

C. H. E. BECHERT.

RUBY PIN-INSERTER FOR WATCHES.

No. 175,905.

Patented April 11, 1876.

Fig. 1

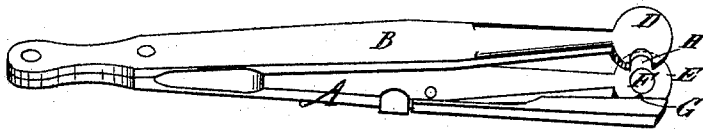


Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

CARL H. E. BECHERT, OF OROVILLE, CALIFORNIA.

IMPROVEMENT IN RUBY-PIN INSERTERS FOR WATCHES.

Specification forming part of Letters Patent No. **175,905**, dated April 11, 1876; application filed January 3, 1876.

To all whom it may concern:

Be it known that I, CARL HERMAN E. BECHERT, of Oroville, Butte county, California, have invented a new and Improved Ruby-Pin Inserter for Lever-Watches, of which the following is a specification:

My improved tool for inserting ruby-pins in the rollers of lever-watches consists of a kind of spring-nippers, of which—

Figure 1 in the accompanying drawing is a perspective view, and Fig. 2 is a side elevation.

Similar letters of reference indicate corresponding parts.

A and B are the spring-jaws, having flat circular ends D E, one of which has a central hole, F, and a groove or notch, G, in one edge, which is filed off flat at right angles to the faces and in line with one edge of the jaws, and the end D of the other jaw has a large notch, H, in its edge. I is a spring-finger pressing on the flattened end of edge E, over the notch G, and J is a thumb-lever for lifting said finger. The groove or notch G in the end of jaw A is for the reception of the ruby-pin, which is held in the groove by the spring-finger I. This spring is thick at the portion holding the ruby, so as not to get blue in the flame when heating the shellac.

The roller in which the ruby-pin is to be inserted is adjusted so that the center of it can

be seen through the middle of the hole F, which is also for the reception of the lower projection on some rollers, as, for instance, in the E. Howard watch, and others. The back jaw B, which has the notch H filed in it to make room for the shellac, is then pressed against the roller, and the whole held in the flame until the shellac melts, when it is withdrawn before there is any danger of overheating the roller, which sometimes happens in using the common tweezers. After cooling off, the ruby-pin will always be found perfectly true and the facet exactly opposite the roller's center. It works equally well with round, oval, and three-armed ruby-pins.

The inner end of groove G is filed out a little more than the outer end, to prevent the shellac from entering it.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of the jaws A B, having flat ends, one of which has a central hole, E, and a groove, G, in its flattened edge, and with which is combined the spring-finger I, and the other has a groove or notch, H, in its edge, substantially as specified.

CARL HERMAN ERNST BECHERT.

Witnesses:

BERNHARD EPHRAIM,
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