

(No Model.)

F. A. BARTLETT.
WATCH MAKER'S TWEEZERS.

No. 465,606.

Patented Dec. 22, 1891.

Fig. 1.

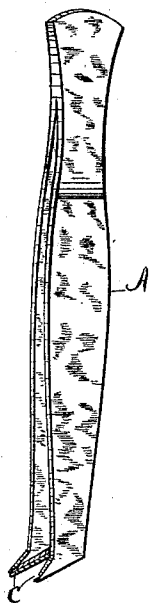
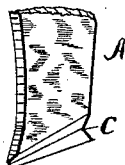


Fig. 2.



Witnesses

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WATCH-MAKER'S TWEEZERS.

SPECIFICATION forming part of Letters Patent No. 465,606, dated December 22, 1891.

Application filed March 26, 1891. Serial No. 386,490. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK A. BARTLETT, a citizen of the United States of America, residing at Lockport, in the county of Will and State of Illinois, have invented certain new and useful Improvements in Watch-Maker's Tweezers, of which the following is a specification, reference being had therein to the accompanying drawings and the letters of reference thereon, forming a part of this specification, in which—

Figure 1 is a perspective view, and Fig. 2 is a perspective view, of the lower end of one member of the tweezers, showing more clearly the transverse tapered groove across the face of its lower end, forming a cutting-edge at the lower end.

This invention relates to certain improvements in tweezers for watch-makers' use and adapted more particularly for use in removing or replacing hands on a watch, which improvements are fully set forth and explained in the following specification and claims.

Referring to the drawings, A represents an ordinary pair of spring-steel tweezers. The improvement consists in providing the inner faces of the lower end of its legs with a tapered transverse groove C, the grooves in each face being arranged parallel with and opposite each other, the lower edges of the grooves being the lower end of the legs and forming knife-edges. The said grooves are tapered so as to be wider at their rear ends than at

their forward ends for the purpose of adapting them to grasp objects of different sizes. In all watches the hubs of the hands are not of uniform size, nor are they of uniform size on the same watch. By having this groove C tapered to be wider at one end than the other and forming knife-edges opposite each other it becomes unnecessary to have several pairs of tweezers of different sizes for use in grasping the different-sized hand-hubs, thus saving time and expense of several such tools.

I am aware that grooves have been used in tweezers on their faces; but I am not aware that such parallel tapered grooves forming a knife-edge at the lower end of the tool, adapting it to grasp objects of different sizes, as set forth, has ever been known or used before.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is as follows, to wit:

1. The tweezers shown and described, having the tapered parallel grooves on their faces forming knife-edges at the lower end of the tool, substantially as and for the purpose set forth.

2. The tweezers shown and described, having the tapered parallel grooves on their faces, substantially as and for the purpose set forth.

FREDERICK A. BARTLETT.

Witnesses:

THOS. H. HUTCHINS,
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