

J. WAPPENSTEIN.  
METALLIC SEAL.

No. 87,017.

Patented Feb. 16, 1869.

Fig. 1.

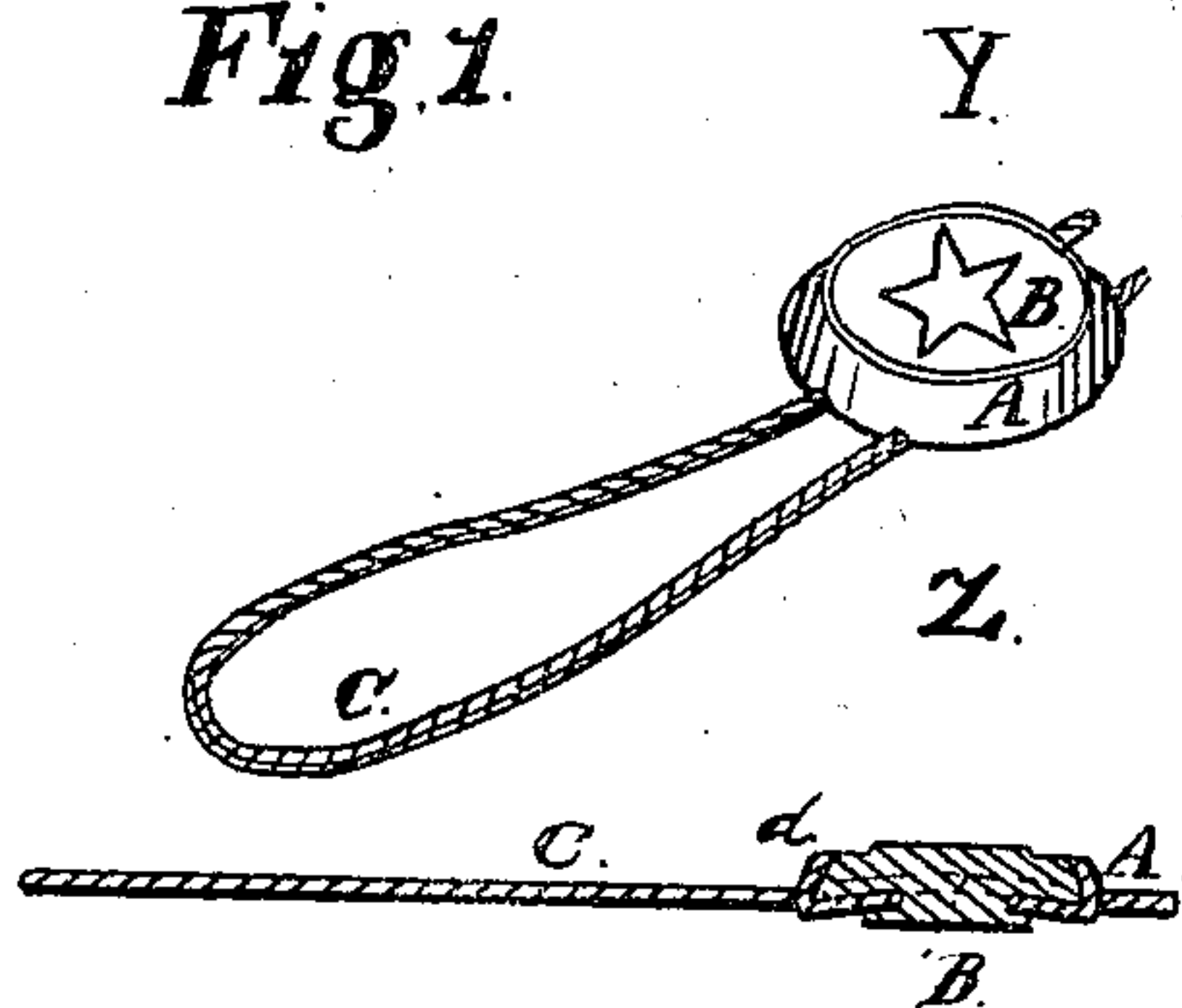


Fig. 2.

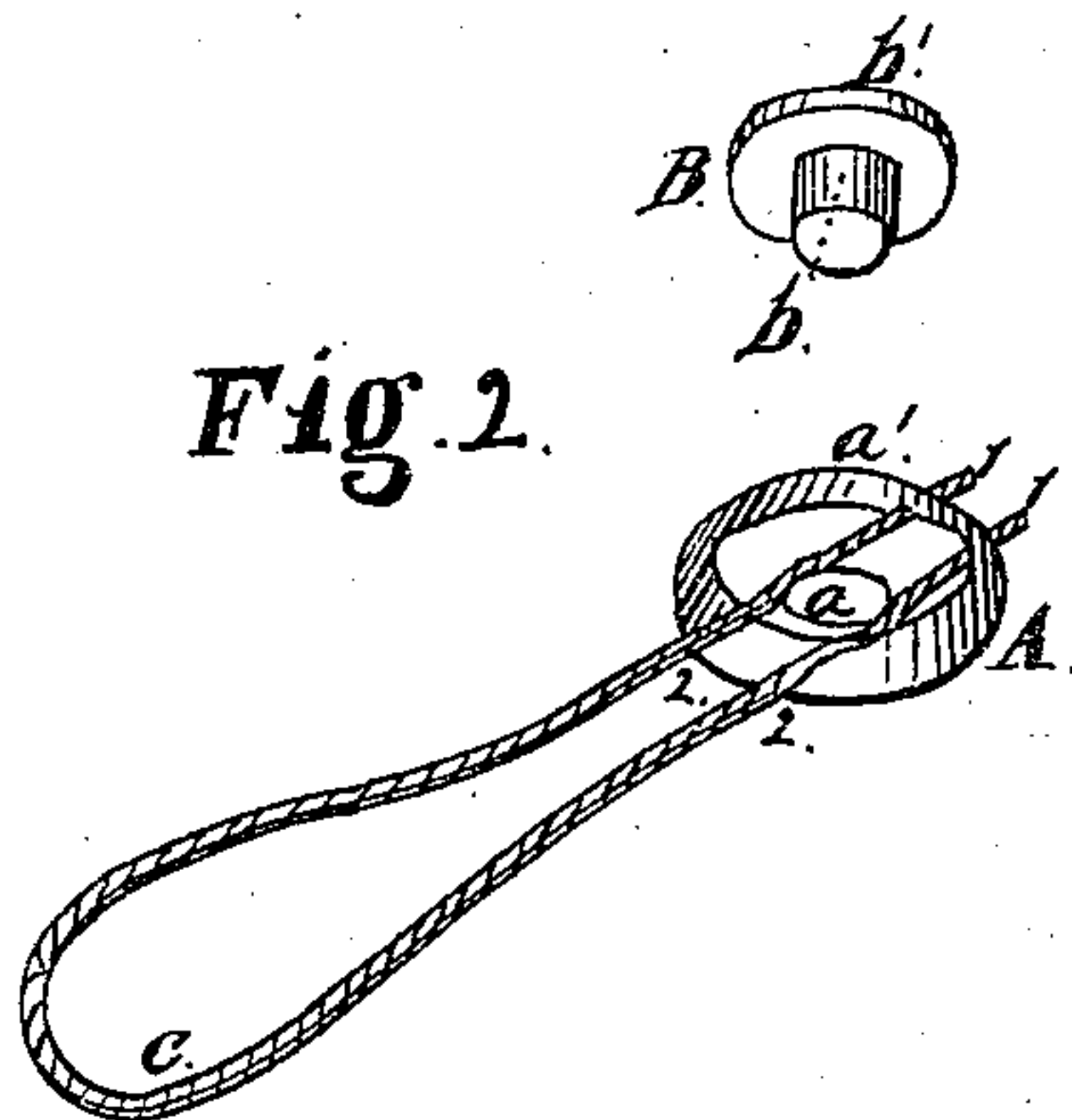
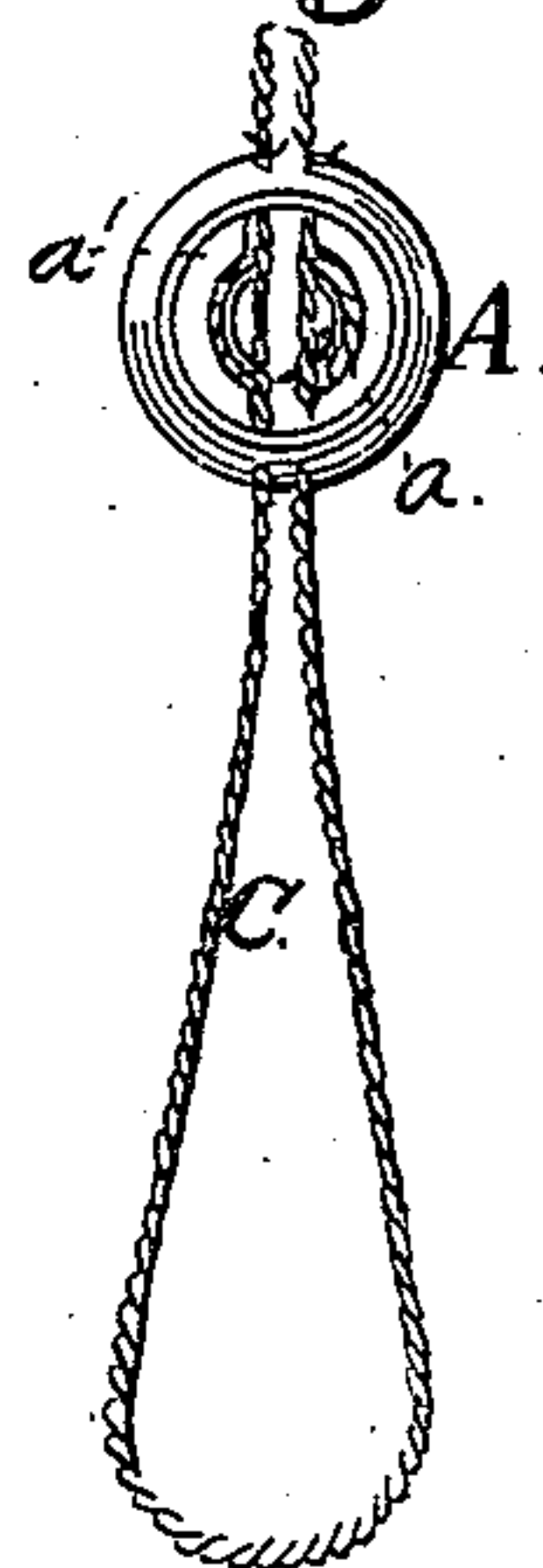


Fig. 3.



Attest

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*Letters Patent No. 87,017, dated February 16, 1869; antedated February 8, 1869.*

**IMPROVEMENT IN METALLIC SEALS.**

The Schedule referred to in these Letters Patent and making part of the same.

*To whom it may concern:*

Be it known that I, JOSEPH WAPPENSTEIN, of Cincinnati, Hamilton county, and State of Ohio, have invented a certain new and useful Metallic Seal; and do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification.

This is an improvement in the class of devices made the subject of a patent to me, on the 17th of March, 1857.

In the drawings—

Figure 1 represents the complete seal, in perspective at A, and axial section at B.

Figure 2 is a perspective view of the several parts detached.

Figure 3 is a plan view, with the soft-metal plug removed, showing in different colors the positions of the wire connection before and after the introduction of said plug, as hereinafter more fully described.

Inasmuch as seals made in my present improved form embody several features of that originally patented, I will follow the terms and descriptions of said patent, so far as they are applicable to the present case.

A is a button or bezel, stamped in annular form out of brass or other suitable hard metal, that is to say, with a hole, *a*, punched out of its centre, and a flange, *a'*, turned upon its periphery.

B is a plug, made of lead or other soft metal, having a shank, *b*, of just the diameter to fit the hole *a*, and a head, *b'*, to fit within the flange *a'*.

So far as above described, the device corresponds substantially with that of my patent aforesaid, but it differs from said device in the provision of two pairs of holes, 1 1 and 2 2, on opposite sides of the button, the individual holes 1 1 or 2 2 of each pair being some-

what closer to each other than the diameter of the shank *b*.

Through these holes I insert the extremities of a twisted wire, C, preferably of two or more strands, said wire having been previously looped through the parts of the package desired to be closed thereby.

Previous to or after insertion, as aforesaid, the parts of the wire C, in the immediate vicinity of the hole *a* are bent or bowed outward, as shown in red in fig. 3, so as to admit the plug, and so as, when the plug is stamped, as hereafter explained, to anchor the wire securely within the substance of the seal, and to prevent its removal without destruction of the seal.

The parts having been placed as above, are inserted with the shank *b* uppermost, in a suitable press, by means of which the soft-metal plug is spread, so as to secure the parts together, the face of the seal being at the same time imprinted with any desired impression.

By means of the twisted-wire loop caused to enter the orifices 1 1 and 2 2, and being bent past the shank *b*, I am enabled to attach or apply my seal much more rapidly, and also more securely than in my former device.

I claim herein as new, and of my invention—

The combination, with the hard-metal annular button A *a a'* and soft-metal plug B *b*, adapted to be united in the manner described, of the perforations 1, 2, and wire loop C, substantially as and for the purposes specified.

In testimony of which invention, I hereunto set my hand.

JOSEPH WAPPENSTEIN.

Witnesses:

GEO. H. KNIGHT,  
JAMES H. LAYMAN.