W. W. TOBEY.

SEAL.

APPLICATION FILED DEC. 21, 1907.

908,429. Patented Dec. 29, 1908.

Fig. 1.

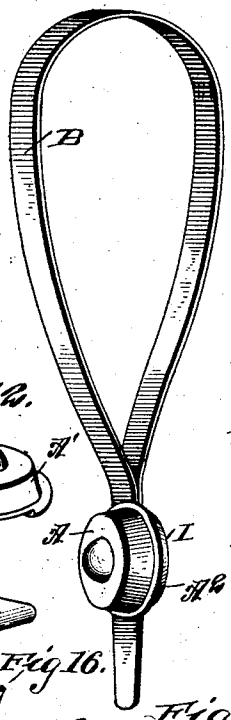


Fig. 2.

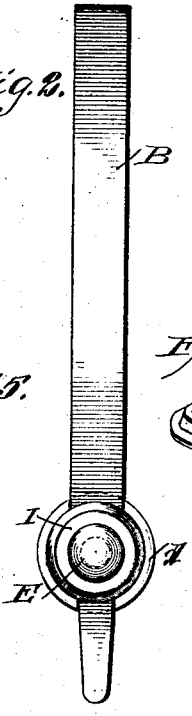


Fig. 3.

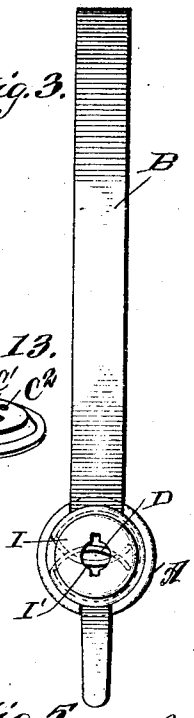


Fig. 12.

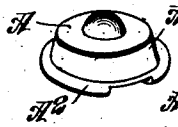


Fig. 15.

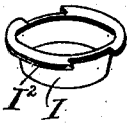


Fig. 13.



Fig. 16.

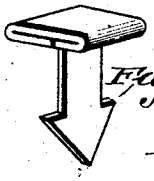


Fig. 14.

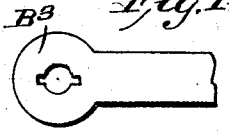
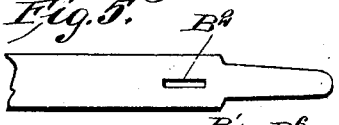


Fig. 4.

Fig. 5.



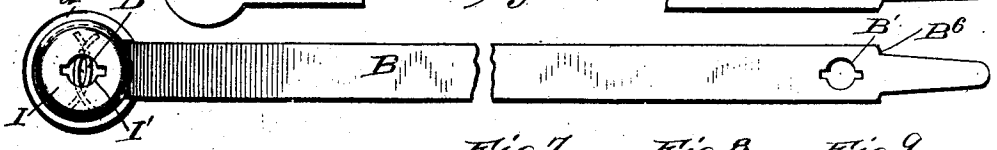


Fig. 6.

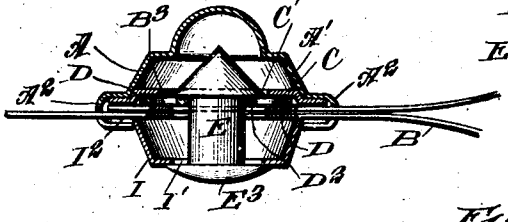


Fig. 7.

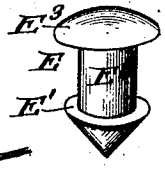


Fig. 8.

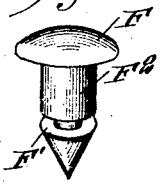


Fig. 9.

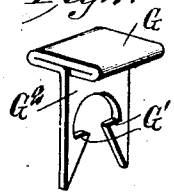


Fig. 10.

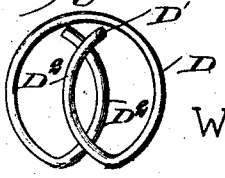
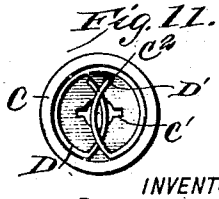


Fig. 11.



WITNESSES

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SEAL.

No. 908,429. Specification of Letters Patent. Patented Dec. 29, 1908.

Application filed December 21, 1907. Serial No. 407,525.

To all whom it may concern:

Be it known that I, WILLIAM WALTER TOBEY, a citizen of the United States, and a resident of Iola, in the county of Allen and State of Kansas, have invented certain new and useful Improvements in Seals, of which the following is a specification.

This invention is an improvement in seals or sealing devices to secure the contents of freight, refrigerator and other cars, boxes, packages, parcels, mail-bags, etc. from being tampered with while in transit; and the invention consists in certain novel constructions and combinations of parts as will be hereinafter described and claimed.

In the drawing Figure 1 is a perspective view of the rear side of the seal with the parts fastened. Fig. 2 is a face view with the parts in the same position as in Fig. 1, and Fig. 3 is a face view before the locking bolt is applied. Fig. 4 is a plan view of the device, the seal being open and the cover in place. Fig. 5 is a detail view of one end of the strip showing an elongated aperture instead of a rounded aperture as shown in Fig. 4. Fig. 6 is a sectional view drawn through the casing showing the seal fastened. Figs. 7, 8 and 9 are detail views illustrating different forms of locking bolts. Fig. 10 is a detail view of the spring catch for engagement by one of the bolts. Fig. 11 is a detail view illustrating the engagement of one end of the spring catch shown in Fig. 10 with its base plate for preventing the said catch from turning out of position for use. Fig. 12 is a detail view of the body portion of the casing. Fig. 13 is a detail view of the base plate for the spring catch. Fig. 14 is a detail view showing the end of the sealing strip and having the head plate, Fig. 15 is a detail view of the cover, and Fig. 16 shows a different form of locking bolt from that shown in Figs. 7, 8 and 9.

In carrying out the invention, I employ a casing A, a sealing strip B held at one end in the casing and having near its other end an aperture B′ or B^2, which may aline with similar apertures within the casing for the passage of the shank of the bolt, as presently described.

The casing A includes the body portion A′, closed on one side and cupped at its opposite side to receive a plate C, which forms a base on which the spring catch D rests. This plate C is apertured centrally at C′ for the passage of the shouldered portion of the bolt shank and it is also provided with an opening or perforation at C^2 to receive the deflected extremity D′ of the spring D in order to keep said spring from turning out of position when the same is applied as shown in Fig. 6. The spring catch D has its ends bent inwardly forming transversely extending arms D^2, which overlie the aperture C^1 and may be spread for the passage of the shouldered portion E′ of the bolt E, shown in Fig. 7, or F′ of the bolt F shown in Fig. 8, or may be pressed toward each other for the passage of the shouldered portions G′ of the bolt G, shown in Fig. 9, the several bolts having, respectively, shanks E^2, F^2 and G^2, as shown in Figs. 7, 8 and 9 of the drawing, it being understood that when the bolts E or F are forced between the arms D^2, the said arms will be spread and then spring back to position overlying the shoulder E′ or F′ to secure the bolt, and in applying the bolt G, shown in Fig. 9, the arms of the shank G^2 will by their inclined portions press the arms D^2 toward each other, and the said arms will spring outwardly to engage with the shoulders G′ to secure the bolt in place.

The spring catch D is retained upon its base plate C by the head B^3 resting flat upon edge flanges of the base plate, as shown in Fig. 6 of the drawing.

A cover I, apertured at I′ for the passage of the bolt shank and having edge flanges I^2 over which the free edge A^2 of the body portion is seamed, as shown in Fig. 6 operates in connection with the said seaming of the body portion to secure the head B^3 of the sealing strip on the base plate C, and the spring catch D, in the relative arrangement before described. The sealing strip has its end opposite the plate B^3 perforated at B′ or B^2 for the passage of the bolt so that when the said end of the strip is returned and inserted through the slots in the casing to the position shown in Fig. 6, the bolt may be applied as shown in Fig. 6 to secure the several parts in such position, the head E^3 of the bolt covering the aperture I′ in the cover and leaving the parts in such position that the seal can only be released by destroying the same, as will be understood by those skilled in the art.

It will be noticed that when the parts are secured as shown in Fig. 6, the seal is absolutely closed, and cannot be opened except-

ing by destroying some part, which will readily disclose the tampering with the seal. Therefore, any merchandise or other material under cover of this seal, cannot be tampered with, opened, and the goods stolen, and the seal replaced without immediately showing the theft. The seal can be used on any form of fastening without change of equipment.

In inserting the locking bolt or key, the latter should be pushed in until a clicking noise is heard, and unless the key is forced in to the desired extent, it will not stay in the casing but will immediately drop out so that it cannot be left in a partially fastened position.

The strip may be made long or short and if desired be so short that it cannot be cut and the ends connected without immediate detection, and the strip may be a plate of metal, or may be of any other suitable material adapted for the purpose in view.

The strip adjacent to its perforations B' or B^2 is provided with curved shoulders at B^6 and the aperture in said end of the strip will not aline with the aperture of the casing until said shoulder abuts with the casing and limits the introduction of the strip.

In manufacturing the casing and the strip, tin or copper, or other suitable material may be employed without departing from the principles of the invention.

It will be noticed that the casing is made in sections seamed together and that it is apertured for the introduction of the bolt in a line at a rightangle to the plane of the seaming of the sections so the several plates of the seal and the casing may lie in parallel planes and the bolt be passed through the same in a direction at a rightangle to said plane.

In Fig. 16, I show a flat locking bolt having an arrow head construction at its lower end.

It will be noticed that the bolt or locking key has a head which in the sealed position of the parts abuts the casing and covers the opening I' therein, thus preventing the introduction of any instrument whereby to release the spring from engagement with the said key or bolt.

I claim—

1. The combination with the casing having an opening for the introduction of a bolt, and also provided with an opening through which a sealing strip may be introduced, and means within the casing for securing the bolt, and a bolt inserted through the opening in the casing and adapted to engage with the fastening means therein, and having at its outer end a head abutting the casing in the inserted position of the parts and covering the aperture or opening in the casing all substantially as and for the purposes set forth.

2. The combination with the casing having an opening for the insertion of the free end of the sealing strip, of a spring catch in the casing, a sealing strip held at one end to the casing and having its other end adapted to be inserted through the opening in said casing, and a bolt applied to the casing and securing the free end of the sealing strip within the casing, said bolt being held by the spring catch within the casing, substantially as set forth.

3. The combination of the casing having the body portion, the plate therein forming a base for a spring catch and apertured for a bolt and having a perforation for the end of a spring catch, a spring catch having one end deflected to enter said perforation in the base plate and provided with arms extending transversely across the base plate, a sealing strip having a head overlying and retaining the spring catch, and a cover overlying the head of the sealing strip and connected with the body portion of the casing, the said cover, sealing strip, head and base plate being apertured in alinement for the passage of the bolt, and the bolt adapted to be passed through said apertures and to engage with the spring catch, as set forth.

4. The combination with the casing, of a catch therein and having arms extending transversely across the casing and adapted to be spread or retracted laterally for the passage of shoulders on the locking bolt, and the locking bolt shouldered for engagement with the arms of the catch, substantially as set forth.

5. The combination of the casing having the body and the cover portion seamed together, the cover portion being provided with an aperture for a bolt, a base plate in the casing and cupped for the reception of the spring catch and having an aperture in alinement with that in the cover plate, a spring catch in the cup of the base plate, a plate overlying the spring catch and apertured in alinement with the base plate, and the bolt, substantially as set forth.

6. The seal comprising a casing composed of a body portion, and a cover portion held together, a sealing strip having at one end a plate fitted within the casing and between the body portion and cover thereof, and a bolt coöperating with said casing and strip, and means for securing the bolt in the casing, substantially as set forth.

7. A sealing strip having one end circular, and its other end terminating in a reduced portion forming a shoulder at the base of the reduced portion, said reduced portion being of sufficient length to permit its introduction into the casing, and the said sealing strip having in both ends elongated slots or openings enlarging into central circular openings, substantially as set forth.

8. The combination of a strip having a

reduced portion at one end, and a shoulder at the base thereof, a casing made in two parts seamed together, and having in its front side an elongated slot or opening converging into a central circular opening, and the back part of the casing being in the form of a cup to receive a spring catch, a base plate, said casing having open slots in the plane of the seam and opposite each other, and one of said slots being wider than the other, the narrow slot being adapted to receive the reduced portion of a sealing strip, and a locking key or bolt, substantially as set forth.

9. The combination of a casing having a body portion, a base plate therein, a spring catch supported on the base plate and provided with arms extending transversely across the base plate, a sealing strip having an end forming a cover for said catch, the casing, sealing strip and base plate being apertured in alinement with the sealing strip and the bolt passed through said alined apertures and engaged by the catch.

10. The combination of a casing, a sealing strip having an end plate in the casing, a base plate in the casing, said strip plate and base plate having alined bolt openings, and the base plate having a perforation to receive the deflected extremity of a spring catch, a spring catch resting on the base plate with arms extending transversely across the aperture therein, and having a deflected extremity entering the perforation of the base plate, the front cover portion of the casing, the base plate and both ends of the sealing strip being provided each with an elongated slot or aperture all in alinement for the reception of a locking key or bolt, and a locking key or bolt adapted to pass through the said alined apertures to be engaged with the said locking spring catch, substantially as set forth.

WILLIAM WALTER TOBEY.

Witnesses:
H. W. EWING,
W. S. BURDICK.