(No Model.)

E. J. BROOKS.

SEAL.

No. 391,295. Patented Oct. 16, 1888.

Fig. 1.

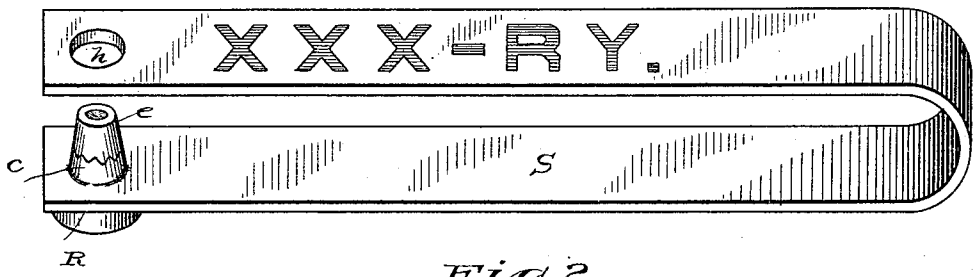


Fig. 2.

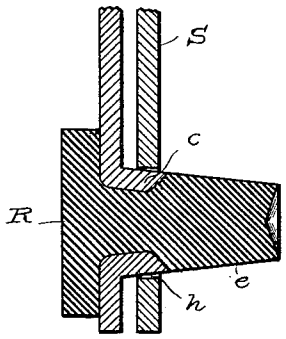


Fig. 3.

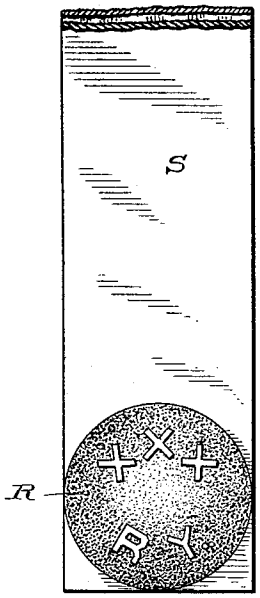


Fig. 4.

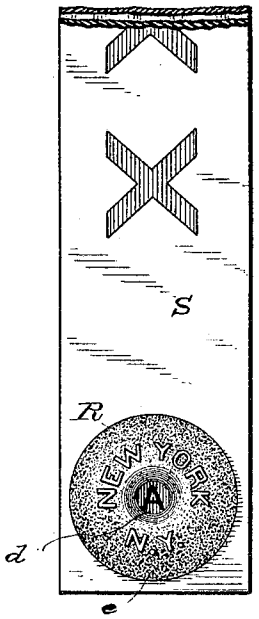
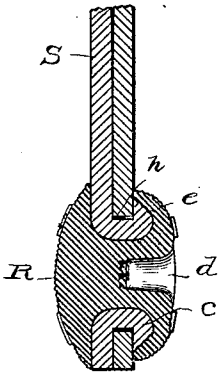


Fig. 5.



Witnesses.

H. A. Lamb

Lort Phillips.

Inventor,

EDWARD J. BROOKS.

By his Attorney

Thos. L. Ewin.

N. PETERS. Photo-Lithographer. Washington. D. C.

UNITED STATES PATENT OFFICE.

EDWARD J. BROOKS, OF EAST ORANGE, NEW JERSEY, ASSIGNOR TO E. J. BROOKS & COMPANY, OF NEW YORK, N. Y.

SEAL.

SPECIFICATION forming part of Letters Patent No. 391,295, dated October 16, 1888.

Application filed August 20, 1888. Serial No. 283,203. (No model.)

To all whom it may concern:

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

This invention is additional to my series of "lead-and-tin" seals in which the lead is cast fast on one end of the tin "strip," as set forth in my specifications forming part of United States Letters Patent No. 246,068, dated August 23, 1881, No. 260,279, dated June 27, 1882, and No. 286,775, dated October 16, 1883.

The present invention consists in the combination of a sheet-metal strip having an "eyelet-collar" integral therewith at one end and a hole at its other end, to which the eyelet-collar is fitted, and a soft-metal rivet cast fast in said eyelet-collar and clinched together therewith in fastening the seal, whereby the rivet is protected against being cut through and the eyelet is protected against being unfastened without detection, and at the same time there is but one part to handle in applying the seal, and the cost of manufacture is not materially greater than that of seals with cast-in rivets not so protected.

A sheet of drawings accompanies this specification as part thereof.

Figure 1 of the drawings represents a perspective view of an improved seal, illustrating this invention. Fig. 2 represents a magnified longitudinal section through its ends as united preparatory to fastening and stamping the seal. Figs. 3 and 4 are magnified views representing the respective faces of the united ends of the fastened seal, and Fig. 5 represents a longitudinal section through the same.

Like letters refer to like parts in the several figures.

S represents a flexible strip of sheet metal, preferably "tin," (tin-plate,) having at one end an eyelet-collar, *c*, integral with the strip, and at its other end a hole, *h*, fitted to said eyelet-collar, and R represents a rivet of soft metal, preferably lead, cast fast within said eyelet-collar *c*, so as to clinch therewith in fastening the seal, as aforesaid.

The eyelet-collar *c* need only project enough in the unfastened seal (represented by Figs 1 and 2) to extend through the hole *h* and form a secure clinch when the seal is fastened, as indicated in Fig. 5. A collar of this height is readily raised on tin by a single punching operation, and its ragged original edge may be left untrimmed, as indicated in Figs. 1 and 2, as the rivet-stem has a protruding end, *e*, which extends lengthwise considerably beyond the collar *c* and laterally to the outer circumference of the latter. The primary objects of so extending the rivet-stem are that the eyelet-collar shall not complicate "inserting the rivet" or uniting the ends of the seal preparatory to the fastening operation, as illustrated by Fig. 2, and that when both are clinched as aforesaid the lead shall completely envelop the eyelet-burr, so as to be pebbled and provided with distinguishing lettering or otherwise stamped at the fastening operation, and thus to prevent unclinching or tampering with the eyelet-collar without detection.

A deep central depression, *d*, Figs. 4 and 5, formed by the clinching-punch and having a distinguishing letter or the like stamped in its bottom, as represented by A, Fig. 4, preferably supplements the aforesaid guards against unfastening the seal without detection. Any lateral compression of the clinching would close this depression more or less and interfere with reading the mark in its bottom. The rivet-head is preferably also pebbled, and the pebbled surfaces on both sides of the seal are extended as close as practicable to the tin. The rivet-head and strip are also preferably further provided with appropriate lettering, as represented by "XXX—Ry," the strip being printed or stamped in course of manufacture and the rivet-head at the fastening operation, as set forth in my previous specifications aforesaid.

I am aware that a distinct eyelet inclosing the rivet-stem has been applied to a seal-rivet before inserting it. This forms no part of my invention.

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

An improved seal composed of a flexible strip of sheet metal having an eyelet-collar integral therewith at one end and a hole fitted to said collar at its other end, and a soft-metal rivet cast fast in said eyelet-collar with its rivet-stem extending lengthwise beyond the collar and laterally to the outer circumference of the latter, substantially as hereinbefore specified.

EDWARD J. BROOKS.

Witnesses:
GEO. WENK,
THOMAS TIERNEY.