

(No Model.)

E. J. BROOKS.
SEAL.

No. 573,758.

Patented Dec. 22, 1896.

Fig. 1.

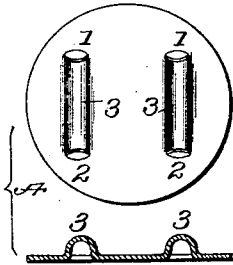


Fig. 4.

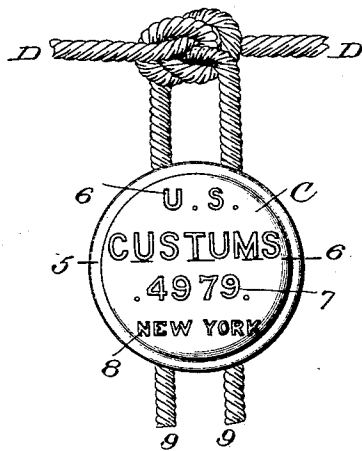


Fig. 7.

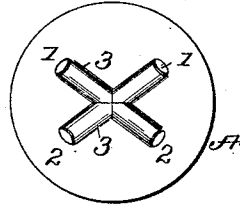


Fig. 2.

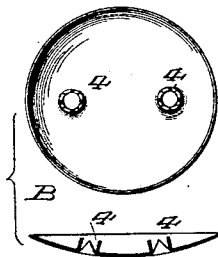


Fig. 8.

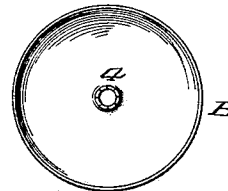


Fig. 3.

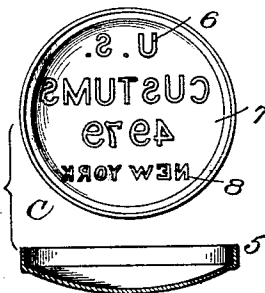


Fig. 5.

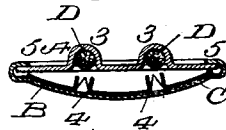


Fig. 6.

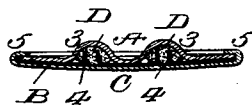


Fig. 9.

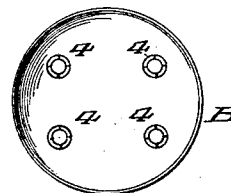
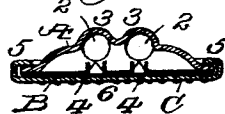


Fig. 10.



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EDWARD J. BROOKS, OF EAST ORANGE, NEW JERSEY, ASSIGNOR TO THE
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SEAL.

SPECIFICATION forming part of Letters Patent No. 573,758, dated December 22, 1896.

Application filed October 28, 1896. Serial No. 610,295. (No model.)

To all whom it may concern:

Be it known that I, EDWARD J. BROOKS, a citizen of the United States of America, and a resident of East Orange, in the State of New Jersey, have invented a new and useful Improvement in Cording-Seals, of which the following is a specification.

This invention relates to means for sealing commercial packing-cases, baggage, &c., in which twine or cord constitutes the shackle of the seal; and the objects of the present improvement are to facilitate securely fastening the seal by the blow of a hammer or the like, and at the same time to prevent opening the fastened seal without such mutilation or defacement thereof as will insure detection, and, furthermore, to facilitate the manufacture of the sheet-metal seal-disk by automatic machinery.

The invention consists in a compressible seal-disk composed of front and back parts, both of which may be of any preferred sheet metal, and an inner prong-carrying locking-plate of thin sheet-iron or the like, which interlocks with the cord when the seal is fastened.

The invention further consists in the novel combination of parts formed by the improved cording-seal, as hereinafter described and claimed.

A sheet of drawings accompanies this specification as part thereof.

Figure 1 of the drawings represents an elevation and a cross-section of the back plate of the seal; Fig. 2, like views of the locking-plate; Fig. 3, like views of the front plate or outer cup; Fig. 4, a face view of the improved seal; Figs. 5 and 6, cross-sections on the line 5 6, Fig. 4, showing the seal-disk respectively before and after it is flattened; Fig. 7, an elevation of a modified back plate; Figs. 8 and 9, elevations of modified locking-plates, and Fig. 10 a cross-section of a modified seal-disk unpressed.

Like letters and numbers refer to like parts in all the figures.

The compressible seal-disk in either of its forms is composed of a back plate A, preferably and conveniently stamped from scrap-iron, an inner locking-plate B, formed in like manner from thin sheet-iron, such as is used

for metallic button-shells, and a front part or outer cup C, formed in like manner from any suitable sheet metal. The parts may appear before they are united as in Figs. 1, 2, and 3, respectively, said back plate A having perforations 1 and 2, between which tunnels 3 are raised by the stamping-dies to complete the cord-passages, preferably one for each end, said locking-plate B being normally concavo-convex, with ragged eyelets 4, one or more, projecting within its concavity to provide it with sharp cord-locking prongs, and said outer cup C having a marginal rim 5 to interlock with said back plate A and permanently unite the three parts with each other, its front being embossed in the stamping-dies with general lettering 6, a serial number 7, and the name or symbol 8 of the place of sealing, or equivalent permanent marks, to distinguish genuine seals and to facilitate locating any tampering therewith.

The locking-plate B is dropped into the outer cup C, followed by the back plate A, in the relative positions in which the parts are shown in cross-section in Figs. 1, 2, and 3. In so assembling the parts the correct location of the back plate A and locking-plate B relatively to each other and to the outer cup C may be insured by means of gages in the machinery in customary manner. The rim 5 of the outer cup C is finally closed down upon the back plate A, as in Fig. 5, and the seal-disk is then ready for use, as in Fig. 4, with the ends 9 of a cord D run through the cord-passages formed by the perforations 1 and 2 and the tunnels 3 of the back plate A.

The seal is fastened by compressing the seal-disk so as to force the prongs of the ragged eyelets 4 into the cord D, and thus locking the cord ends 9 against withdrawal, as shown in cross-section in Fig. 6, and the seal-disk may be thus compressed by the blow of a hammer or the like or by a suitable seal-press.

The tunnels 3 of the back plate A may be crossed, as in Fig. 7, and in this case a single central prong-forming eyelet 4, Fig. 8, on the locking-plate B may suffice, or, in connection with either form of the tunnels, the plate B may be provided with two (or more) eyelets 4 beneath each tunnel, as in Fig. 9. The

main portion of the back plate A may be raised, so that the locking-plate B and the front of the outer cup C may be flat, as in Fig. 10. The lettering, &c., 6 7 8 on the outer cup C may be printed or otherwise formed, and other like modifications will suggest themselves to those skilled in the art.

Having thus described the said improvement, I claim as my invention and desire to patent under this specification—

1. A compressible seal-disk, for cording-seals, composed of a back plate forming cord-passages, an internal concavo-convex plate provided with cord-locking prongs projecting from its concave side toward said passages, and an outer cup having a marginal rim which

permanently interlocks the three parts with each other, all of suitable sheet metal.

2. The combination, with the ends of a sealing-cord, of a seal-disk of sheet metal comprising a back plate through which the cord extends, an internal plate having prong-forming ragged eyelets to interlock with the cord, and an outer cup having permanent distinguishing marks and permanently interlocked with said back plate by a marginal rim, substantially as hereinbefore specified.

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