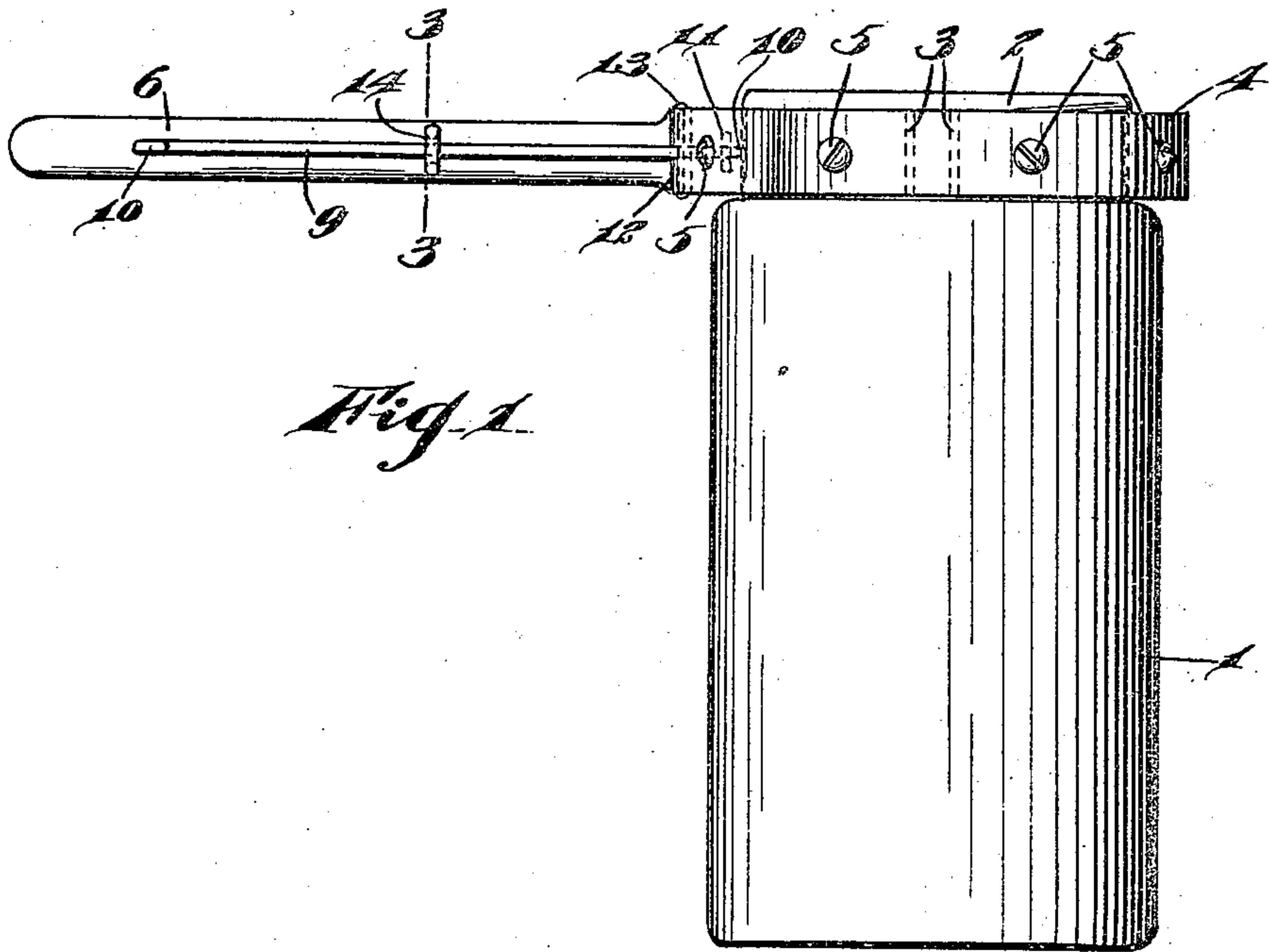


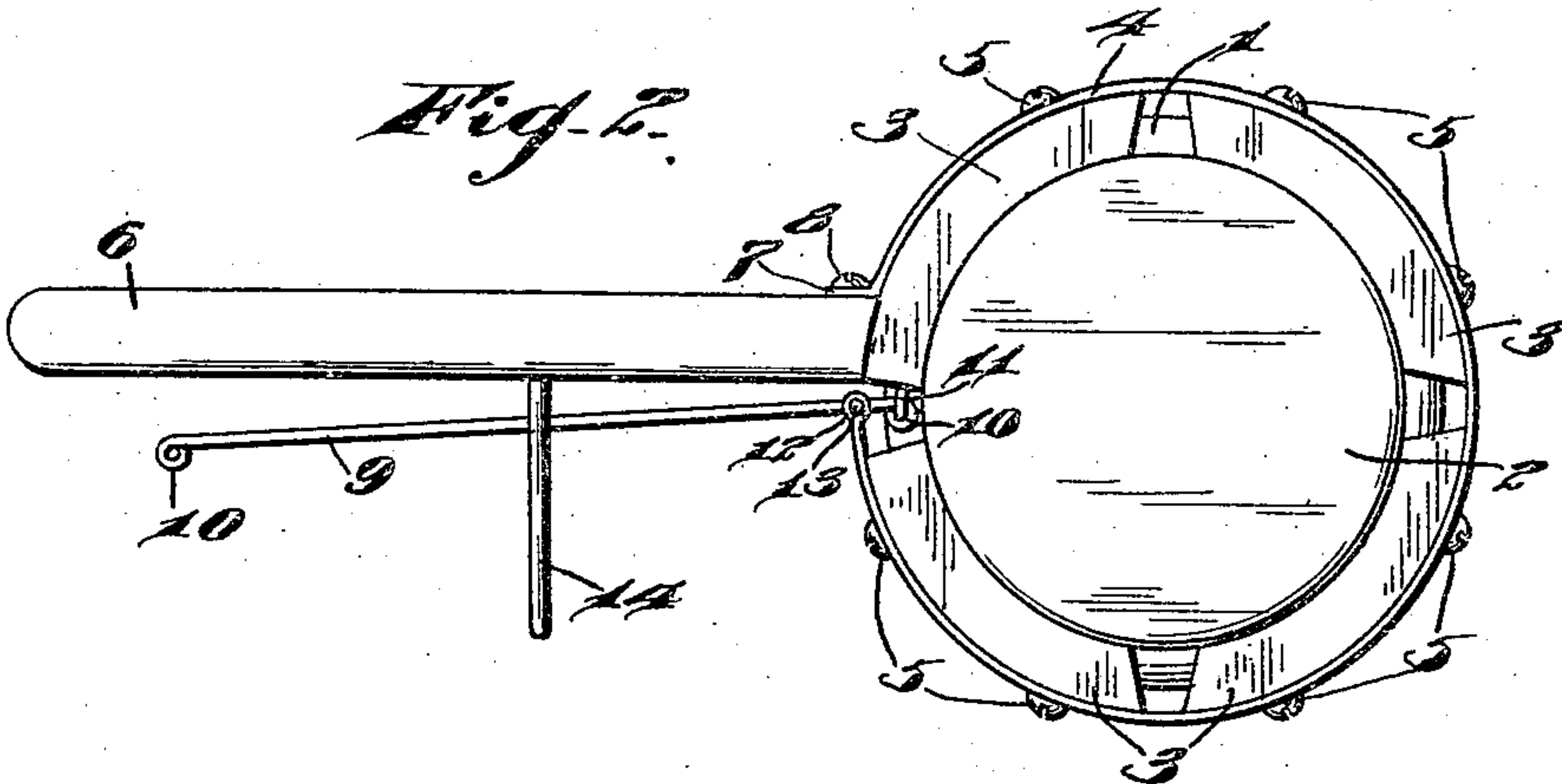
E. SMITH.  
JAR CAP WRENCH.  
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951,204.

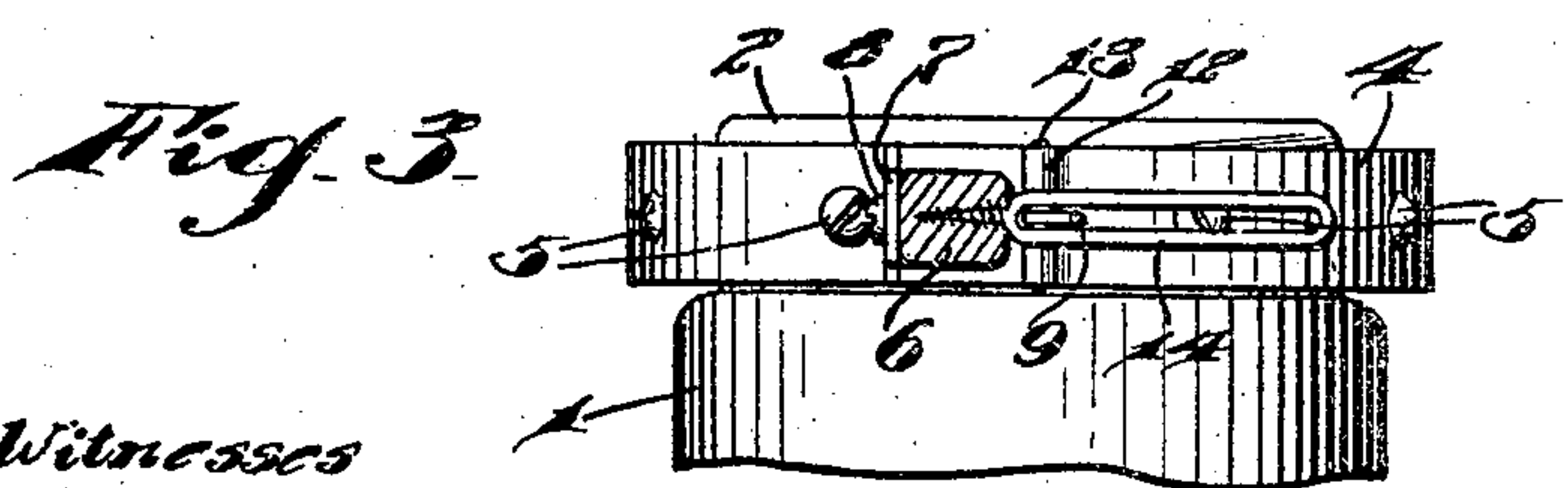
Patented Mar. 8, 1910.



*Fig. 1*



*Fig. 2*



*Fig. 3*

Witnesses

Thos. Greemann.  
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Inventor

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# UNITED STATES PATENT OFFICE.

ELIAS SMITH, OF SKINNERS EDDY, PENNSYLVANIA.

JAR-CAP WRENCH.

951,204.

Specification of Letters Patent.

Patented Mar. 8, 1910.

Application filed December 6, 1909. Serial No. 531,669.

*To all whom it may concern:*

Be it known that I, ELIAS SMITH, a citizen of the United States, residing at Skinners Eddy, in the county of Wyoming and State of Pennsylvania, have invented certain new and useful Improvements in Jar-Cap Wrenches, of which the following is a specification.

My invention relates to an improved jar cap wrench, the object of the invention being to provide a device of this character which can be readily placed in position around the cap or closure of a preserving jar and the like, and which can be operated to securely clamp said closure to screw the latter tightly into place or remove it from the jar without injury to the cap, the jar or the rubber gasket between them.

A further object is to provide an improved device of this character which is extremely simple and inexpensive in construction, and one that is strong and durable and not liable to get out of order.

With these and other objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described and pointed out in the claim.

In the accompanying drawings: Figure 1 is a view in side elevation illustrating my improved device in position clamping the cap or closure of a jar. Fig. 2 is a top plan view of Fig. 1, and Fig. 3 is a view in section on the line 3—3 of Fig. 1.

1 represents an ordinary preserving jar, and 2 an ordinary screw cap or closure thereon.

My improved wrench comprises four segmental blocks, 3, all curved concentrically and spaced apart. 4 represents a steel or other spring band which is positioned around the outside of all of said segmental blocks and secured by screws, or other suitable devices 5, to the rear faces of said blocks, and the normal tendency of said spring is to spring outward, so as to increase the diameter of the circle formed by said segmental blocks.

6 represents a handle which is integral with one of the blocks at 3 at the end there-

of, and one end of the spring band 4 is bent against the handle as shown at 7 and secured by means of a screw 8. A lever 9 is bent at both ends forming eyes 10, the eye 10 at one end being coupled to an eye 11, secured to the end of the block 3, with which handle 6 is integral, and one end of the spring band 4 projects beyond a block 3, is bifurcated and bent forming cylindrical bearings 12, into which a pin 13 is positioned and secured to lever 9, so that when the lever 9 is swung on its fulcrum 10—11, the spring will be pulled toward or moved away from handle 6.

14 represents a screw eye forming a loop, and is driven into handle 6 and through this loop the lever 9 is adapted to move.

The operation is as follows: When permitted, the spring band 4 will expand the circle formed by the segmental blocks 3, so as to enable the blocks to be positioned around the cap or closure 2. The operator then grasps handle 6, engages lever 9 with his fingers and draws the lever toward the handle, thus drawing the free end of spring band 4 toward the handle and reducing the diameter of the circle formed of blocks 3, hence securely clamping the blocks against the outer face of the cap or closure, and while so clamped the handle 6 may be swung in one direction or the other, accordingly as it is desired to remove or screw home the cap.

Various slight changes might be made in the general form and arrangement of parts described without departing from my invention, and hence I do not restrict myself to the precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claim.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:—

A device of the character described, comprising a circular series of segmentally curved blocks spaced apart, a handle integral with one of said blocks, a spring band secured to said handle and to the outer faces of all of said blocks, and projecting beyond one of said blocks adjacent the handle, an eye in the end of the block with which said

handle is integral, a lever having an eye at one end coupled in the first mentioned eye and fulcruming said lever, a loop secured to said handle and through which said lever projects, and a pin pivotally connecting the free end of said spring band with said lever, between the point where the lever is fulcrumed and the free end of the lever.

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

ELIAS SMITH.

Witnesses:

FRED WRIGHT,  
OLIVER B. RAKE.