

(No Model.)

S. H. LEA.
TOOL FOR RESEATING FAUCETS.

No. 571,572.

Patented Nov. 17, 1896.

Fig. 1.

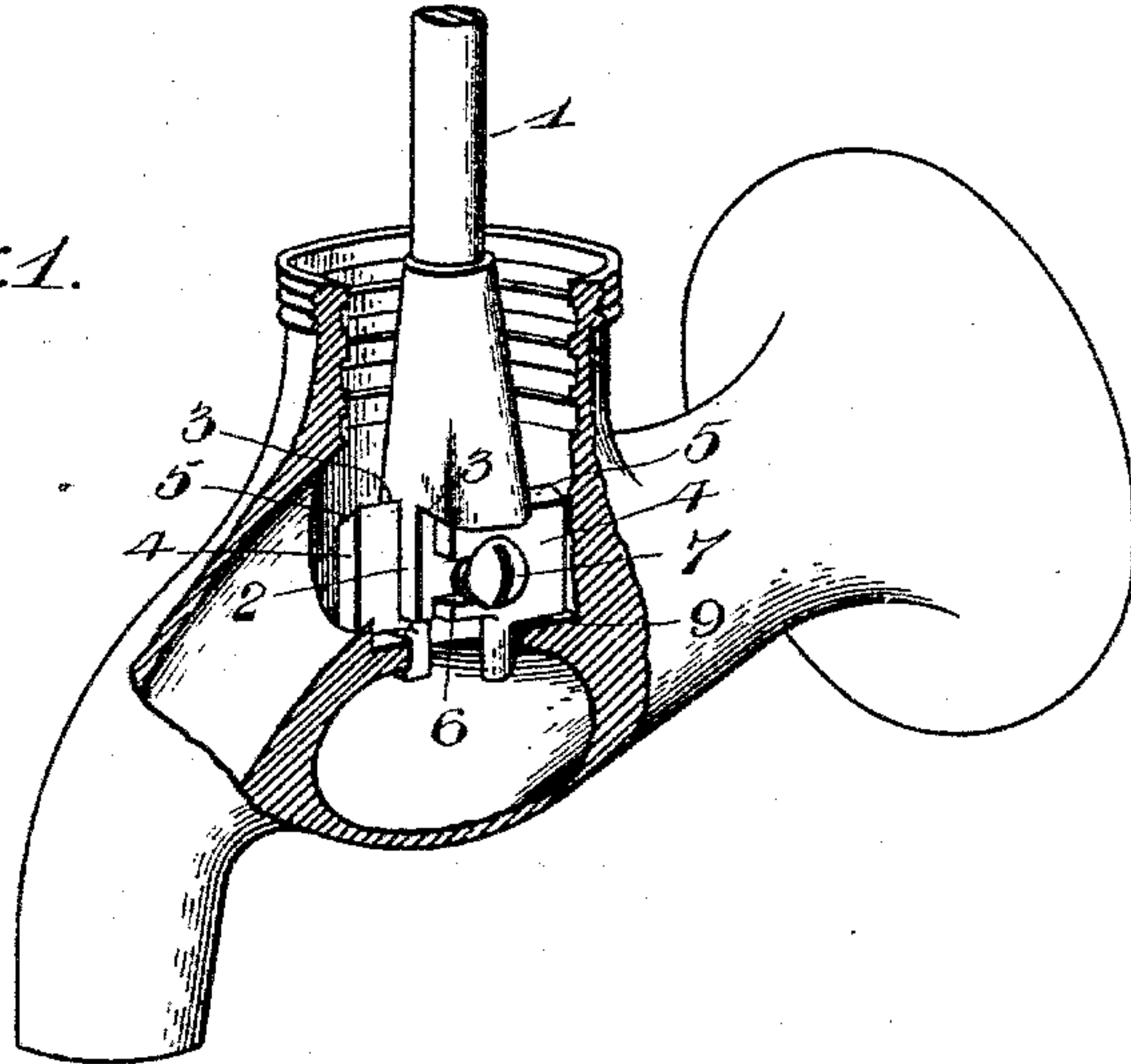


Fig. 2.

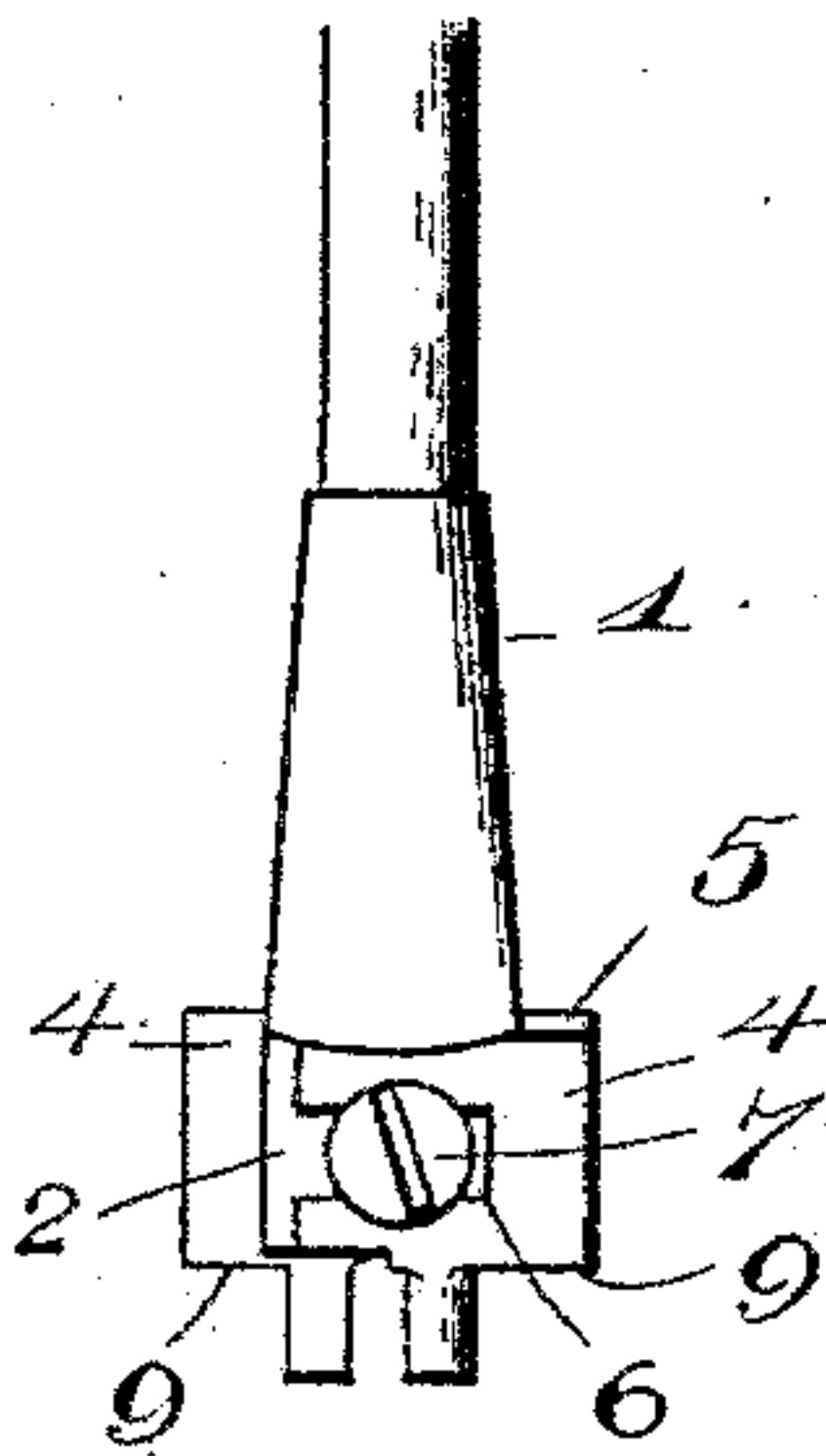


Fig. 3.

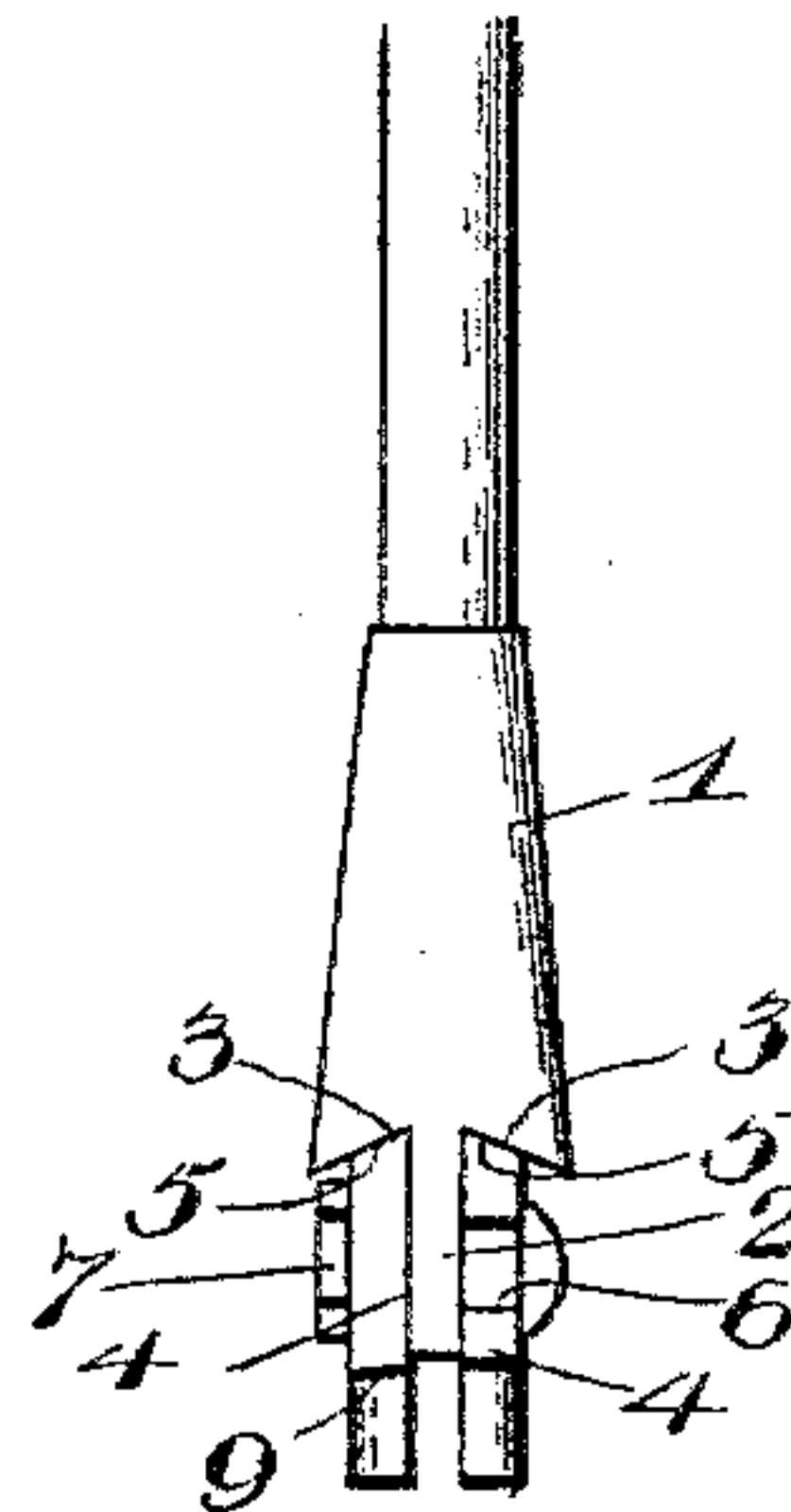


Fig. 4.

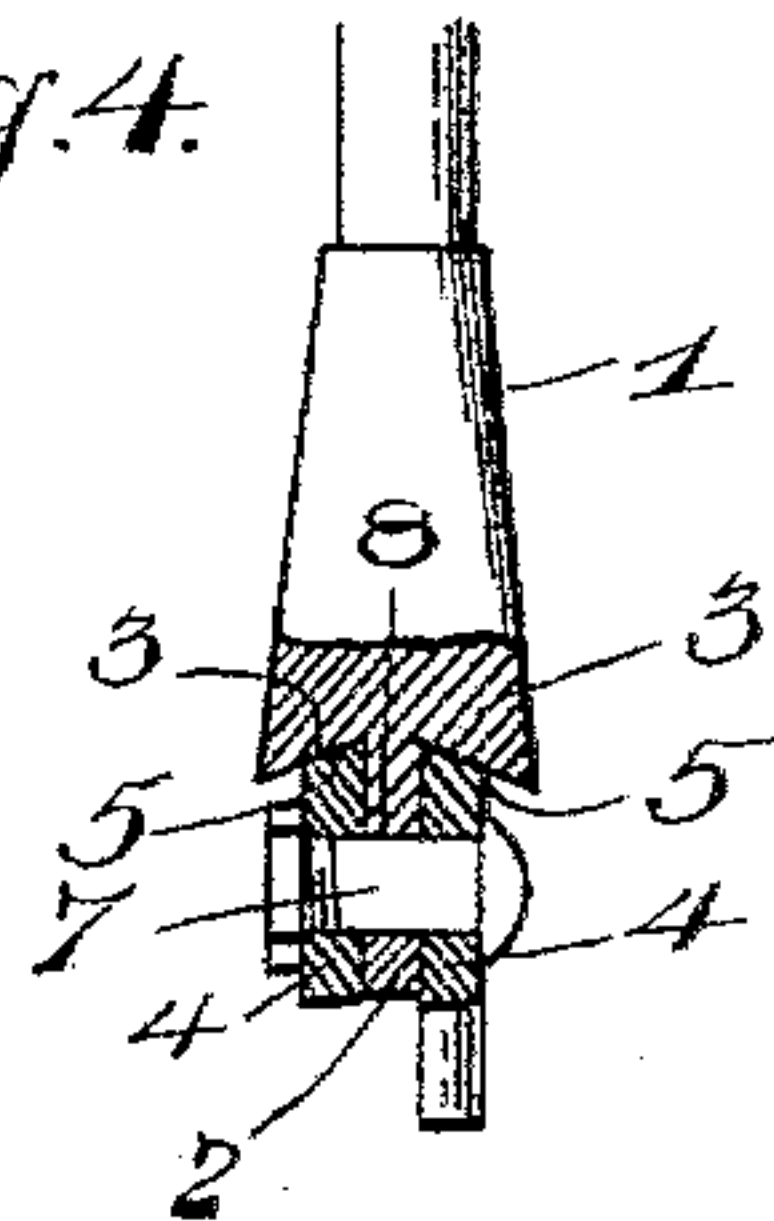


Fig. 5.

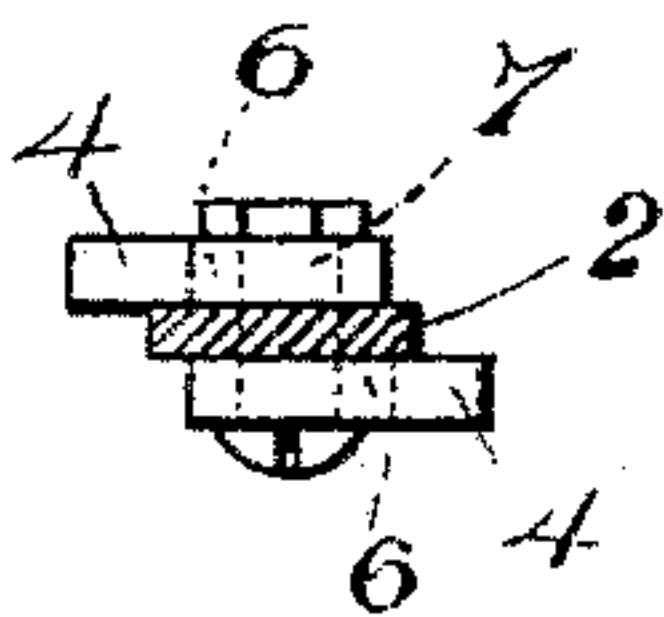
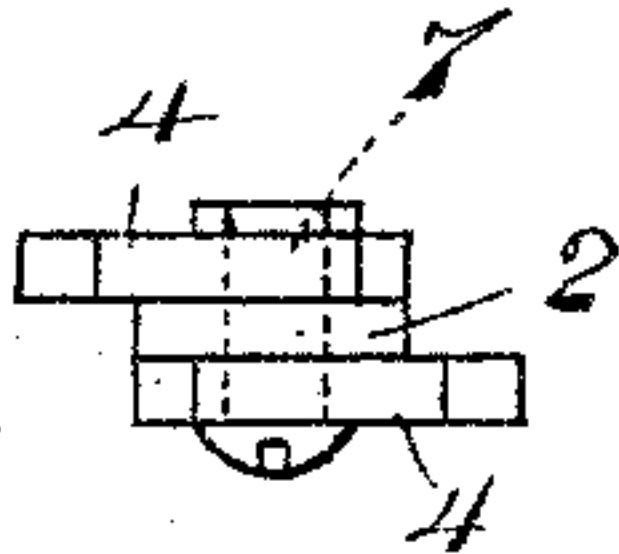


Fig. 6.



Witnesses
J. H. Boyle
J. A. Hillson.

Inventor
Samuel H. Lea.
By H. B. Willson.
Attorney

UNITED STATES PATENT OFFICE.

SAMUEL HENSHALL LEA, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO
EDWIN T. OGLE, OF SAME PLACE.

TOOL FOR RESEATING FAUCETS.

SPECIFICATION forming part of Letters Patent No. 571,572, dated November 17, 1896.

Application filed August 19, 1896. Serial No. 603,236. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL HENSHALL LEA, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Tools for Reseating Faucets; and I do 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.

My invention has relation to improvements in expansion bits or cutters for reseating the valve-seats of faucets; and the object of my invention is to provide an expansible or adjustable tool for "truing up" the worn valve-seats of the faucets used in dwellings on the hot and cold water service-pipes.

To this end the novelty consists in the construction, combination, and arrangement of the same, as will be hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings the same figures of reference indicate the same parts of the invention.

Figure 1 is a perspective view of my improved bit or cutter in position for reseating the valve-seat of any ordinary faucet. Fig. 2 is a side elevation of the bit. Fig. 3 is an end view of the same. Fig. 4 is a transverse section. Fig. 5 is a top plan view, and Fig. 6 is a top plan view showing the bit adjusted to two different-sized valve-seats.

1 represents the shank, formed with a central transverse rib 2, and on each side of this rib is a beveled shoulder 3.

4 4 represent the cutters, one being a duplicate of the other. The base 5 of these cutters is beveled, as shown, to correspond to the bevel of the shoulder 3 in which it rests.

6 is a longitudinal slot or recess in the cutters, which engage the bolt 7, passing through the central orifice 8 in the rib 2, one cutter being held in place by the head of the bolt and the opposite one by the nut on the bolt.

Each cutter is formed with a cutting edge 9 and an integral stud or pin rounded, as shown, on their outer sides where they come in contact with the orifice in the valve-seat, and which form guides for the cutters when at work.

In operation the nut on the bolt 7 is first loosened and the guide-pins adjusted to correspond to the diameter of the orifice in the valve-seat to be recut. The nut is then tightened, which firmly clamps the cutters 4 4 to the rib 2. In Fig. 6 I have shown in outline two different adjustments of the cutters. The tool is then rotated steadily to the right until a sufficient amount of the metal is taken off of the face of the valve-seat to leave a perfect plane, which completes the operation.

The faucets may be recut without removing them from the pipes, and as the cutters are adjustable faucets of various sizes may be recut with the same tool without the necessity of employing a different-sized tool where the cutters are rigid, as is now the case. The cutters can be readily removed for sharpening when necessary.

Although I have specifically described the construction and relative arrangement of the several elements of my invention, I do not desire to be confined to the same, as such changes or modifications may be made as clearly fall within the scope of my invention without departing from the spirit thereof.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

1. A new article of manufacture, a bit for reseating faucets, comprising a shank having a central rib, in combination with a pair of adjustable cutter-blades having guide-pins, and a retaining-bolt for adjustably securing the blades to the shank, substantially as shown and described.

2. A shank having beveled shoulders and a central rib formed with an orifice, a pair of adjustable cutter-blades having bolt-recesses and guide-pins, and a retaining-bolt passing through said orifice and recesses, substantially as set forth.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

SAMUEL HENSHALL LEA.

Witnesses:

LOUIS B. DENNINGS,
J. B. GERETY.