, in which the upper pivot of the balance-wheel of the watch has its bearing.

Sectional Fig. 3 represents the bridge-plate of the watch and the supporting-nut D, thus exhibiting these parts of the regulator and watch in proper relation for use, as they are also shown in Fig. 2.

When the regulator is applied as described the extremity or end of the screw C will be in close contact with the regulating-lever of the watch, and any degree of longitudinal movement may be given to the regulator by revolving the handle B, and thus move the watch-regulating lever the desired distance.

My improved regulating device may be applied to either edge of the bridge-plate, or it may be applied so that its supporting nut or rest D will be in contact with any other conveniently projecting portion of the watch mechanism.

Having fully described my improved watch-regulator, I claim and desire to secure by Letters Patent—

The hand-instrument, consisting of the combination of the spindle A C and its flanged and notched nut D, constructed and used for regulating watches, substantially as described.

In testimony hereof I have hereunto set my hand this 28th day of November, A. D. 1871.

LOUIS WALLDORF.

Witnesses:

GEO. FRAUENBERGER,
A. SCHUTTE.