

G. E. WISMAN.

JEWELER'S TONGS.

APPLICATION FILED APR. 24, 1914.

1,108,299.

Patented Aug. 25, 1914

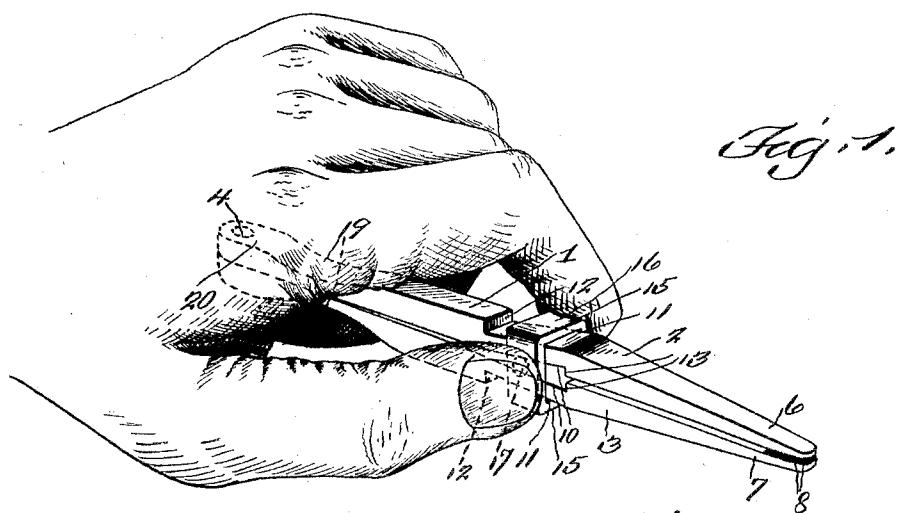


Fig. 1.

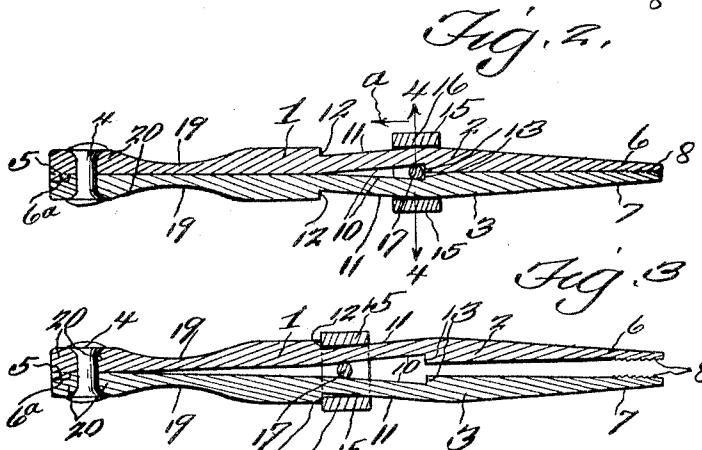


Fig. 2.

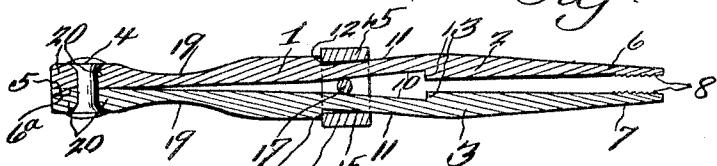


Fig. 3.

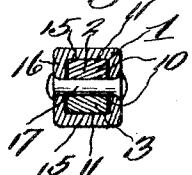


Fig. 4.

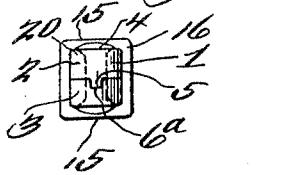


Fig. 5.

Witnesses

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# UNITED STATES PATENT OFFICE.

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## JEWELER'S TONGS.

1,108,299.

Specification of Letters Patent. Patented Aug. 25, 1914.

Application filed April 24, 1914. Serial No. 834,191.

To all whom it may concern:

Be it known that I, GEORGE E. WISMAN, a citizen of the United States, residing at Franklinton, in the county of Franklin and State of North Carolina, have invented a new and useful Jeweler's Tongs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a new and useful improved pair of jeweler's tongs, and an object of the invention is to provide a device of this nature provided with means, whereby by the gripping ends of the jaws may be held substantially rigidly, whether they are close together or far apart.

In practical fields the details of construction may necessitate alterations, falling within the scope of what is claimed.

The invention comprises further features and combination of parts, as hereinafter set forth, shown in the drawings and claimed.

In the drawings:—Figure 1 is a view in perspective of the improved pair of tongs constructed in accordance with the invention. Fig. 2 is a longitudinal sectional view. Fig. 3 is a view similar to Fig. 2 showing the jaws adjusted to their limit and separated. Fig. 4 is a sectional view on line 4—4 of Fig. 2. Fig. 5 is a rear end view of said pair of tongs illustrating the means to hold the jaws in registration.

Referring more especially to the drawings, 1 designates the jeweler's tongs as a whole, which comprises a pair of duplicate members or blades 2 and 3 riveted or otherwise secured together as at 4, there being a tongue and groove connection 5 and 6<sup>a</sup>, to hold the members or blades squarely in registration. The free portions of the members or blades are designed to be adjusted toward and away from each other, so as to be disposed, in order to pick up or clamp various small articles of jewelry and the like. The adjacent faces of the jaws 6 and 7 of said members or blades have knurled surfaces 8, to prevent that which is clamped from slipping. Substantially midway of the length of each blade or member, parallel opposite faces are provided, designated by the numerals 10 and 11. The surface 11 gradually merges into the outer face of each member or blade at one end, but extending at an angle thereto, as shown, and terminate in a shoulder 12 at the opposite end. The inner

face 10 gradually merges from the inner surface of each blade or member, at a junction diagonally opposite from the junction where the face 11 merges into the outer face of each member or blade. Said inner face 10 also terminates in a shoulder 13 at a distance spaced apart from and diagonally opposite the shoulder 12. The shoulders 12 are disposed diametrically opposite one another, but upon the outer faces of said members or blades, while the shoulders 13 are disposed at junctions diametrically opposite, but upon the inner or adjacent faces of said members or blades. A metallic strap surrounds both of said members as shown. The portions 15 of said strap 16 slide against and engage the faces 11, acting to throw the jaws together, to clamp various articles of jewelry. A transverse pin 17 arranged parallel to the portions 15 of the strap and carried by the strap extend between said members and engage the adjacent faces 10, and when the strap is moved in the direction of the arrow *a*, the pin 18 acting against the adjacent faces 10 cause the jaws to separate, in order to adjust the jaws to grasp other or different sized articles of jewelry. When adjusting the strap in the direction of this arrow *a* the shoulders 12 limit the strap in its movement. However, when moving the strap in the opposite direction the shoulders 13 are contacted with by the pin, thereby limiting the strap in its movement in the opposite direction. 90 In applying this strap, the same, subsequently to its construction is slipped or telescoped over both of said blades or members until the portions 15 engage the faces 11 at the junctions where they merge into the 95 outer faces of the blades or members, then the pin is inserted transversely of the strap adjacent the shoulder 13, and riveted, in which case the strap will remain permanently until the riveted ends of the pin are 100 filed off. Said blades adjacent to their riveted ends are provided with depressions 19, to be engaged by the ball of the palm of the hand and one of the fingers in order to attain a grip on the tool, the enlargements 105 at the riveted ends designated by the numeral 20 preventing the tool from slipping from the hand, as shown in the drawings.

The invention having been set forth, what is claimed as new and useful is:—

A pair of jeweler's tongs comprising a pair of blades riveted together at one end

of said tongs, and terminating in clamping jaws at the opposite end of the tongs, each blade substantially midway of its length having diametrically opposite faces parallel to each other, but extending at angles to the opposite faces of the body of said blade, the outer faces of the parallel faces of said blade terminating in shoulders toward the pivot of said blades, the adjacent faces of said parallel faces of the blades terminating in shoulders toward the free ends of said blades, said blades having clamping surfaces extending from the adjacent shoulders entirely to the free ends of said blades, the inner shoulders being diagonally opposite the outer shoulders, a strap surrounding said blades engaging the outer faces and designed to be limited in its movement in one direction by the outer shoulders, a cylindrical pin carried by said strap extending

transversely thereof and transversely disposed between the adjacent faces and adapted to contact with the inner adjacent shoulders to limit the strap in its movement in the opposite direction, said strap and pin 25 constituting means to hold the jaws in substantially adjusted rigid positions between the extreme open and closed positions of said jaws, and interengaging elements adjacent the rivet of said blades for holding the 30 blades diametrically opposite and in registration with one another.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE E. WISMAN.

Witnesses:

H. E. PEARCE,  
E. H. EVANS.

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