

F. C. HAMILTON.
SOFT-METAL SEAL.

No. 173,946.

Patented Feb. 22, 1876.

Fig: 1.

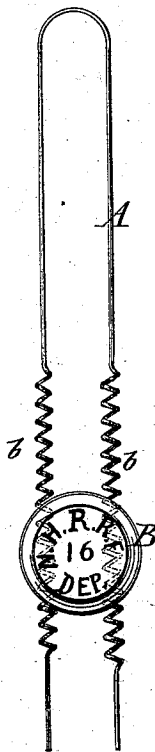


Fig: 2.



Witnesses:

H. C. Mattingly
W. Howell

Inventor:

Fred C. Hamilton
per J. M. Mattingly
Atty

UNITED STATES PATENT OFFICE.

FRED C. HAMILTON, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN SOFT-METAL SEALS.

Specification forming part of Letters Patent No. **173,946**, dated February 22, 1876; application filed October 18, 1875.

To all whom it may concern :

Be it known that I, FRED C. HAMILTON, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Soft-Metal Seals; and that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

This invention is in the nature of an improvement in soft-metal seals; and the improvement consists in a soft-metal seal combined with a single-strand binding-wire, that portion of which lying within the seal being formed into a spiral, substantially as shown and described.

In the accompanying sheet of drawings, Figure 1 is a plan or top view of my invention, and Fig. 2 an end view of seal, showing orifices.

Similar letters of reference indicate like parts in the several figures.

A represents the binding or shackle wire for a soft-metal seal. This wire is composed of a single strand, and is bent in the form of a loop when in use, the two sides of the wire being united, by means of a soft-metal seal, B, into which suitable orifices, *a a*, are formed. That portion of the wire A which it is intended to

secure to the seal B is formed with spirals *b b*. These spirals are inserted into the orifices *a a*, when the sides of the seal A are compressed, which operation closes the orifices *a a* and forces the metal of the seal between the several spirals, not only confining the seal to the shackle-wire, but effectually preventing the wire from being withdrawn or detached from the seal without cutting it, each spiral acting as a lock, as it were, so that its withdrawal from the seal is virtually impossible.

I disclaim as being original with me in this invention whatever functions the spirals may have, broadly, as anchoring protuberances, as this latter invention is now being prosecuted by me in another prior application in interference.

Having thus described the construction and operation of my improved seal, what I claim as new and desire to secure by Letters Patent, is—

A soft-metal seal combined with a single-strand shackle-wire, whereon are formed a series of open spirals, substantially in the manner and for the purpose described.

FRED C. HAMILTON.

Witnesses:

H. L. WATTENBERG,
G. M. PLYMPTON.