

T. HIPWELL.  
Fruit-Jar Caps.

No. 153,077.

Patented July 14, 1874.

FIG. 1.

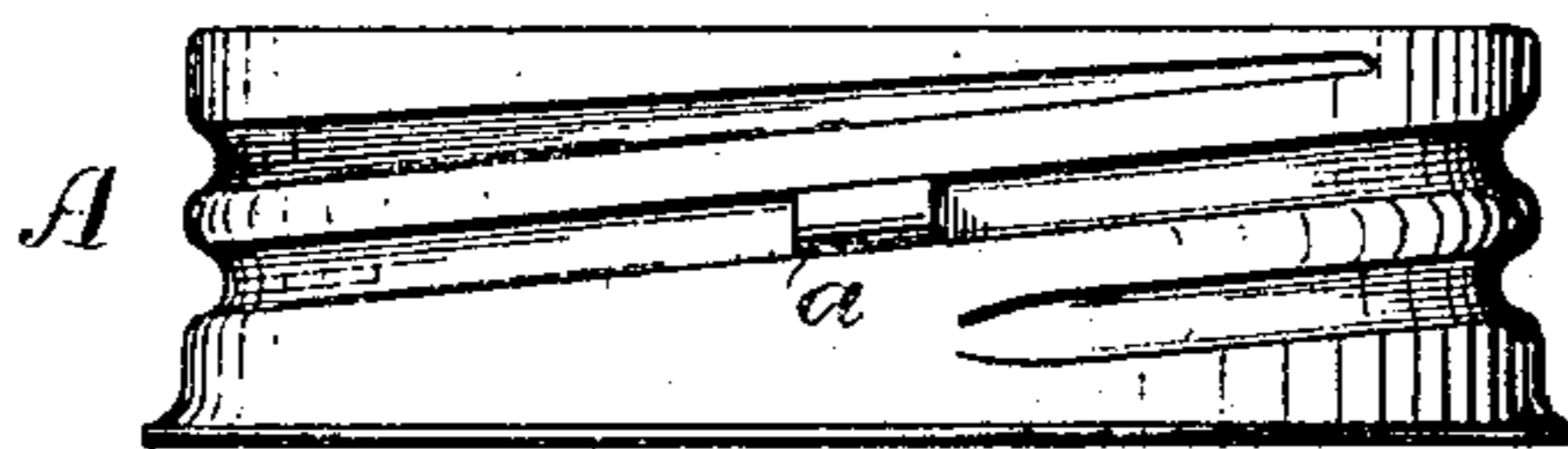


FIG. 2.

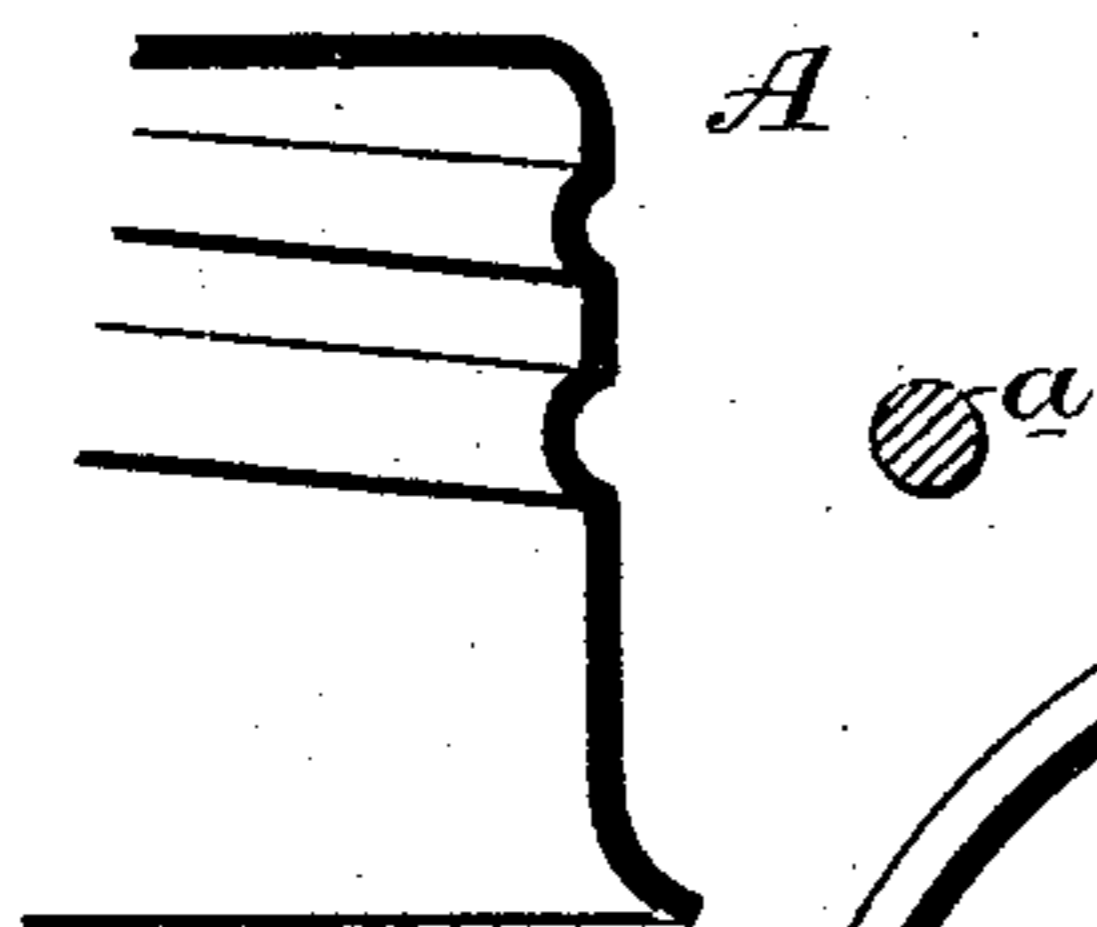


FIG. 3.

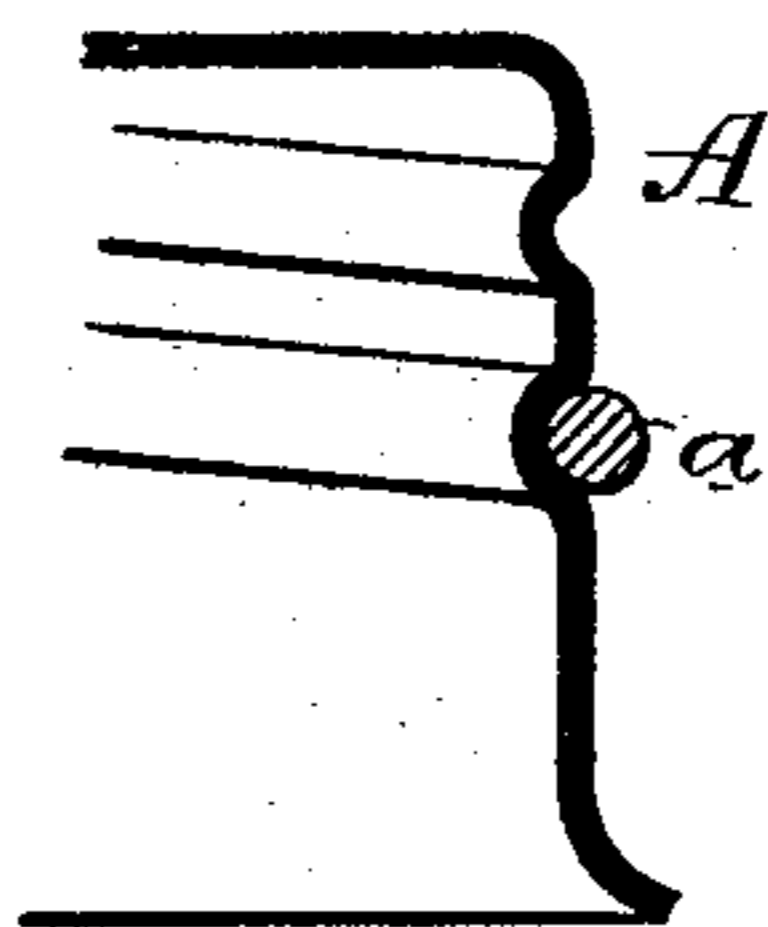
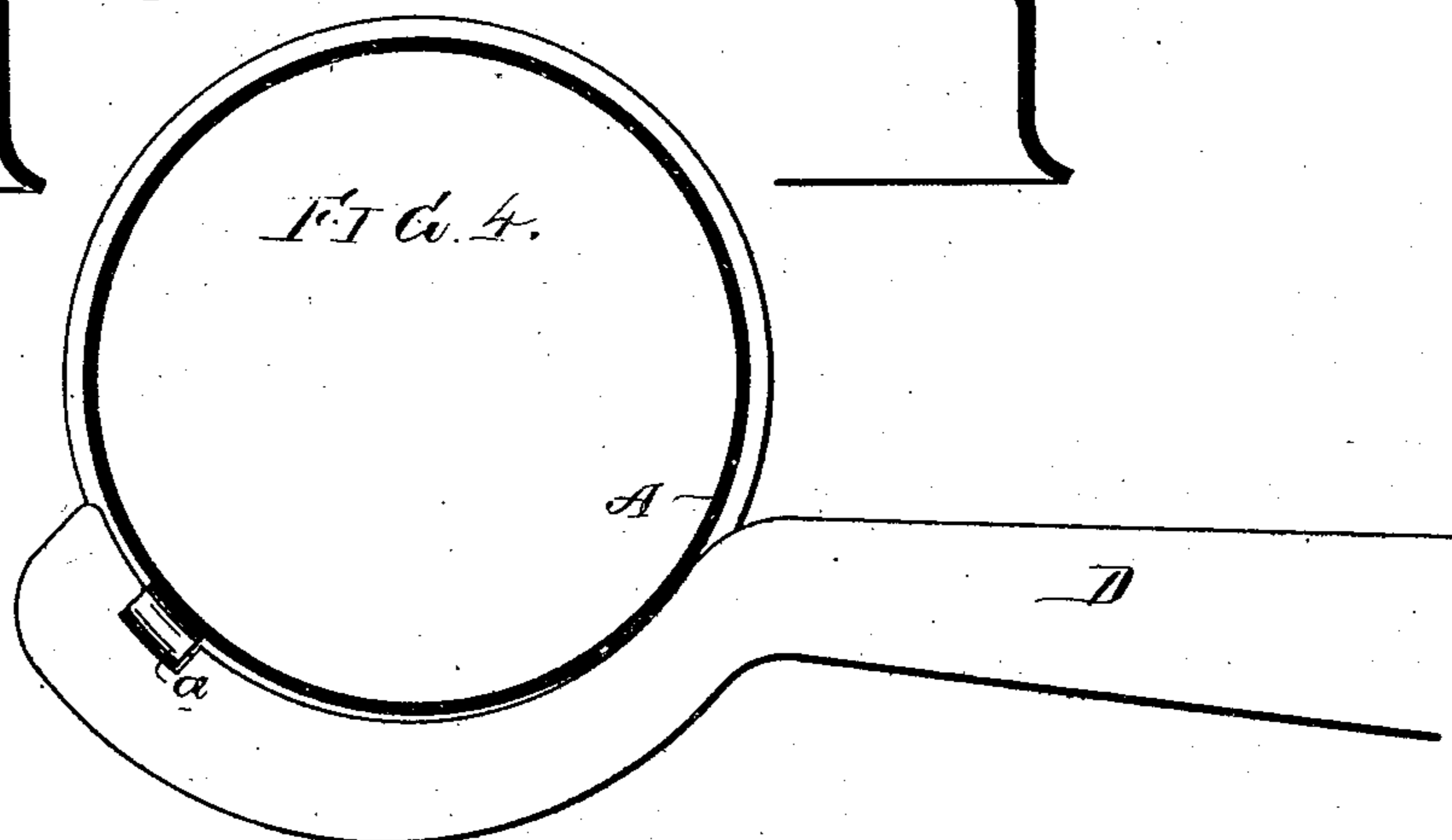


FIG. 4.



Witnesses, Harry Smith  
Thomas McLean

Thomas Hipwell  
By his attys.  
Horsell and Son.

# UNITED STATES PATENT OFFICE.

THOMAS HIPWELL, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO S. B. ROWLEY, OF SAME PLACE.

## IMPROVEMENT IN FRUIT-JAR CAPS.

Specification forming part of Letters Patent No. **153,077**, dated July 14, 1874; application filed May 14, 1874.

*To all whom it may concern:*

Be it known that I, THOMAS HIPWELL, of Philadelphia, Pennsylvania, have invented an Improvement in Sheet-Metal Screw-Caps, of which the following is a specification:

The object of my invention is the secure attachment to a sheet-metal screw-cap or ring of a lug which will permit the use of a key for screwing and unscrewing the cap without danger of detaching or bending the said lug. I attain this object by a short piece, *a*, of solid wire, adapted and soldered to the sunken thread of a screw-cap, *A*, as shown in the front view, Fig. 1, and in the enlarged sectional views, Figs. 2 and 3, of the accompanying drawing.

Considerable difficulty is experienced in screwing the sheet-metal rings and caps of fruit-jars tight to their bearings, and especially in unscrewing them by grasping them in the hand. Hence, it has been the practice to attach to them lugs, against which an instrument for screwing and unscrewing the caps can be brought to bear. As these lugs have to resist much of the force exerted to unscrew the cap, and to screw it tight, it is important

that they should be firmly secured. Hence, I take a solid piece of wire, *a*, adapted to the shape of the sunken thread, and, fitting it into the latter, solder it there throughout the entire length of said piece of wire. As one-half, or nearly one-half, of the circumference of the wire is thus soldered in and to the sunken thread of the cap, its security is such as to enable it to effectually resist the action of the key *D*, (shown in the plan view, Fig. 4,) the key being thin enough to enter the sunken thread, so that it can bear on nearly the entire surface presented by the end of the wire.

I claim as my invention—

The combination, with a sheet-metal screw-cap or ring, of a solid piece of wire, *a*, lying in, and soldered to, the sunken thread of the cap, as and for the purpose herein set forth.

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

THOS. HIPWELL.

Witnesses:

WM. A. STEEL,  
HARRY SMITH.