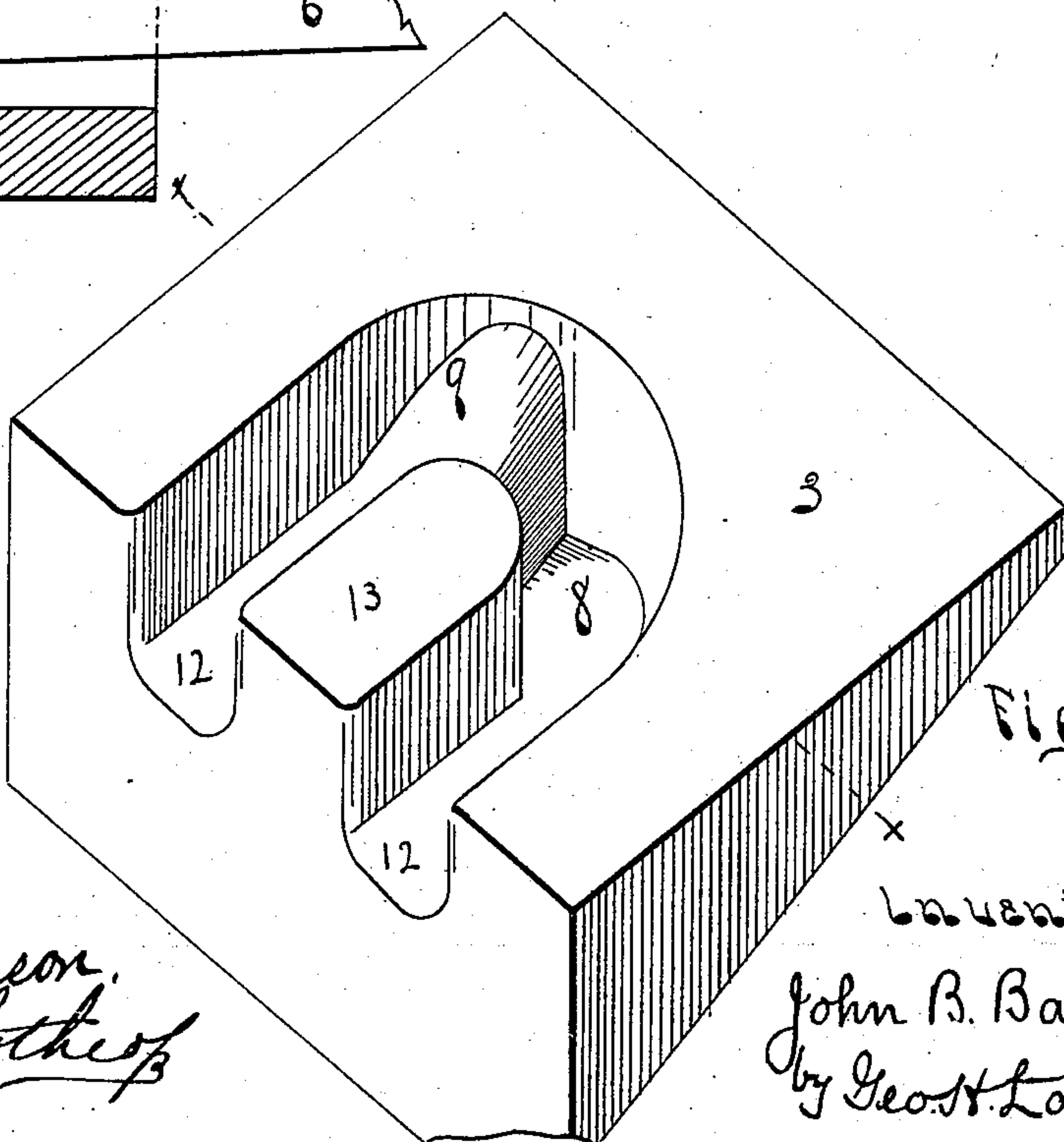
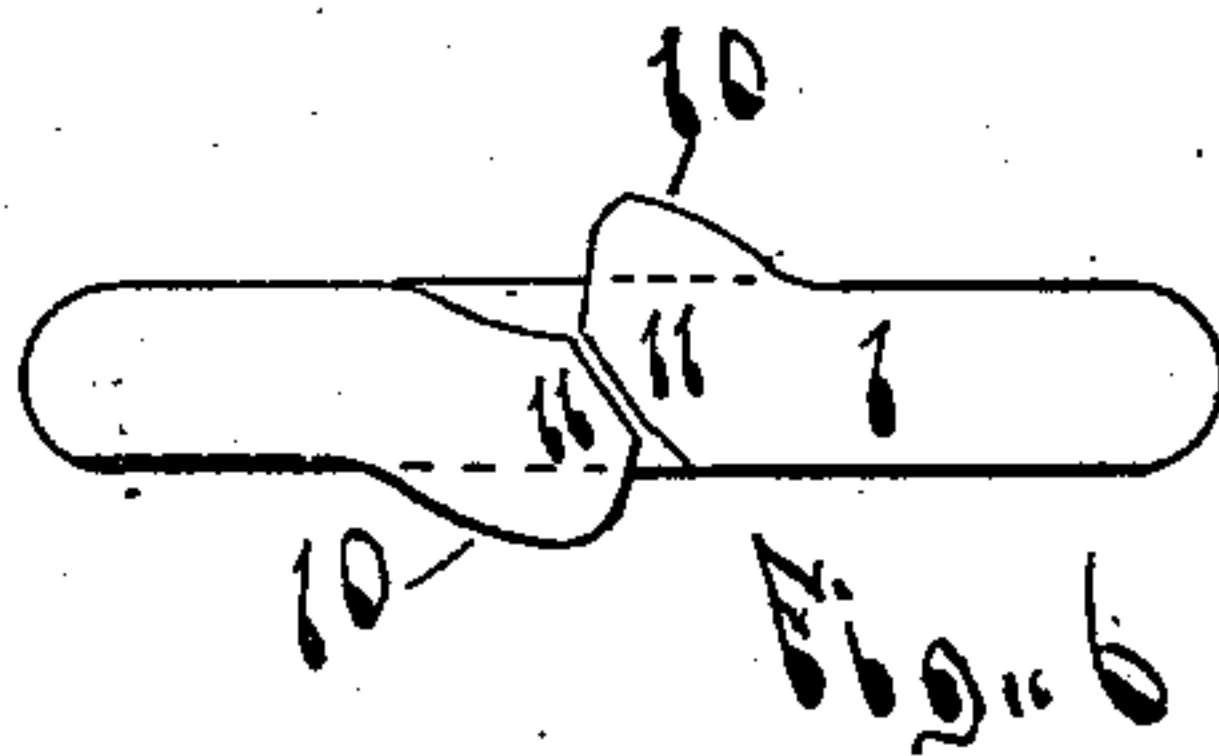
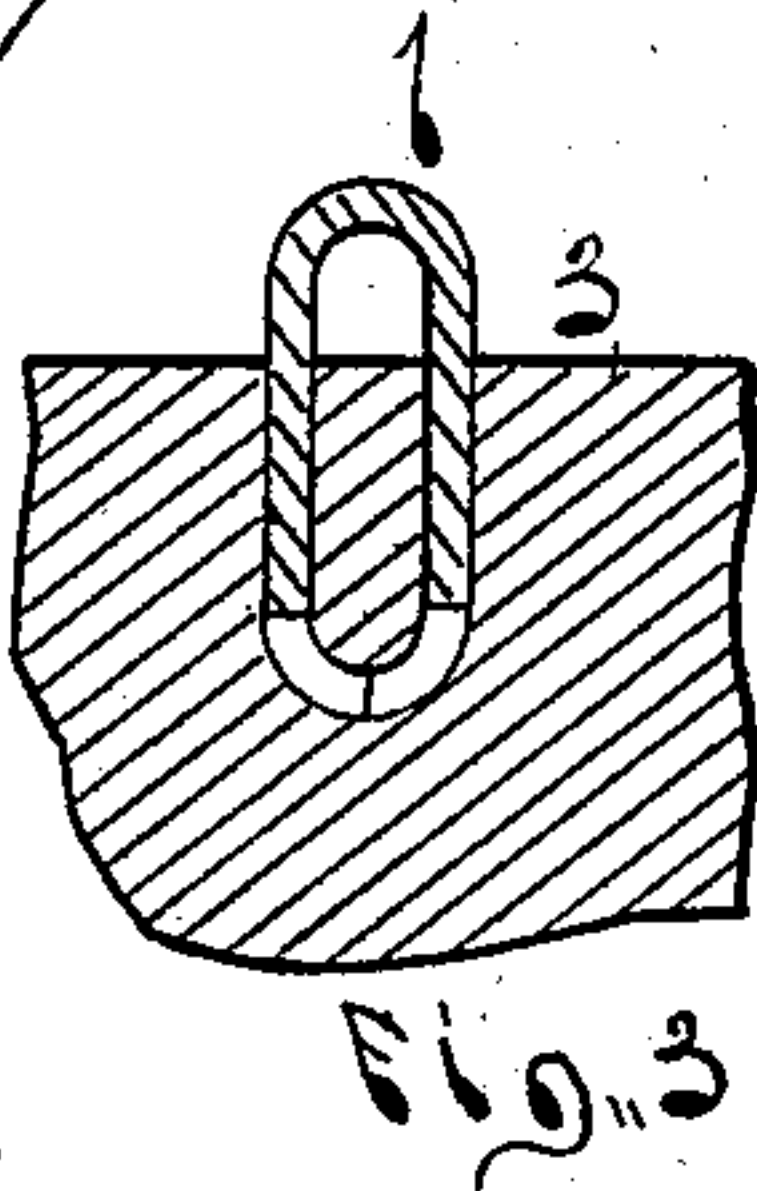
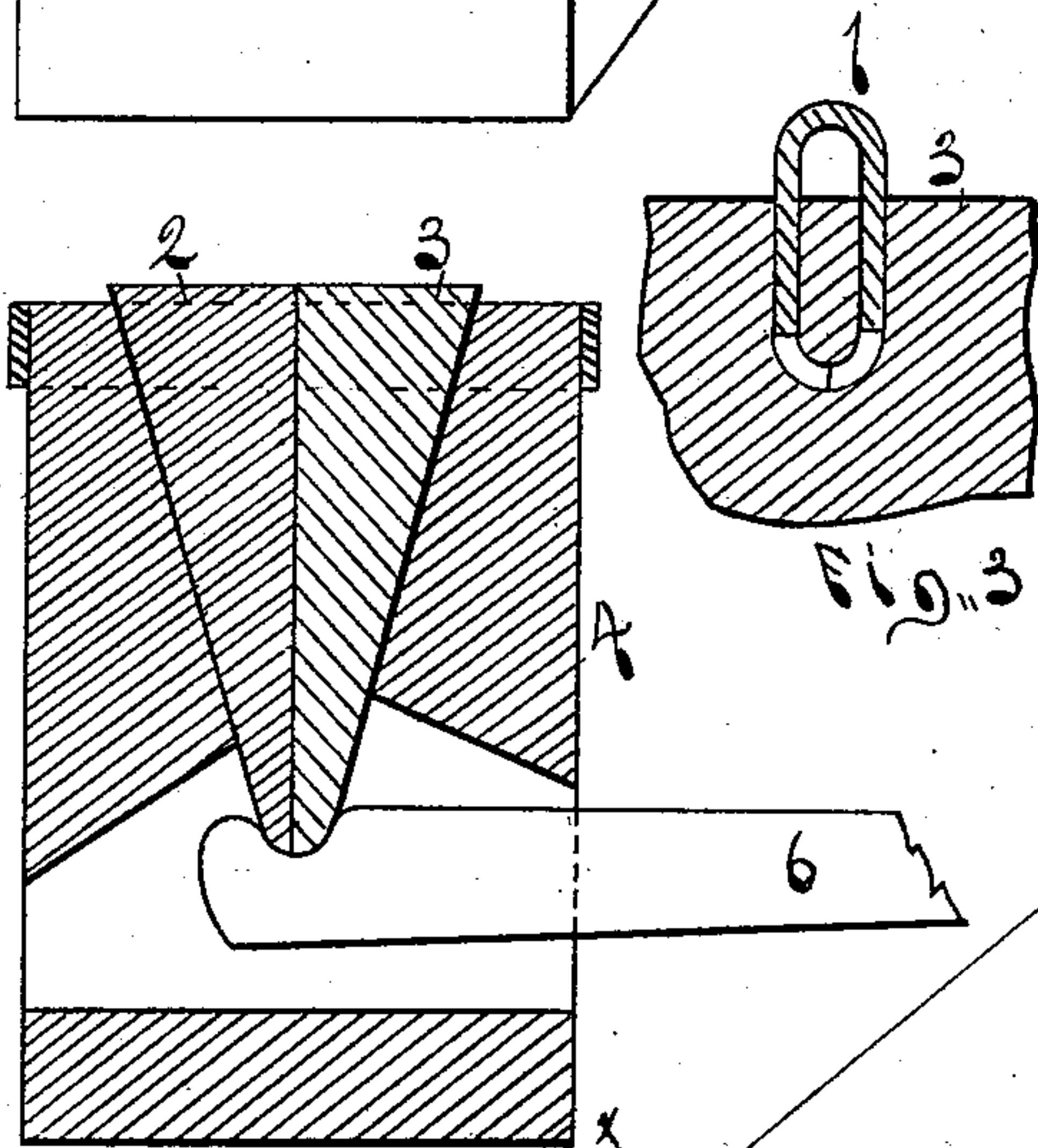
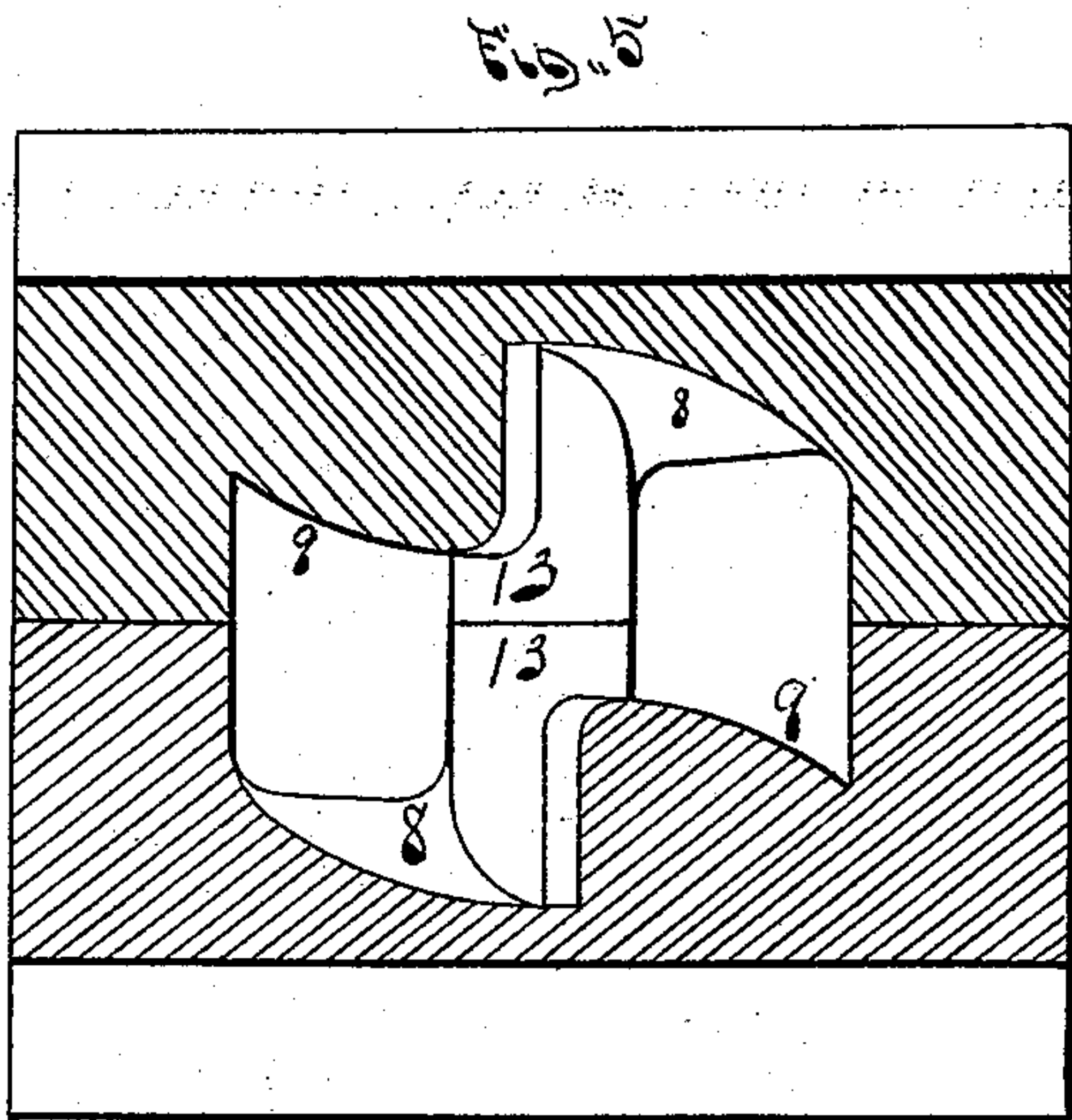
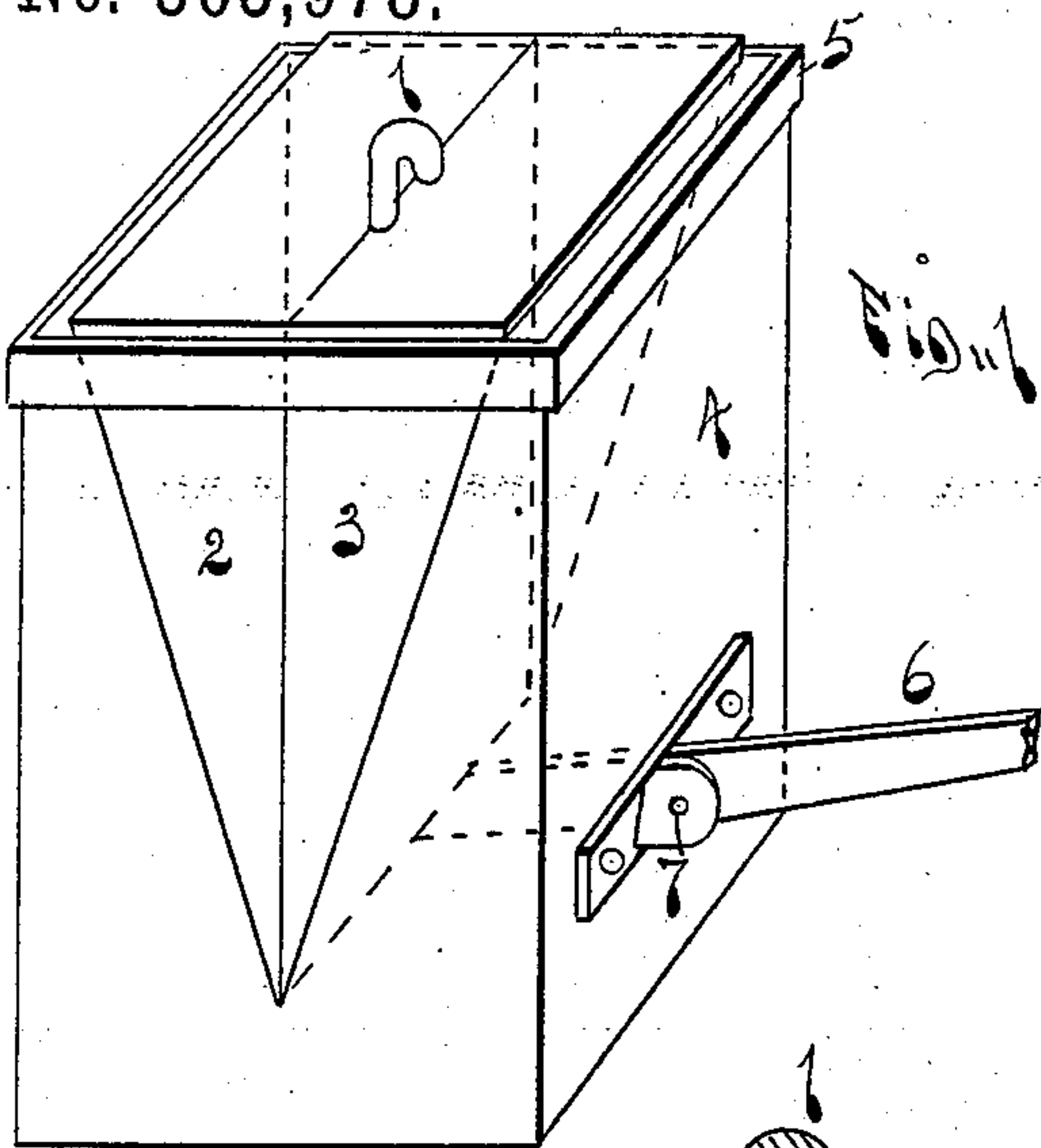


(No Model.)

J. B. BAUGH.
DIE FOR WELDING LINKS.

No. 363,978.

Patented May 31, 1887.



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UNITED STATES PATENT OFFICE.

JOHN B. BAUGH, OF DETROIT, MICHIGAN.

DIE FOR WELDING LINKS.

SPECIFICATION forming part of Letters Patent No. 363,978, dated May 31, 1887.

Application filed February 12, 1887. Serial No. 227,409. (No model.)

To all whom it may concern:

Be it known that I, JOHN B. BAUGH, of Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Dies for Welding Links, of which the following is a specification.

My invention consists in an improvement for welding links, hereinafter fully described.

Figure 1 is a perspective of the complete device. Fig. 2 is a vertical section through Fig. 1. Fig. 3 is a vertical section of part of the die at right angles with section, Fig. 2. Fig. 4 is a perspective of half of the die. Fig. 5 is a section on line *x x*, Fig. 4, through the two dies. Fig. 6 is an end view of the shape of the joint made by the die.

1 represents a bed or base of iron, preferably re-enforced by one or more iron bands, 5, provided with a V-shaped opening in its upper space, and provided with a lever, 6, pivoted to the bed by the pin 7, the construction being so far the same as shown in my Patent No. 150,221, dated April 28, 1874.

2 and 3 represent two wedge-shaped pieces of metal or dies, which, when placed in contact, fit into the V-shaped opening in the bed 4. In the flat side of each die 2 3 is formed a double groove, 12, each being half the diameter of the iron from which the link is to be made, separated by a partition, 13, and rounded at its lower end. The lower end of one groove 12 is beveled upward towards the face of the die, as shown at 9, Fig. 4, and the lower end of the other groove 12 is beveled downward from the face of the die, as shown at 8, Fig. 4. The two dies are made from the same pattern, so that when placed in contact the raised part 9 of the groove in one die comes opposite the sunken part 8 of the corresponding groove in the other die, as shown in Fig. 5.

1 represents a link. 11 represents the ends of the link after being subjected to the action of the dies, but separated to show the shape

of the joint; and 10 represents a slight upsetting of metal, also formed by the dies.

The operation of my invention is as follows:

A bar of iron is bent to a U shape, as shown at 1, Fig. 3. Its ends are heated, placed in the grooves of the dies 2 3 while the same are held in the bed 4, and the protruding end of the link is struck with a hammer, which drives the heated ends into the lower ends of the grooves, beveling the same, as shown at 11, and also slightly upsetting the same, as shown at 10, and partially welding together the ends of the link in the form of a scarf-joint, in contradistinction to the butt-joint formed by the die shown in my old patent. The dies 2 3 are now raised by means of the lever 6, the link removed from the dies, and the scarfed ends hammered in a die to complete the weld.

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

1. A die for shaping car-links, consisting of two sections, each having in its face two grooves, the bottom portion of the grooves in one section being inclined in a direction opposite to an inclined portion in the bottom portion of the grooves in the other section for forming the link-joint when the link-blank is forced into the die, substantially as described.

2. A die for shaping car-links having in its face two grooves inclined in reverse direction at their lower portions to bend the ends of the link-blank and form the link-joint when said blank is driven into the die, substantially as described.

3. The wedge-shaped dies 2 3, having therein the grooves 12, separated by the partition 13, and having at their lower end the opposite bevels 8 9, substantially as shown and described.

JOHN B. BAUGH.

Witnesses:

GEO. H. LOTHROP,
C. M. MASON.