

A. FRIEDRICK.
METALLIC-SEALS.

No. 176,290

Patented April 18, 1876.

Fig. 1.

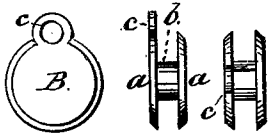


Fig. 2.

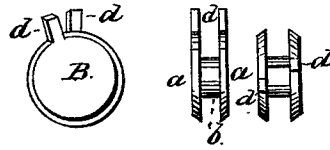


Fig. 3.

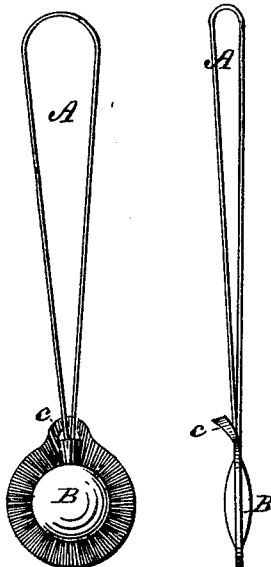


Fig. 4.

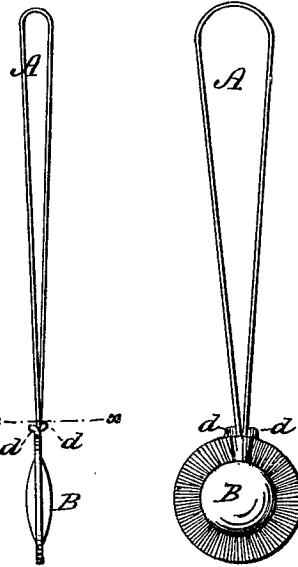
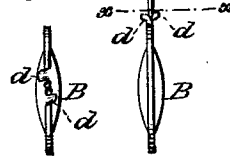


Fig. 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ALPHONSE FRIEDRICK, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN METALLIC SEALS.

Specification forming part of Letters Patent No. **176,290**, dated April 18, 1876; application filed March 21, 1876.

To all whom it may concern:

Be it known that I, ALPHONSE FRIEDRICK, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Metallic Seal; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 shows, respectively, a side, edge, and end view of my improved form of soft-metal button for a metallic seal. Fig. 2 shows a side, edge, and end view of a modification. Fig. 3 shows a side and edge view of the form of button shown in Fig. 1 compressed about the shackle-wire. Fig. 4 shows a side and edge view of the modification shown in Fig. 2, compressed about the shackle-wire. Fig. 5 is an end view of Fig. 4, taken on the section line *xx*, through the wire.

My invention consists in certain improvements upon the metallic seal for which Letters Patent were granted me March 14, 1876. The seal, as patented, shows a shackle-wire with a soft-metal button constructed with two heads or disks connected by a shank or stem, and so arranged that when the wire is wrapped or twisted around the stem and the edges of the disk compressed into a single thin milled flange, the latter prevents the opening of the two disks without detection. The seal, as thus constructed, is a good one, and will probably defy all attempts to tamper with the same; but, to make it still more secure, I have constructed one of the disks with a projecting eye or a perforated ear, through which perforation the ends of the wire are passed before twisting them around the stem. This confines the branches of the shackle-wire at the edge of the button with a continuous ring of metal, and obviates the possible separation of the thin parts of metal forming the flange, and thus prevents the opening of the said flange by pulling apart the branches of the shackle-wire.

In the drawing, A represents the shackle-wire, and B the soft-metal button which secures the ends of the same. This button is constructed with two heads or disks, *a*, and a connecting stem or shank, *b*, which latter

may or may not be perforated, as desired. As so far described, the button does not differ in any particular from that patented by me as aforesaid. Upon one of the disks of the button, however, is cast or formed a projecting eye or perforated ear, *c*, through which the branches of the shackle-wire are passed before being twisted about the shank. After the edges of the disks are brought together and compressed into a thin flange, the shackle-wire, instead of being in the line of junction of the two edges of the disks forming the flange, are upon one side of the seal entirely, and surrounded by a ring of metal, which renders it impossible to separate the edges of the flanges by pulling apart the branches of the shackle-wire without breaking the continuous ring of metal forming the eye.

In fastening the wire about the stem of the button it may be twisted about the same as many times and in as many forms as may be desired, and it may or may not be passed through the perforation in the stem, according to circumstances.

As a modification of my invention, instead of forming an eye upon one disk, I may form an imperforate ear or lug, *d*, Fig. 2, upon each of the opposite disks, which ears are so relatively arranged that, when compressed, they lap over the joint in the flange upon opposite sides of the wire, and thus operate, in a similar manner, to prevent the wires from being pulled apart to open the flange.

Having thus described my invention, what I claim as new is—

1. The soft-metal button, having a perforated ear, *c*, projecting from its outer edge, in combination with the shackle-wire, having both ends passed through one and the same perforation in said ear, as and for the purpose described.

2. The shackle-wire A of a metallic seal in combination with a soft-metal button, consisting of two connected disks, provided with a projecting eye or its equivalent, as and for the purpose described.

ALPHONSE FRIEDRICK.

Witnesses:

NEWTON H. CHITTENDEN,
CHARLES KEMP.