(No Model.)

E. J. BROOKS.

SEAL AND SEAL TAG.

No. 505,388. Patented Sept. 19, 1893.

Fig. 1.

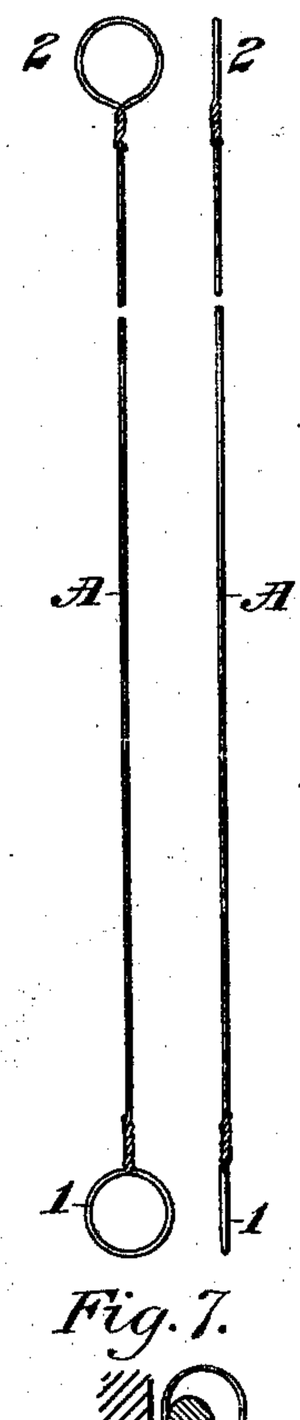


Fig. 2.

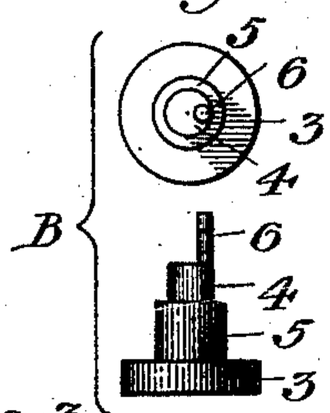


Fig. 3.

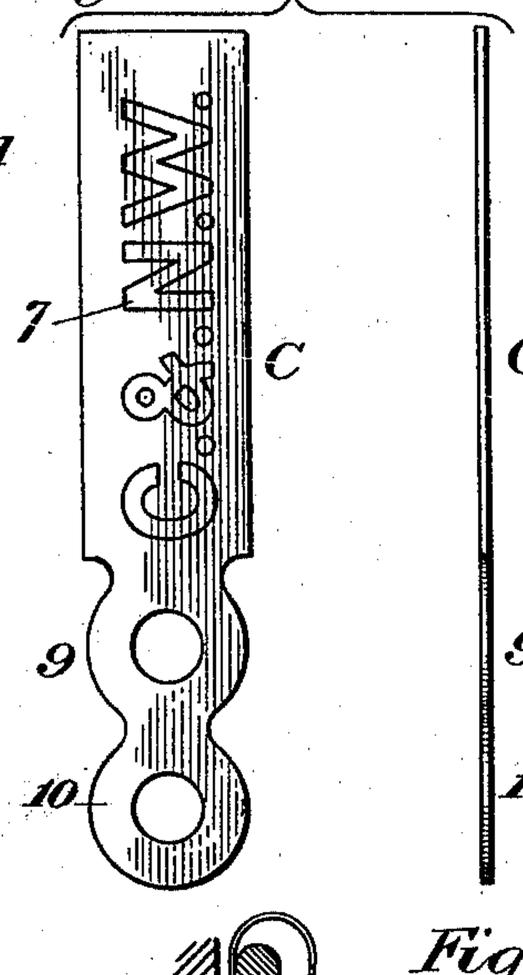


Fig. 4.

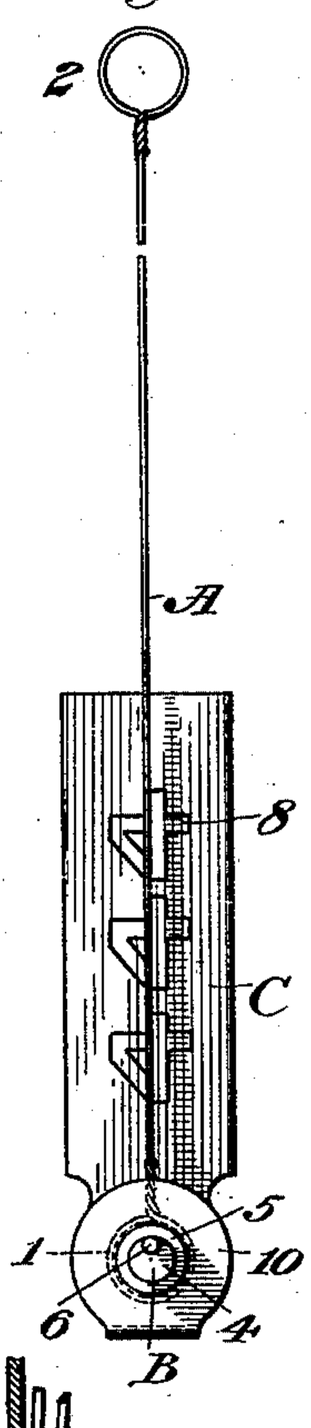


Fig. 5.

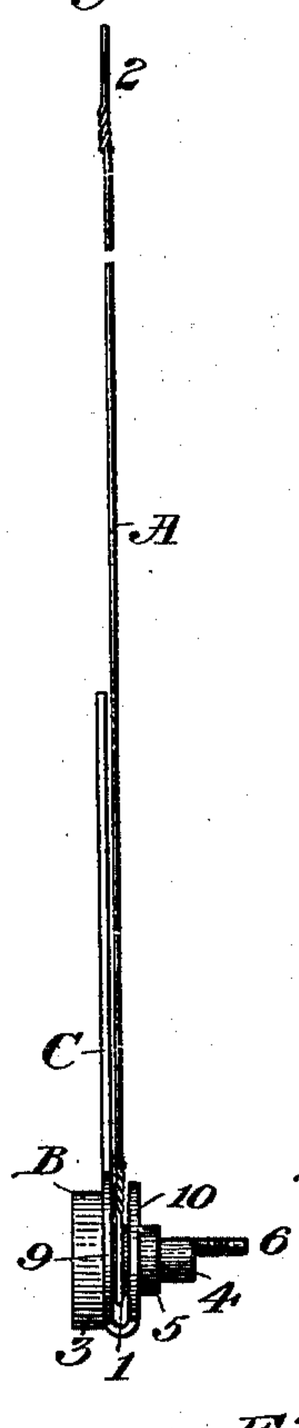


Fig. 6.

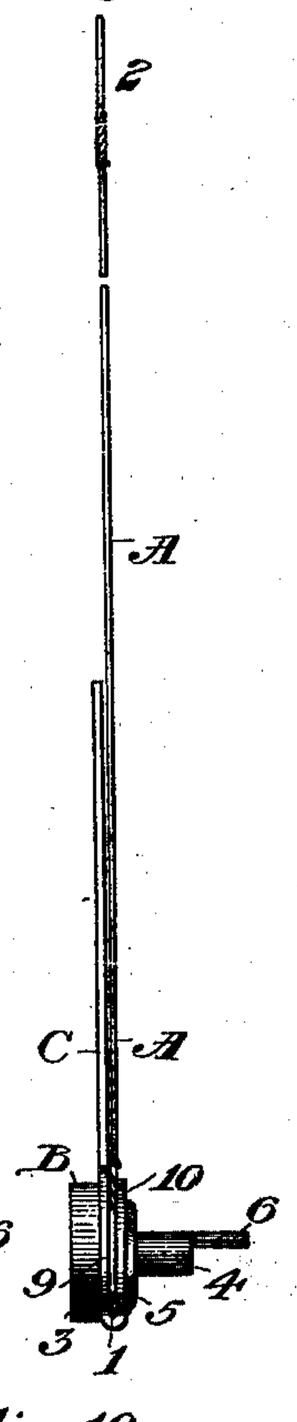


Fig. 7.

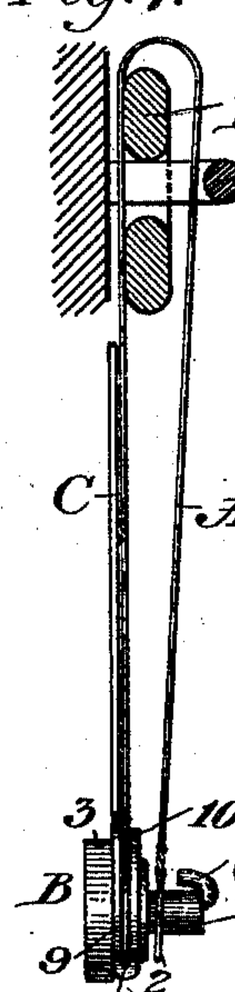


Fig. 8.

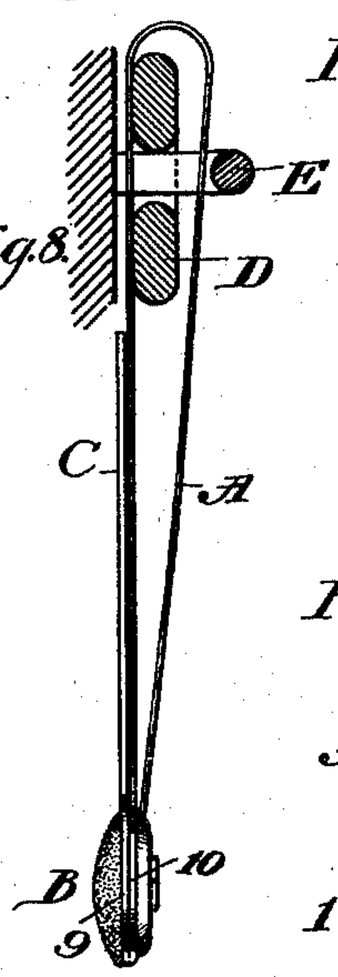


Fig. 9.

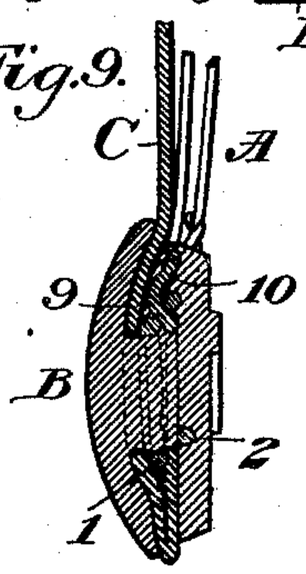


Fig. 10.

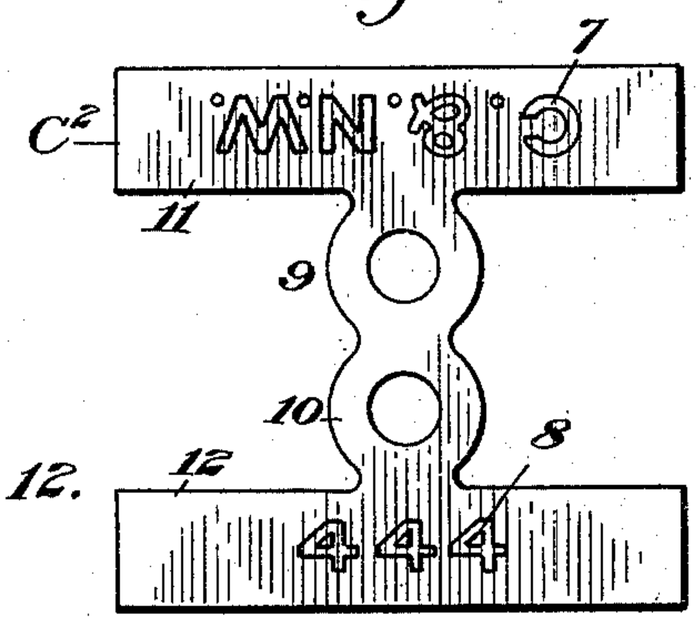


Fig. 11.

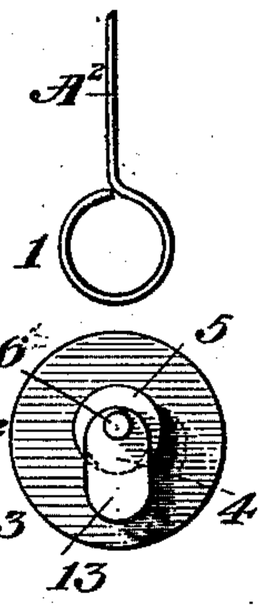
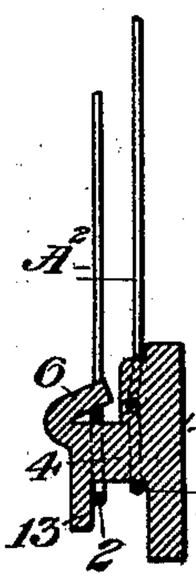


Fig. 12.



Witnesses
T. A. Connor Jr.
Geo. M. Whitney.

Inventor
Edward J. Brooks,
by L. L. Lewis,
Attorney.

UNITED STATES PATENT OFFICE.

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

SEAL AND SEAL-TAG.

SPECIFICATION forming part of Letters Patent No. 505,388, dated September 19, 1893.

Application filed July 1, 1893. Serial No. 479,353. (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 Seals and Seal-Tags, of which the following is a specification.

This invention relates to what are known as "rivet" seals, and to tags of thin tin-plate ("tin") or eyeleted paper combined therewith.

The present invention consists in certain novel combinations of peculiarly constructed parts, as hereinafter set forth and claimed.

Its objects are, first, to facilitate preliminarily uniting a flexible shackle of wire, a sealing rivet, of lead or the like, and a seal-tag, so that they can be readily handled as one article in shipping them, and in applying them to a car-door fastening or the like preparatory to the application of a seal-press to the rivet; and, secondly, to prevent the outer end of the shackle from springing off the rivet after it is applied thereto preparatory to the final pressing operation.

A sheet of drawings accompanies this specification as part thereof.

Figure 1 of these drawings comprises face and edge views of a preferred make of shackle; Fig. 2 end and side views of a sealing rivet for combination with such a shackle, and Fig. 3 face and edge views of a tag to be combined with said shackle and sealing-rivet. Fig. 4 is a face view showing the parts as assembled preparatory to preliminarily uniting them in the form of a "combined seal and tag." Fig. 5 is an edge view projected from Fig. 4. Fig. 6 is a view similar to Fig. 5 showing the combined seal and tag ready for shipment or for use. Fig. 7 is a like view showing the combined seal and tag as applied to a car-door hasp, and made ready for the press. Fig. 8 is a like view of the combined seal and tag, pressed. Fig. 9 represents a magnified section through the sealing rivet of the "pressed" seal and tag. Fig. 10 is a face view of a modified tag; and Figs. 11 and 12 are respectively a face view and a sectional edge view of a modified rivet seal, constructed according to the same invention in part.

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

The combined seal and seal-tag represented by Figs. 1 to 9 inclusive is composed of a flexible shackle A of thin single wire, having loops 1 2 formed at its respective extremities by twisting the wire as indicated in the figure, a sealing-rivet B, of lead or a like fusible and compressible substance, cast with a head 3, a stud 4, a shoulder 5 surrounding said stud at its inner end which adjoins said head, and a thin pliable finger 6 on the end of said stud, and a tag C, stamped from thin tin or the like printed in the sheet, and thus conveniently provided with distinguishing marks 7 8 on its respective sides, and with a pair of flat annular portions or loops 9 and 10, at one end.

In assembling the parts, the loop 9 of a tag C is passed over the finger 6 and stud 4 of a rivet B, followed by the loop 1 of a shackle A, and that by the other loop 10 of the tag; and the three loops are slipped over the shoulder 5 and against the head 3 of the rivet, as in Figs. 4 and 5. The assembled parts are then fed beneath a reciprocating hollow punch, matching the shoulder 5 of the rivet B, which upsets or strips off and forces in the lead behind said shoulder 5, flattening the same, forcing the wire loop 1 into the tag loop 9, and bringing the tag loops 9 and 10 into contact with each other, and thus tightly unites the parts, as in Fig. 6, preliminary to shipping the combined seal and tag, and preparatory to its use.

In using the combined seal and tag, the loop 2 of the shackle A is passed around a car-door hasp D within its staple E for example; is then slipped over the finger 6 and stud 4 of the rivet B; and is retained upon said stud 4, preparatory to applying the seal-press, by bending over said finger 6, which is readily done by the thumb of the sealer. A seal-press is then applied, and the sealing rivet is compressed and stamped, as illustrated by Figs. 8 and 9.

In the pressed seal and tag, as indicated in Fig. 9, both loops 1 and 2 of the shackle A are embedded in the loops 9 and 10 of the tag C, and, with the latter of thin tin or the like, access to the shackle-loops by cutting into the

lead of the pressed rivet B is thus effectively resisted.

The modified tag C^2 represented by Fig. 10 is adapted to be made of the thinnest material, printed on only one side; the backs of its two portions 11 and 12 which carry the respective distinguishing marks 7 and 8 being brought together in the act of making the bend between the loops 9 and 10 as in Figs. 4 and 5.

The rivet-seal represented by Figs. 11 and 12 is composed of a shackle A^2, made in the example of thicker wire, and provided with bent-up loops 1 and 2 at its respective ends, and a sealing rivet B^2 having an eccentric enlargement of its post 4 to form its shoulder 5, and having a rigid projection 13, opposed to its pliable finger 6, as means for holding the second shackle-loop 2 in place preparatory to the pressing operation. The rivet B^2 is shown in Fig. 11 as it is cast, and in Fig. 12 as preliminarily attached to the shackle A^2 by upsetting its shoulder 5 upon the loop 1 of the shackle, and as interlocked with the second shackle-loop 2, preparatory to the pressing operation, by hooking said loop 2 over said projection 13, and then bending the finger 6 over or against the loop as shown. Either style of shackle may be used in connection with either style of sealing rivet; eyeleted paper or the like, or other sheet-metal, may be substituted for tin for the tags; 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 combined seal and seal-tag composed of a flexible shackle of wire having a loop at each end, a tag having a pair of loops between which one of said loops is inclosed, and a sealing rivet having a portion thereof surrounding its stud upset upon said tag loops to preliminarily unite the parts, substantially as hereinbefore specified.

2. A sealing rivet having a pliable retaining finger on the outer end of its stud, in combination with a flexible shackle preliminarily united with said rivet at one end, and having a loop at its other end which embraces said stud and with which said finger coacts preparatory to the pressing operation, substantially as hereinbefore specified.

EDWARD J. BROOKS.

Witnesses:
GEO. J. WENK,
L. F. HOVEY.