

(No Model.)

J. L. ACKERMAN.
CLAMP.

No. 442,934.

Patented Dec. 16, 1890.

Fig. 1.

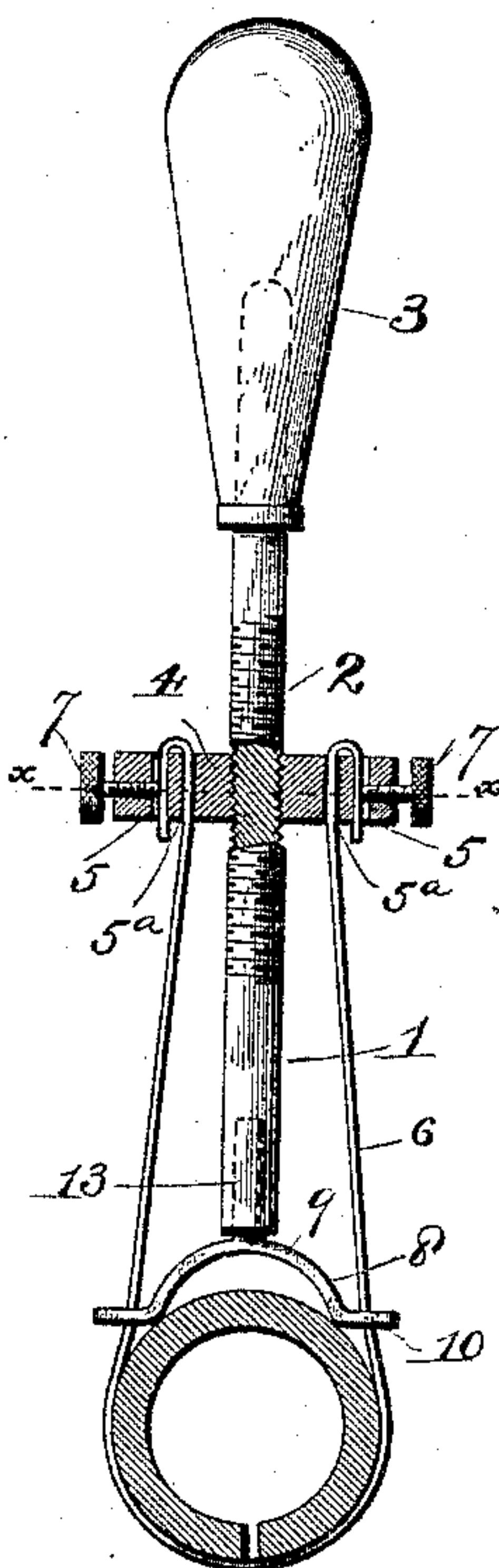
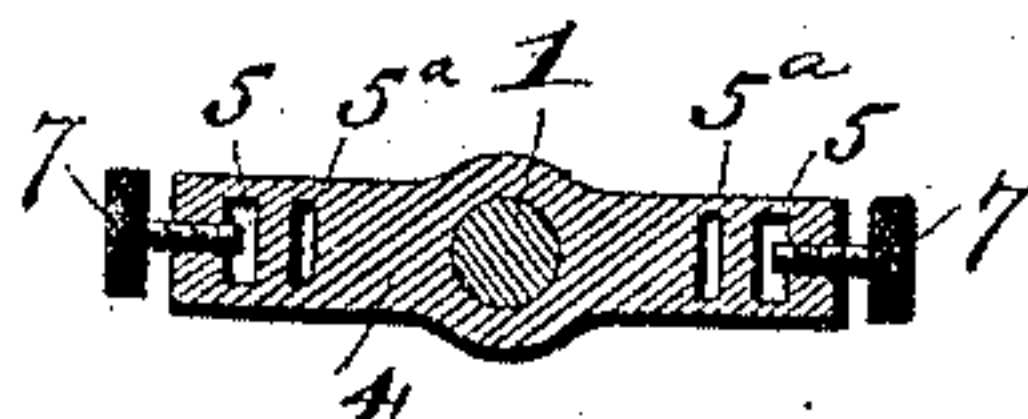


Fig. 2.



WITNESSES:
Amos H. Jones
J. L. Coombs

INVENTOR
Jasper L. Ackerman
James C. Cagge & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

JASPER L. ACKERMAN, OF LOWELL, INDIANA.

CLAMP.

SPECIFICATION forming part of Letters Patent No. 442,934, dated December 16, 1890.

Application filed May 12, 1890. Serial No. 351,514. (No model.)

To all whom it may concern:

Be it known that I, JASPER L. ACKERMAN, a citizen of the United States, and a resident of Lowell, in the county of Lake and State of Indiana, have invented certain new and useful Improvements in Clamps for Holding Broken or New Rings While Being Soldered; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in tools or implements for the use of jewelers and other workers in light metals in the operation of hand-soldering broken or new rings.

The object of the invention is to provide a simple, efficient, and economical clamp by means of which the ends of a broken or new ring may be brought together and securely held until the process of soldering or uniting the ends has been completed.

The invention consists in the novel construction and new combination of parts hereinafter fully described, and then pointed out in the claims.

In the accompanying drawings, Figure 1 is a central sectional view of a clamp constructed in accordance with my invention. Fig. 2 is a cross-section on the line $x x$, Fig. 1.

In the said drawings, the reference-numeral 1 designates a bar provided with the screw-threads 2 intermediate of its ends.

3 designates a handle having a central aperture or bore, within which the upper end of the bar 1 is received and secured in any suitable manner.

The numeral 4 denotes a cross-head having a central aperture provided with female screw-threads corresponding and engaging with the screw-threads 2 on the bar 1. At each end the cross-head is provided with two vertical holes 5 5^a, through which pass the ends of the clamping-wire 6, which ends are firmly secured by means of the binding-screws

7 7, fitting in horizontal apertures in the cross-head, which bisect the outer apertures 5.

The numeral 8 denotes a clamping-plate consisting of a curved portion 9, having the horizontally-projecting ends 10, provided with apertures for the passage of the clamping-wire 6. Rising centrally from the curved portion 9 is a pin or stud 13, fitting and secured within a recess in the lower end of the bar 1.

The wire 6 has its ends passed through the holes 5^a in the cross-head 4 and bent over and passed through the outer holes 5, where they are secured by means of the binding-screws 7. The wire 6 may be of any suitable or convenient length. The new ring or broken ring to be mended is then placed between the wire and the clamping-plate, as shown in Fig. 1. The bar 1 is then rotated, when the clamping-plate and wire will force the ends of the ring together and securely hold them until the process of soldering is completed.

Having thus described my invention, what I claim is—

1. In a clamp for holding broken or new rings while being soldered, the combination, with the bar 1, having screw-threads 2, of the screw-threaded cross-head 4, having holes 5 5^a, the clamping-wire 6, passing through said holes, and the binding-screws 7 7, for securing said wires, substantially as described.

2. In a clamp for holding broken or new rings while being soldered, the combination, with the screw-threaded bar 1, the screw-threaded cross-head, and the clamping-wire 6, secured to said cross-head, of the clamping-plate consisting of the curved portion 9, horizontal ends 10, having apertures for the passage of the clamping-wire, and the pin or stud 13, secured to bar 1, substantially as described.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

JASPER L. ACKERMAN.

Witnesses:

GEO. W. WATERS,
J. R. DRISCOLL.