No. 867,699. PATENTED OCT. 8, 1907.

F. V. BROOKS.

SEAL.

APPLICATION FILED MAR. 2, 1907.

Fig. 1.

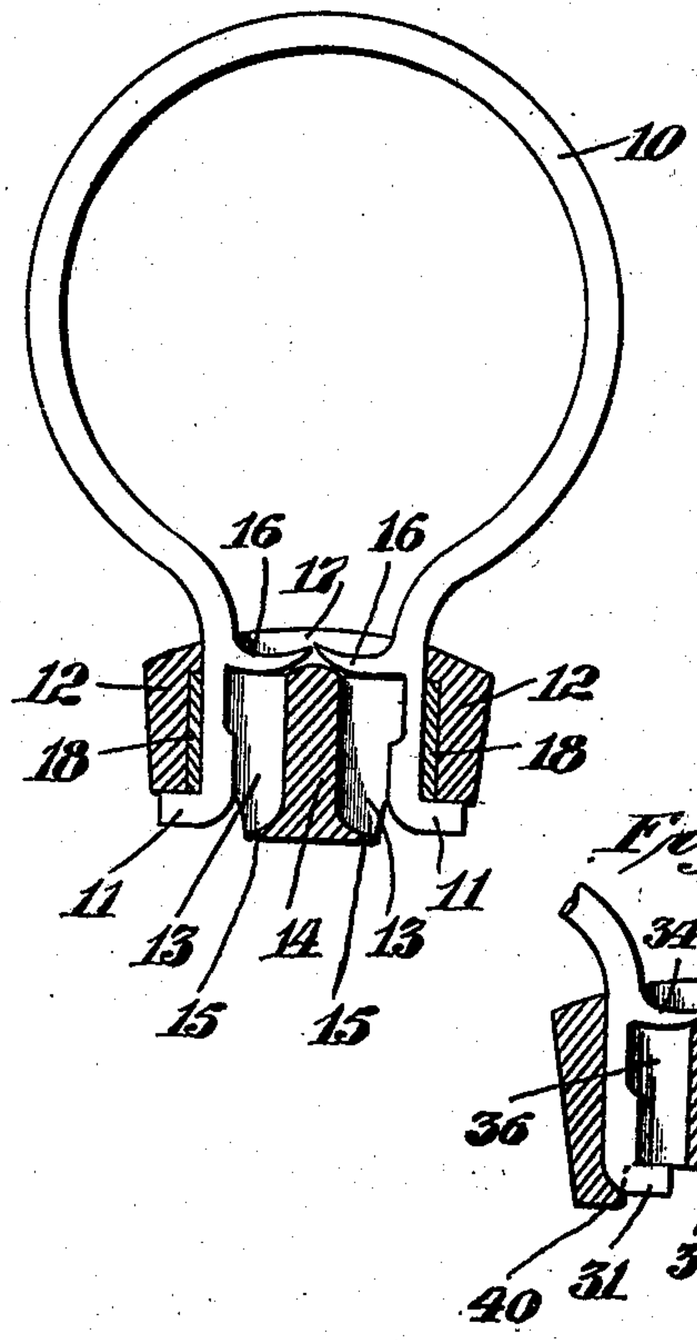


Fig. 2.

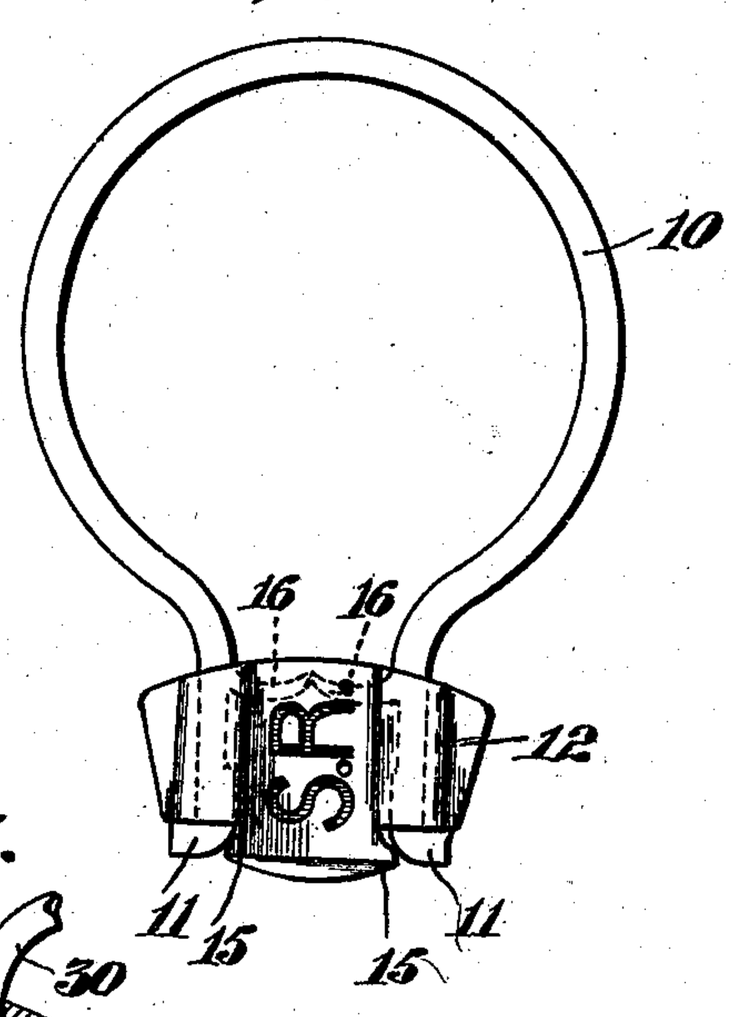


Fig. 3.

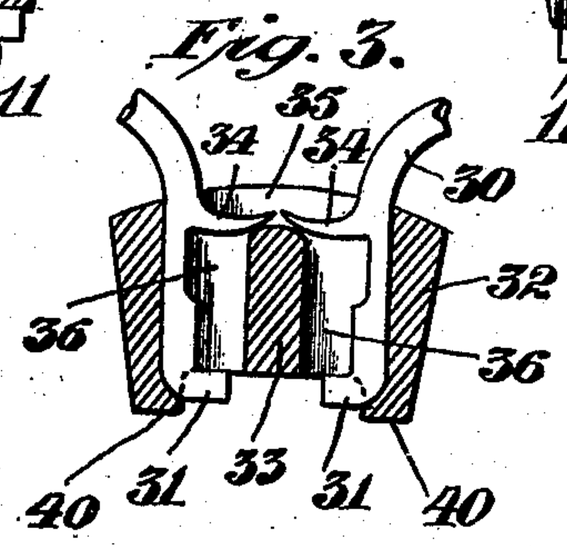


Fig. 4.

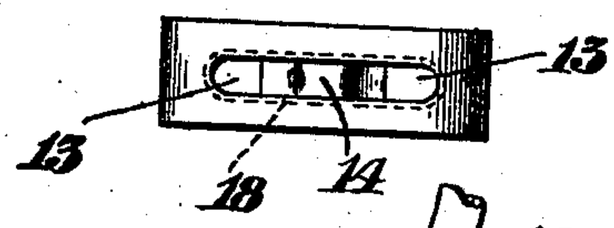
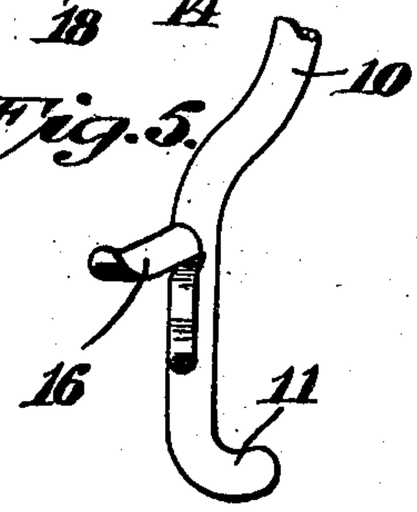


Fig. 5.



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UNITED STATES PATENT OFFICE.

FRANKLIN V. BROOKS, OF NEW YORK, N. Y., ASSIGNOR TO INTERNATIONAL SEAL COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

SEAL.

No. 867,699. Specification of Letters Patent. Patented Oct. 8, 1907.

Application filed March 2, 1907. Serial No. 360,299.

To all whom it may concern:

Be it known that I, FRANKLIN V. BROOKS, a citizen of the United States, and a resident of the borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Seals, of which the following is a specification, accompanied by drawings.

My invention relates to certain new and useful improvements in soft metal seals, and particularly to that class known on the market as "Keystone" seals, and the objects of the invention are to improve the construction of such devices so as to prevent the opening of the seal without leaving evidence of the same.

Further objects of the invention will hereinafter appear and to these ends the same consists of a device for carrying out the above objects, embodying the features of construction, combinations of elements, and arrangement of parts having the general mode of operation substantially as hereinafter fully described and claimed in this specification and shown in the accompanying drawings.

Referring to the drawings, Figure 1 is a central vertical section, showing the shackle in elevation. Fig. 2 is a side elevation showing the soft metal body duly compressed by a sealing press to lock the shackle in place and with designating characters impressed upon the soft metal body. Fig. 3 is a view similar to Fig. 1, but showing a modification. Fig. 4 is a top or plan view of the soft metal body shown in Fig. 1. Fig. 5 is a detail view of one of the ends of my improved shackles.

Referring to the drawings, 10 is a shackle composed of comparatively thick resilient wire, preferably of the form shown in Fig. 1 and having its terminals bent outwardly to form the angular portions 11. The lower portion of the shackle is adapted to be suitably inserted in the passageways 13 of a soft metal body 12, which has a central bridge 14. The lower portion of the central bridge 14 preferably extends beyond the terminous of the passageways 13 and is provided on each side with the shoulder portions 15 which are adapted when compressed to engage the angular portions 11 of the shackle. The shackle 10 is also provided with the spurs or projections 16 which are suitably cut from the sides of the shackle, as clearly shown in Fig. 5, and preferably bent at right angles to the sides of the shackle, the same being placed a suitable distance above the ends of the shackle so as to engage the recess 17 in the top of the soft metal body 12 when the shackle is placed in the passageways 13, as shown in Fig. 1. The recess 17 is formed at the top of the soft metal body by cutting away the upper part of the central bridge 14 so that the sides of the soft metal body will extend above the end of the bridge 14. The sides of the soft metal body upon being compressed will embed the projections 16 in the top of the soft metal body 12. A suitable sealing tool is used which compresses the central portion of the soft metal body 12 so as to suitably spread the metal embodied in the central bridge 14 to fill the passageways 13, the tool at the same time compressing the shoulder portions 15 which on being compressed engage the angular portions 11 of the shackle. The middle portion of the soft metal body on being compressed also embeds the spurs 16 which are situated in the recess 17. If desired, the soft metal body 12 may be provided with a hard metal loop 18 for the purpose of more securely holding the shackle in position when the soft metal body is compressed.

In Fig. 3 is shown a modification in which the shackle 30 is provided with the terminals 31 which are in this instance bent inwards instead of outwards, as shown in Fig. 1. A suitable soft metal body 32 is provided similar to the soft metal body 12, with the exception that the central bridge 33 terminates above the shoulders 40 of the soft metal body 32, said shoulders being adapted to engage the angular portions 31 when the soft metal body is compressed. The shackle 30 is also provided with the spurs or projections 34 similar to the spurs 16 shown in Fig. 1. The upper portion of the soft metal body 32 is also provided with the recess 35 similar to the recess 17 shown in Fig. 1. The soft metal body 32 is suitably sealed by compressing the central portion of the same which mashes the metal embodied in the central bridge 33 so as to fill the passageways 36.

The object of providing the spurs 16 and 34 is to prevent the soft metal body from being opened at the top by a sharp instrument and the shackle removed without showing evidence of the removal after it has been embedded in the soft metal body of the seal. The use of the spurs which are embedded in the top of the soft metal body will prevent this, since a sharp instrument if driven downward into the top of the soft metal body will embed the projections more deeply into the same and prevent the removal of the shackle without detection.

Obviously some features of this invention may be used without others, and the same may be embodied in widely varying forms, therefore, without limiting the invention to the construction shown and described, nor enumerating equivalents.

I claim and desire to obtain by Letters Patent the following:—

1. A seal composed of a soft metal body provided with passageways and a recess between said passageways, in combination with a shackle provided with spurs adapted to engage said recess and having bent terminals adapted to engage said passageways.

2. A seal composed of a soft metal body provided with passageways, a recess at the top thereof between said passageways, shoulders at the bottom of said passageways, in combination with a shackle provided with spurs adapted to engage said recess and having bent terminals adapted to engage said shoulders.

3. A seal consisting of a shackle of comparatively heavy gage wire provided with spurs and having its terminals bent at substantially a right angle, and a soft metal body provided with a recess at the top adapted to engage said spurs and having shackle passages extending through the same and terminating above the lower extremity of said body producing shoulders adapted to interlock with the exposed angular portion of the shackle.

4. A seal composed of a soft metal body having shackle passages terminating above the lower extremity of said body and provided with a recess at the top thereof, in combination with a shackle provided with spurs and having its terminals bent at substantially a right angle.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

FRANKLIN V. BROOKS.

Witnesses:
G. W. JANSSEN,
E. M. MUMM.