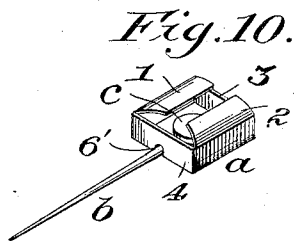
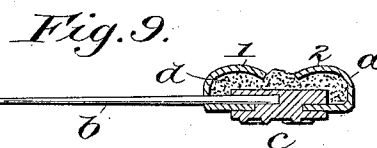
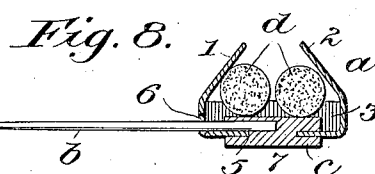
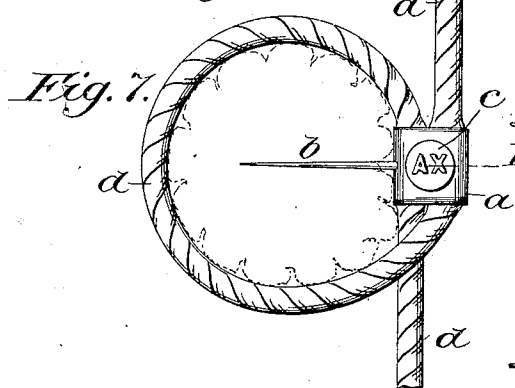
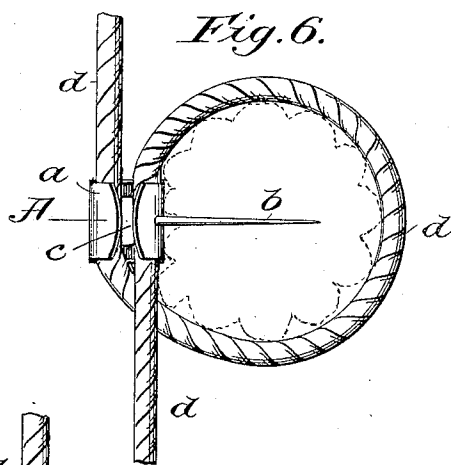
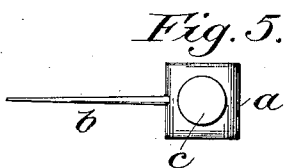
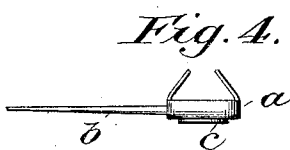
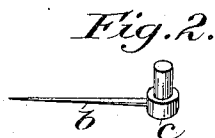
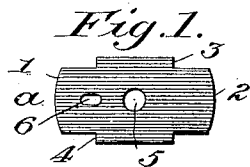


No. 836,560.

PATENTED NOV. 20, 1906.

E. J. BROOKS.
SEAL FOR BAGS.

APPLICATION FILED SEPT. 6, 1906.



Witnesses:

Geo. E. Clavette
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Inventor:

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UNITED STATES PATENT OFFICE.

EDWARD J. BROOKS, OF EAST ORANGE, NEW JERSEY.

SEAL FOR BAGS.

No. 836,560.

Specification of Letters Patent.

Patented Nov. 20, 1906.

Application filed September 6, 1906. Serial No. 333,416.

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 for Bags, of which the following is a specification.

This invention relates to cording-seals for securing the necks of bags and to such seals of the class set forth in my specifications forming part of United States Letters Patent No. 676,415, dated June 18, 1901, and No. 796,108, dated August 1, 1905.

It also relates to those seals for bags each of which include or is provided with a "spear" to penetrate the neck of a bag and prevent the escape of the cord therefrom or the displacement of the metallic seal part.

The present invention consists in an improved seal for bags embodying the novel combinations of parts hereinafter claimed or any of such combinations; and its objects are to combine the characteristics hereinbefore referred to in a simple and secure bag-seal and to adapt the same to be made as small as may be required for the lightest bags and to be inexpensively manufactured.

A sheet of drawings accompanies this specification as part thereof.

Figure 1 is a face view of the flat blank of the sheet-metal part of the improved seal. Fig. 2 is a perspective view of its spear and the rivet fast thereon hereinafter referred to. Fig. 3 is a face view of the combined seal part and spear as it leaves the factory. Fig. 4 is an edge view projected from Fig. 3. Fig. 5 is a back view projected from Fig. 4. Figs. 6 and 7 are face and back views, respectively, of the seal part and spear as combined with a cord encircling the neck of a bag, the latter being represented by the scalloped circle in dots, and the seal part being shown before and after the application of the seal-press in the respective views. Figs. 8 and 9 represent large scale-sections on the lines A and B, respectively, and Fig. 10 is a perspective view of a combined seal part and spear, illustrating a modification.

Like reference characters refer to like parts in all the figures.

The improved seal includes a sheet-metal seal part *a*, the flat blank of which is represented by Fig. 1, a spear *b*, and a rivet *c*, cast fast on the heel end of the spear.

The seal part *a* is constructed with a pair

of inwardly-bendable flaps 1 and 2, and preferably and conveniently with a pair of cord-biting flanges 3 and 4 at right angles to said flaps. It is also constructed with a central hole 5, through which the stem of the rivet *c* protrudes, and with a hole 6 or 6', through which the spear protrudes from within the folded seal part.

After folding or bending the seal part *a* into the rectangular shape represented in Figs. 3 to 6, inclusive, and Figs. 8 and 9, the combined spear and rivet *b c*, Fig. 2, is combined therewith by thrusting the spear through the hole 6 or 6' from within outwardly and then inserting the stem of the rivet into the hole 5, after which the stem of the rivet is headed externally, so as to form an impression-taking portion or disk 7 at the back of the seal part, which completes the improved seal or its metallic portion as an article of manufacture. In that shape the combined seal part and spear leaves the factory. It is used for sealing a bag in connection with a strong and flexible cord *d* in the manner illustrated by Figs. 6 and 7, (which see.)

Before or after giving the cord *d* one or more turns around the neck of the bag, the spear *b* is thrust into the neck and the cord is tightened around the neck with the aid of the seal part *a*, as illustrated by Fig. 6. This disposes the ends of the cord *d* across the cord-biting flanges 3 and 4 and between the inwardly-bendable flaps 1 and 2, and prepares the seal for the final press-fastening operation. A suitable seal-press is then applied to the seal part *a* and the disk 7 of the rivet *c*, so as to stamp the latter with an appropriate distinguishing mark, such as "AX," Fig. 7, and at the same time to permanently clamp the cord *d* in contact with the biting-flanges 3 and 4, so as to prevent opening the seal part or releasing the cord without destroying the seal part or so defacing it as to insure detection.

In the species represented by Figs. 1 to 9, inclusive, the spear *b* protrudes through a hole 6 in one of the inwardly-bendable flaps 1 and 2.

In the modification illustrated by Fig. 10 the only change is that the spear *b* protrudes through a hole 6' in one of the cord-biting flanges 3 and 4.

Other like modifications will suggest themselves to those skilled in the art.

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

1. In combination with a suitable cord
5 adapted to encircle the neck of a bag and a
spear adapted to be thrust into said neck, a
soft-metal rivet fast on the heel end of said
spear, and a sheet-metal seal part having
10 holes through which said rivet and spear pro-
trude and a pair of inwardly-bendable flaps
adapted to cross the ends of the cord and to
secure the same when the seal is press
fastened.

2. In combination with a suitable cord
15 adapted to encircle the neck of a bag and a
spear adapted to be thrust into said neck, a
soft-metal rivet fast on the heel end of said
spear, and a sheet-metal seal part having a
pair of inwardly-bendable flaps adapted to
20 cross the ends of the cord and to secure the
same when the seal is press fastened, a cen-
tral hole through which the stem of said rivet
protrudes and a hole in one of the flaps
through which said spear protrudes.

3. A cording-seal, for bags, including a
25 sheet-metal seal part constructed with in-
wardly-bendable flaps arranged to cross the
cord when the latter is drawn taut between
them, a soft-metal rivet having a head within
30 said seal part between said flaps, and a pro-
truding spear the heel end of which is fast in

said head; said sheet-metal seal part having
holes through which said rivet and spear pro-
trude.

4. A cording-seal, for bags, including a 35
sheet-metal seal part constructed with cord-
biting flanges at opposite edges and inwardly-
bendable flaps arranged to cross the cord
when the latter is drawn over said flanges, a
soft-metal rivet having a head within said 40
seal part between said flanges and between
said flaps, and a protruding spear the heel
end of which is fast in said head; said sheet-
metal seal part having holes through which
said rivet and spear protrude.

5. A cording-seal, for bags, including a 45
neck-penetrating spear, a soft-metal rivet
fast on the heel end of said spear and having
an external impression-receiving disk, and a
sheet-metal seal part constructed with cord- 50
biting flanges at opposite edges, inwardly-
bendable flaps arranged to cross the cord
when the latter is drawn over said flanges, a
central hole through which the stem of said
rivet extends, and a hole in one of said flaps 55
through which said spear protrudes, substan-
tially as hereinbefore specified.

EDWARD J. BROOKS.

Witnesses:

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THEO. S. GOTTLIEB.