

J. E. THOMSON.
Seal Locks.

No. 143,201.

Patented September 23, 1873.

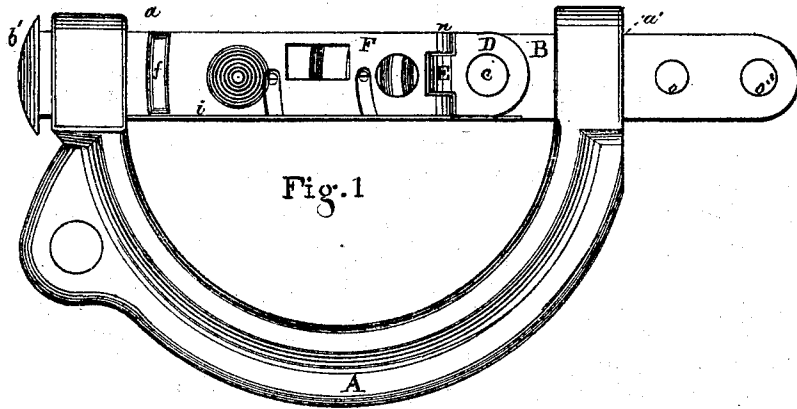


Fig. 1

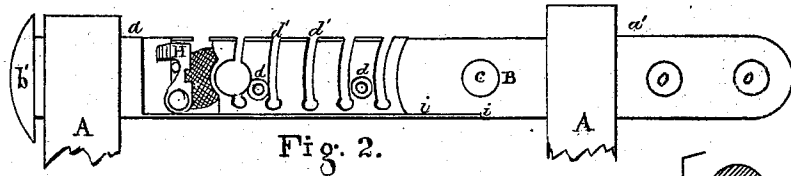


Fig. 2.

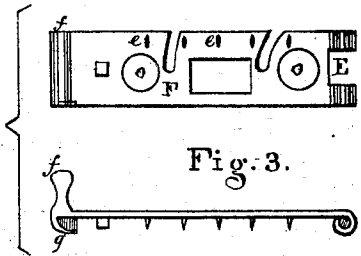


Fig. 3.

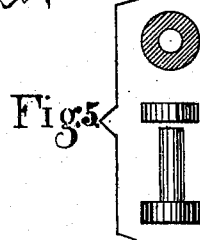


Fig. 5

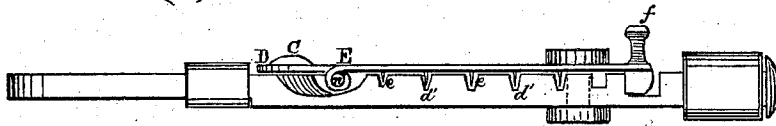


Fig. 4.

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UNITED STATES PATENT OFFICE.

JAMES E. THOMSON, OF BUFFALO, NEW YORK.

IMPROVEMENT IN SEAL-LOCKS.

Specification forming part of Letters Patent No. **143,201**, dated September 23, 1873; application filed April 22, 1873.

To all whom it may concern:

Be it known that I, JAMES E. THOMSON, of Buffalo, in the State of New York, have invented certain Improvements in Seal-Locks; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view, showing my improvements. Fig. 2 is a view of the bar with the seal-cover removed. Fig. 3 is a plan and edge view of the seal-cover of the bar. Fig. 4 is a sectional view of the bar. Fig. 5 is a view of the soft-metal seal that I propose to use on the bar for locking.

My invention consists in certain details in a bar-and-shackle lock to be used with a paper and soft-metal seal combined, as are more fully hereinafter set forth.

In order that those skilled in the art may make and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings, A is a bow or shackle, having the openings *a a'*. Through the said openings a bar, B, is fitted, having a head, *b'*, upon it. At C there is pivoted a piece, D, which will revolve on a plane with the upper surface of the bar B. A hinge, E, connects a seal-cover, F, with D, so as to allow it freely to work to and from the bar. Holes in the cover F allow the insertion of a soft-metal seal, and an opportunity to observe the paper seal which lies beneath it. The bar B is cut away, as shown especially in Fig. 2, and has pins *d d* rising from it and grooves *d' d'* cut in it. Teeth *e e* on the under side of the cover F fit into the grooves *d' d'*. Just within the shackle, and at the end adjacent to the head *b'*, is a spring-catch, H, which engages with a lug, *g*, on the cover F when it is closed on the bar B. The bar B has cast on it a rib, *i*, which comes flush with the top of the cover F when it is closed. This rib prevents the rivet *n* of

the hinge E being driven out; and, to prevent it from being pulled out, it is headed on the inner end next the rib. In order to prevent the possibility of driving out the rivet C, I cast it as a projection on the bar B, and, after putting the piece D over it, I upset the end of the rivet. The hole in the piece D may be countersunk, so that when the rivet C is upset its head will be flush with the face of D, and cannot be filed off or tampered with without leaving a mark on D.

The operation of the lock is as follows: The lock being open, the paper seal is laid on the cut-away portion of the bar B, and the cover F brought vertically down upon it until the lug *g* catches over the spring-catch H and holds it in place. A seal of soft metal may then be put through the holes *o o* and fastened. In this position the shoulder *f* on the cover F prevents the bar B being withdrawn. In order to unlock the lock, the shoulder *f* must be removed by displacing the cover F. This can only be done by revolving the cover, as the spring-catch prevents its being removed vertically. In revolving the cover F, the pins *d d* and teeth *e e* tear and mutilate the paper seal, so as to prevent its reuse. The soft-metal seal is then cut and the end of the bar removed from the shackle.

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

1. The double-hinged seal-cover F, in combination with the sliding bar B of a seal-lock, substantially as and for the purpose set forth.

2. The bar B, with its teeth, spring-catch, and grooves, in combination with the cover F, having the openings, pins, and shoulder *f*, as set forth.

JAS. E. THOMSON.

Witnesses:

JAMES H. CAUSTEN,
R. K. EVANS.