F. C. HAMILTON.

METALLIC SEAL.

No. 192,504. Patented June 26, 1877.

Fig. 1.

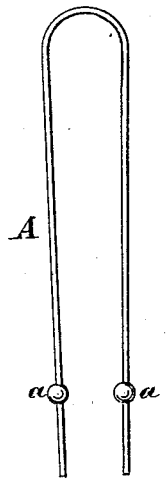


Fig. 2.

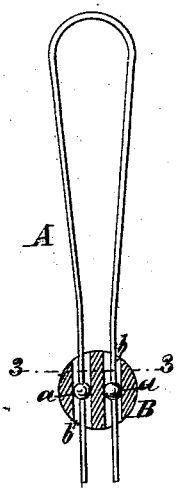


Fig. 4.

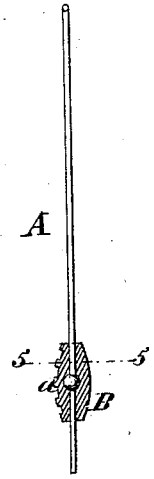


Fig. 6.

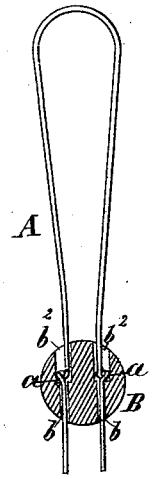


Fig. 7.

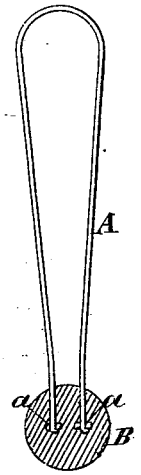


Fig. 3.

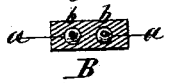


Fig. 5.

Fig. 8.

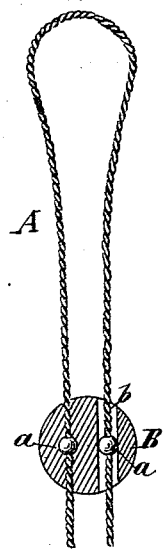


Fig. 9.

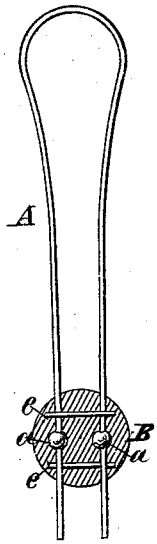
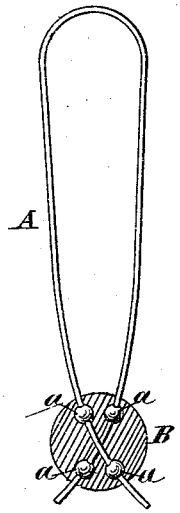


Fig. 10.



WITNESSES

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UNITED STATES PATENT OFFICE.

FRED C. HAMILTON, OF BROOKLYN, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE NEW YORK CORDING AND SEALING COMPANY, OF NEW YORK, N. Y.

IMPROVEMENT IN METALLIC SEALS.

Specification forming part of Letters Patent No. **192,504**, dated June 26, 1877; application filed September 25, 1875.

To all whom it may concern:

Be it known that I, FRED C. HAMILTON, of the city of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Metallic Seals, of which the following is a specification:

This invention relates to lead and wire seals for securing the doors of railway freight-cars, and for other purposes; and consists in applying to the legs of the wire bow or shackle beads or fragments of metal or other material, whereby the ends of the bow or shackle are independently anchored in the compressed ball or disk, while the necessary employment of separate locking-pieces is obviated; the shackles can be furnished separate and straight; the employment of single-wire shackles is rendered practicable; the character of each seal is rendered clearly perceptible, so as to obviate destroying specimens, and the seals are adapted to be manufactured cheaply and applied with ease, as hereinafter more fully set forth.

Figure 1 is a perspective view of the separated parts of a lead and wire seal, illustrating this invention. Fig. 2 is a sectional elevation of the same ready for the press. Fig. 3 is a transverse section of this on the line 3 3, Fig. 2. Fig. 4 is a sectional edge view of the same seal pressed. Fig. 5 is a transverse section of this on the line 5 5, Fig. 4. Figs. 6 to 10, inclusive, are sectional elevations of different seals, illustrating modifications. In Figs. 6 and 8 the seals are shown ready for the press. In Figs. 7, 9, and 10 the seals are shown pressed.

Like reference-letters indicate corresponding parts in the several figures.

This seal in all its forms, as shown in the several figures, is composed of a wire bow or shackle, A, and a ball or disk, B, of lead or other soft metal; and both ends of the bow or shackle are constructed or provided with anchoring beads or scraps *a* at those points which are ultimately embedded within the compressed ball or disk.

The bow or shackle A may consist of a single annealed wire, as illustrated in Figs. 1 to 7, inclusive, and in Figs. 9 and 10; or it may consist of the ordinary double or triple twist, as illustrated in Fig. 8.

Fragments or beads, of metal or other hard material, are strung on the ends of the bow or shackle, and held by bends, as illustrated in Fig. 6, or by pieces of metal or other hard material, of any shape, around which the ends are wrapped, as shown in Fig. 7; or the beads may be cast on the wire, as illustrated in Fig. 8.

The holding beads or fragments may be formed in any desirable number on each leg of the bow. Fig. 10 shows two of them on each leg.

The ball or disk B may be of the common form, having two parallel perforations, *b*, of uniform diameter, to receive the ends of the bow or shackle after it has been passed around or applied to the object to be secured, preliminary to pressing, as illustrated in Figs. 1 to 5, inclusive; or may be constructed with perforations *b*, having enlargements b^2, to receive the anchoring beads or scraps, as illustrated in Fig. 6; or it may be cast on one end of the bow or shackle, and have a single perforation, *b*, as illustrated in Fig. 8; or it may be cast with locking-pieces *e* within it transverse to the perforations for the beads or scraps to lie between, as illustrated in Fig. 9; or it may have perforations so arranged as to cross the ends of the bow or shackle within the seal, as illustrated in Fig. 10.

The construction of the different forms of seal-disk is disclaimed as forming no part of the novelty of the present invention.

What I claim as new, and desire to secure by Letters Patent, is—

A wire-and-lead seal, provided with beads or fragments of metal applied to the legs of the bow or shackle, for the purpose of securely anchoring the same within the soft-metal disk when the latter is compressed.

FRED C. HAMILTON.

Witnesses:

WILLIAM A. HARDING, Jr.,

L. W. PIERCE.