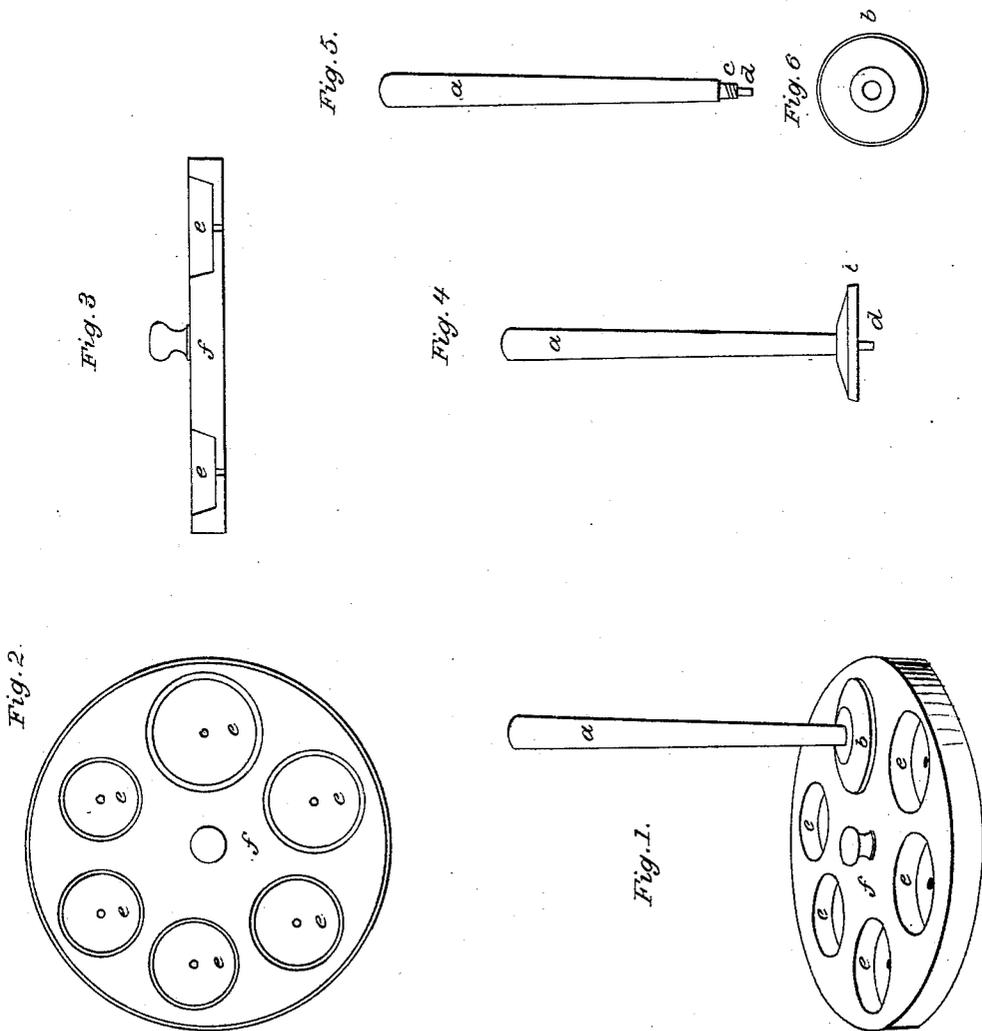


*A. S. Clackner,*

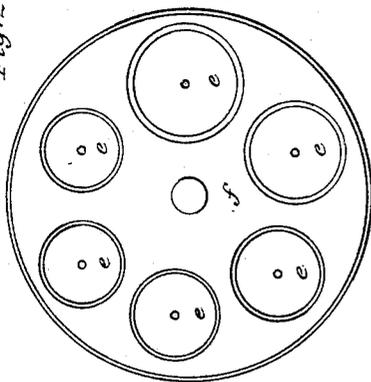
*Watchmakers' Tool.*

*No. 49,978.*

*Patented Sep. 19, 1865.*



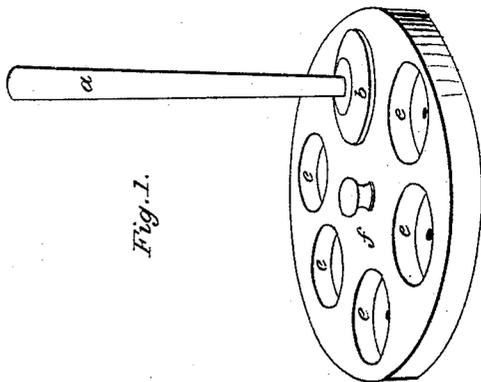
*Fig. 2.*



*Witnesses:*

*Fred C. Wilson,  
Samuel M. Smith*

*Fig. 1.*



*Inventor:*

*A. S. Clackner,*

# UNITED STATES PATENT OFFICE.

ANDREW S. CLACKNER, OF ROCHESTER, NEW YORK.

IMPROVEMENT FOR CONTRACTING THE BARRELS OF WATCH-MAINSPRINGS.

Specification forming part of Letters Patent No. 49,978, dated September 19, 1865.

*To all whom it may concern:*

Be it known that I, ANDREW S. CLACKNER, of the city of Rochester, county of Monroe, and State of New York, have invented a new and useful Improvement for Contracting Watch-Mainspring Barrels; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view. *a* is a handle, with the follower *b* attached. *eeeeee* are tapering circular cavities in the disk *f* of proper and convenient size to accommodate the different sizes of watch-barrels.

Fig. 2 is a top view of the disk *f*, showing the circular cavities *eeeeee*.

Fig. 3 is a transverse section, showing the taper of the cavities *ee* in the disk *f*.

Fig. 4 shows the handle *a* and follower *b*, with a projecting point or pivot, *d*.

Fig. 5 is the handle *a*, the screws *c*, by which the follower *b* is secured to the handle *a*, and the point or pivot *d*.

Fig. 6 shows the follower *b* detached from the handle *a*.

The object of this implement is to contract and restore to their original size and form watch-mainspring barrels which have become spread or enlarged by reason of the breaking of the chain, spring, or other causes whereby the barrel-head becomes loose. Hitherto the mode usually adopted to accomplish this object has been to hammer out or stretch the head of the barrel to fit its enlarged condition, making the barrel of unequal size at the ends and out of its proper shape, thereby rendering the performance of the watch imperfect and unsatisfactory.

My invention consists of a disk, *f*, Fig. 2, of brass, steel, or other proper metal or substance, in which is sunk a number of tapering circular

cavities, *eeeeee*, of convenient size to accommodate the various sizes of watch-barrels.

The barrels of watches which operate without a chain have a tooth or gear wheel upon their upper edges, and projecting a little therefrom. The cavities *eeeeee*, therefore, are made of suitable depth to fit the barrel without interfering with the teeth.

One of the special advantages of this tooth consists in adapting the depth of the cavities to the depth of the barrel exclusive of the teeth, thus avoiding all danger of injuring the teeth while adjusting the barrel; also, the handle *a*, Fig. 4, secured through the follower *b* by means of the screw *c*, Fig. 5, and terminating below the follower *b*, Fig. 4, by a pivot or point, *d*; also, the follower *b*, Fig. 6, of convenient or proper size, made slightly concave on its lower side or face, thereby giving the force of the blow on the rim of the barrel.

The operation of the implement is as follows: The barrel is inserted in one of the circular cavities *eeeeee*, Fig. 1, of the proper size. The follower *b*, Fig. 4, with the handle *a* attached, is then set upon the barrel, with the pivot or point *d* in the center hole of the barrel, by which it is held evenly over the center of the barrel. A few gentle blows on the head of the handle will restore the barrel to its original size and form.

What I claim, therefore, as my invention, and desire to secure by Letters Patent, is—

1. Contracting the barrels of watch-mainsprings by forcing the same within a circular tapering cavity by means of a plunger or other equivalent device.

2. In combination with a circular tapering cavity, as above set forth, a follower constructed substantially as described.

A. S. CLACKNER.

Witnesses:

FRED. C. WILSON,  
SAML. M. SMITH.