

No. 672,869.

Patented Apr. 23, 1901.

S. S. BOLSINGER.
BOLT CUTTER.

(Application filed Nov. 30, 1900.)

(No Model.)

Fig. 3.

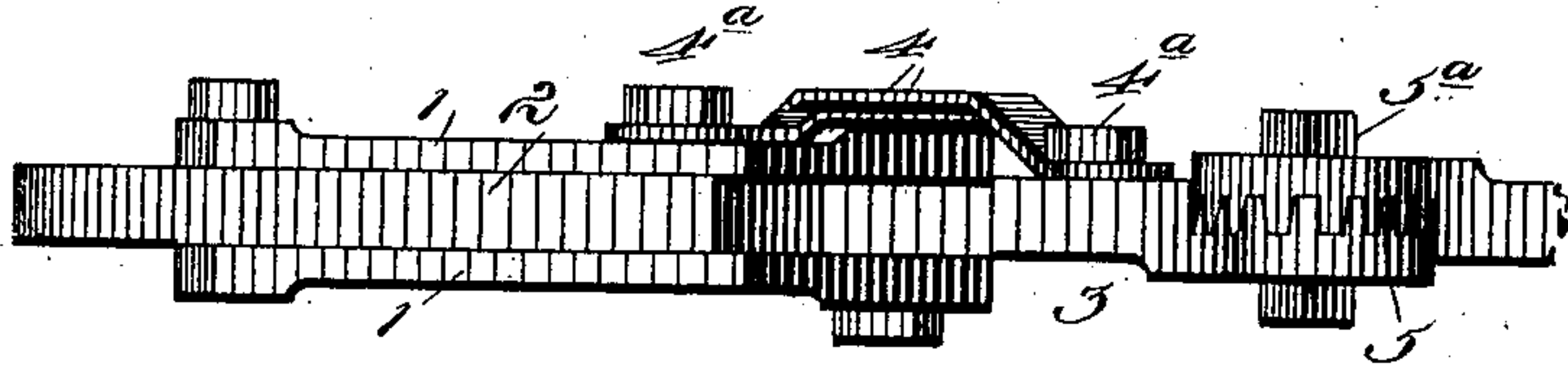


Fig. 2.

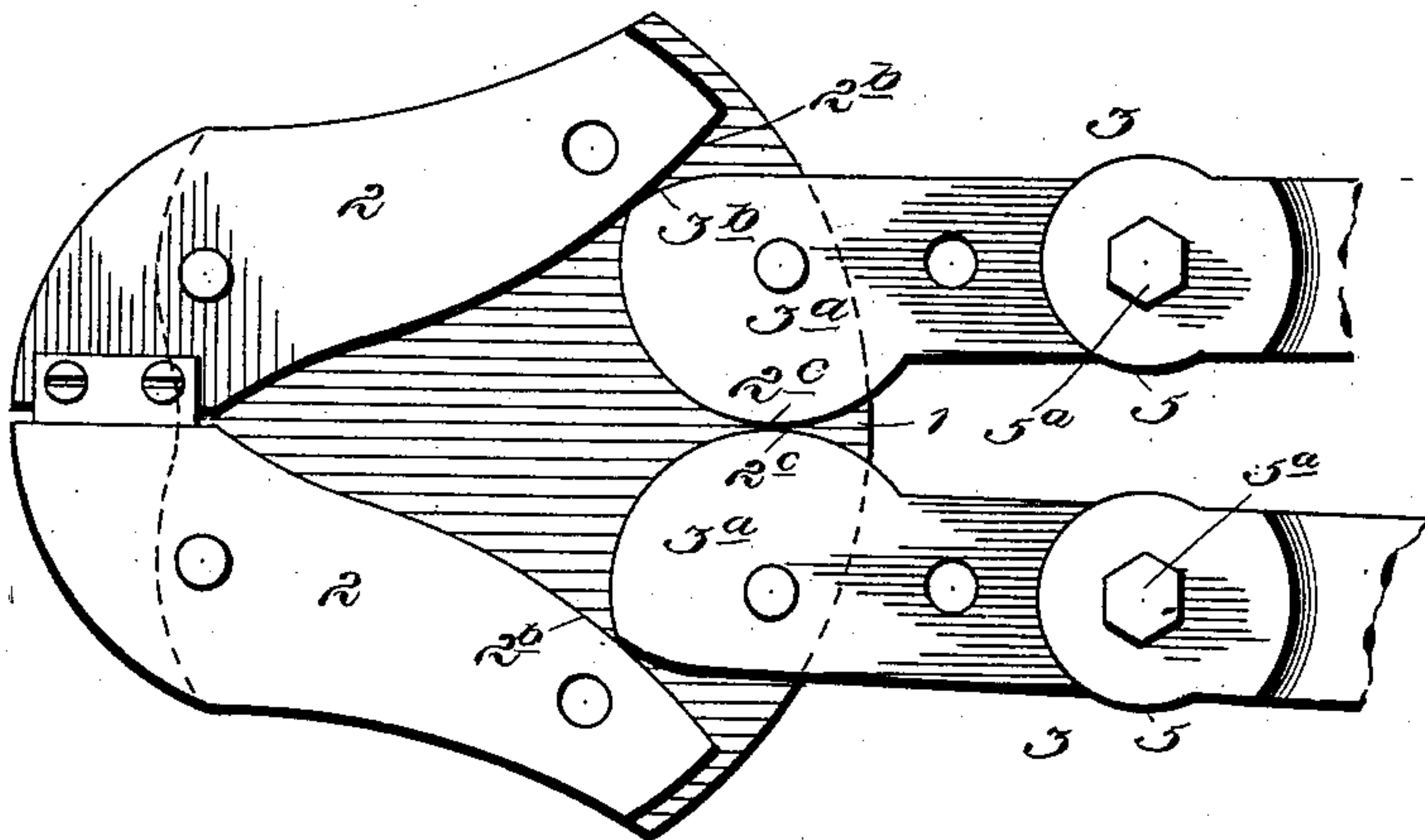
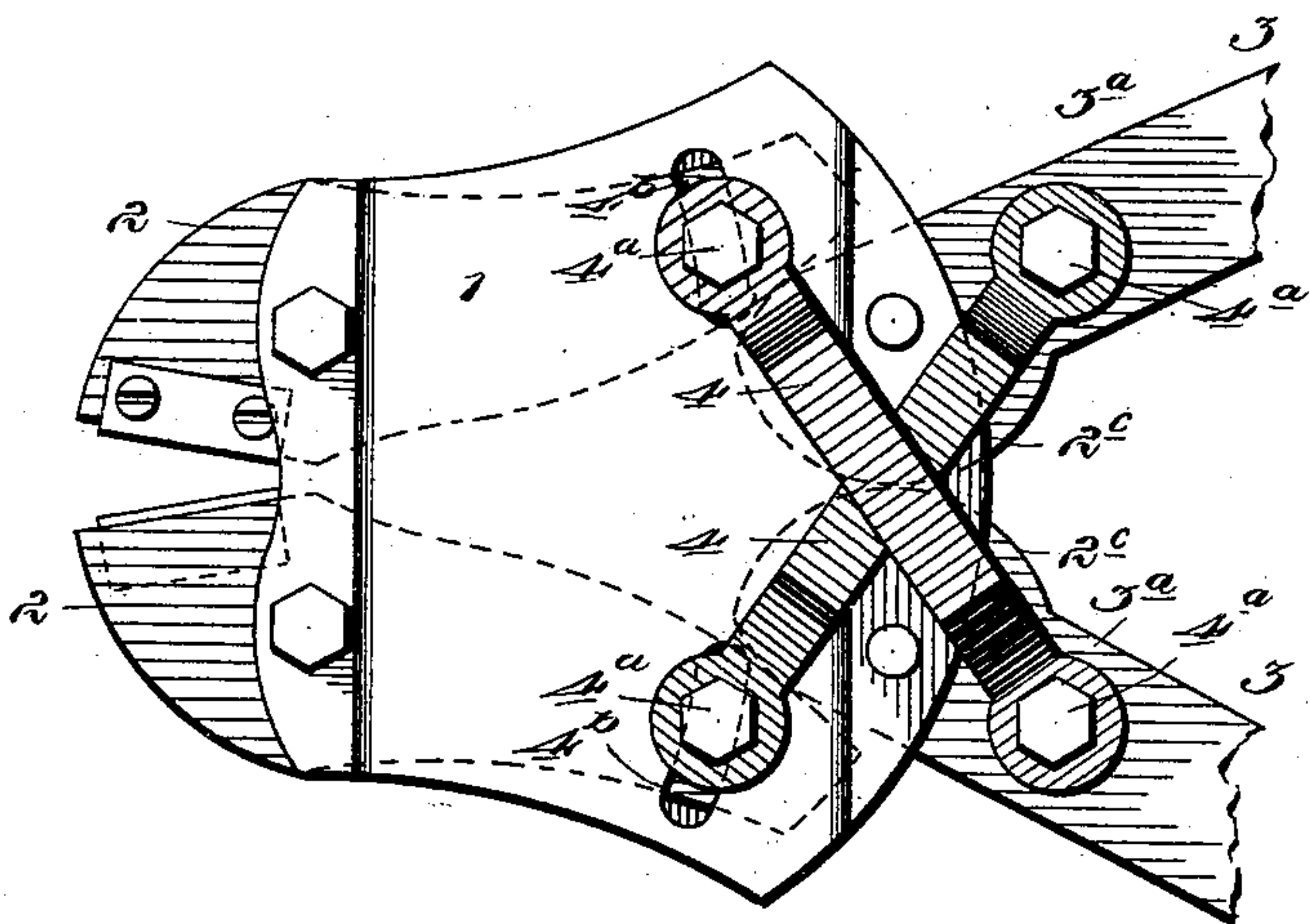


Fig. 1.



Witnesses
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UNITED STATES PATENT OFFICE.

SAMUEL S. BOLSINGER, OF BROCKWAY, OREGON.

BOLT-CUTTER.

SPECIFICATION forming part of Letters Patent No. 672,869, dated April 23, 1901.

Application filed November 30, 1900. Serial No. 38,205. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL S. BOLSINGER, a citizen of the United States, residing at Brockway, in the county of Douglas and State of Oregon, have invented certain new and useful Improvements in Bolt-Cutters; 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.

My invention relates to improvements in bolt or rod cutters. It provides for readily and effectively severing the bolt or rod, as intimated, and for securing the proper application of the leverage or power to aid the cutting operation, while simplicity, cheapness, and reduced cost of manufacture are obtained.

It consists of the detailed construction, combination, and arrangement of the parts for accomplishing the above ends or objects, substantially as hereinafter more fully disclosed, and specifically pointed out by the claims.

In the accompanying drawings, illustrating the preferred form of my invention, Figure 1 is a broken side elevation thereof, the jaws being shown open. Fig. 2 is a broken side view with a side plate, &c., removed, the jaws being shown closed. Fig. 3 is an edge view of the invention.

Latitude is allowed herein as to details, as they may be changed or varied at will without departing from the spirit of my invention and the same yet remain intact and be protected.

In carrying out my invention I pivot between suitably connected or bolted together guide-plates 1 two jaws or cutters 2, preferably provided with removable cutters, which when the jaws are open are adapted to receive between them the bolt or rod to be cut, the lower opposed portions or edges of said jaws being rounded, as at 2^b, the purpose of which will appear farther on.

The handles or levers 3 are each preferably in two parts, the outer end portions 3^a, constituting cams, eccentrically pivoted between the guide-plates 1, with outer convex or rounded edges 3^b, adapted to engage the rounded edges 2^b of the jaws or cutters 2, and

inner corresponding edges or faces 2^c, adapted to roll or bear upon each other primarily to exert leverage or power upon and effect the opening and closing of the said cutters or jaws and to secure the maximum cutting action of the latter when first or initially engaging the bolt or rod to be cut when most required and incidentally to facilitate the movement of the parts, dispensing with cogs, &c., therebetween. The jaws or cutters being arranged laterally or outside of the cam-end portions of the handles or levers, it will be seen that the latter can be brought toward each other, thereby effecting the cutting action by said jaws or cutters with the minimum movement of the hand, consequently to the greatest advantage. This is apparent from the fact that such movement of said handles, whose cam ends engage the longer arms of the cutters or jaws to bring the cutting edges of said cutters together, is effected by the contraction of the hand, as in grasping an article and in bringing the fingers toward the palm, as contradistinguished from the use of the hands in moving the handles or levers apart.

The jaws or cutters and handles are connected up or together by means of crossing links 4 to provide for holding them mutually in engagement as the handles are actuated, said links being slipped upon suitably headed bolts or studs 4^a, secured or screwed to said jaws and handles, respectively, the bolts or studs connected to said jaws moving in arcuate or curved slots 4^b in one of the guide-plates 1 to accommodate the movement of said jaws.

The handles or levers 3 each have their hand-grasping and cam-ended portions halved and toothed or cogged together, as at 5, with adjusting-bolts 5^a passing there-through, to provide for varying the angle of connection therebetween to accordingly accommodate the grasping of said handles in compensating for wear of the cutting edges or faces of the cutter or jaws.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A bolt or rod cutter, comprising jaws or cutters, handles or levers having outer end

cam portions adapted to engage said jaws, and crossing links connecting with said jaws and handles or levers, respectively, substantially as set forth.

- 5 2. A bolt or rod cutter, comprising jaws or cutters, guide-plates one having arcuate or curved slots, handles or levers adapted to engage said jaws or cutters, and crossing links, with the connections between them and

said jaws or cutters which pass through said slots, substantially as specified.

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

SAMUEL S. BOLSINGER.

Witnesses:

E. H. LEMON,
GEO. BYRON.