(No Model.)

N. F. WIGHTMAN.

BAG FASTENER.

No. 588,848. Patented Aug. 24, 1897.

Fig. 1.

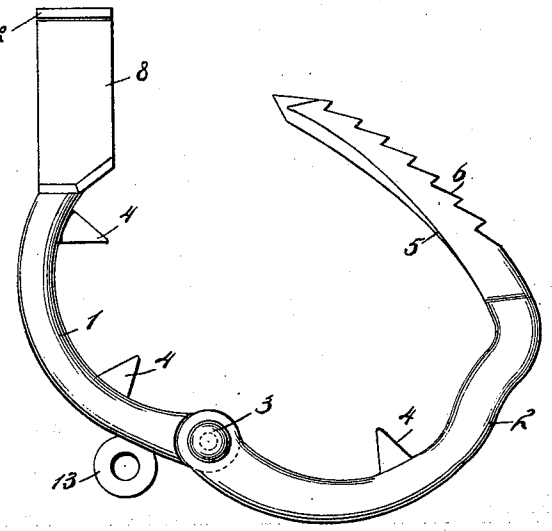


Fig. 2.

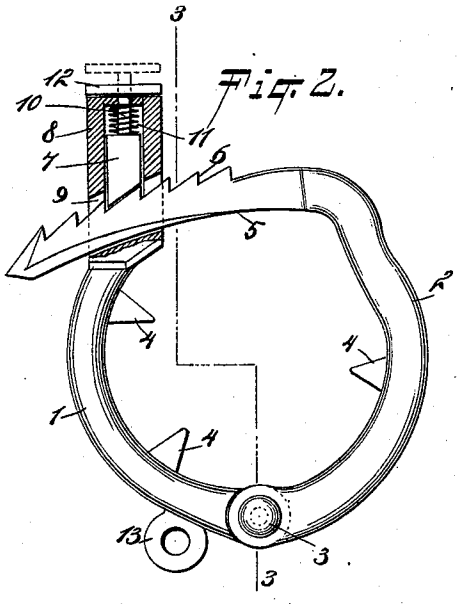


Fig. 3.

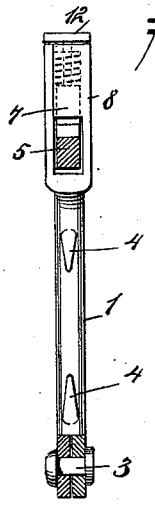
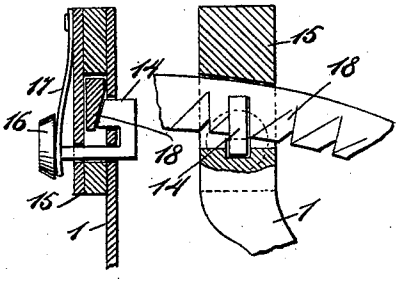


Fig. 4.

Fig. 5.



WITNESSES:

William P. Goebel.

C. R. Ferguson

INVENTOR

N. F. Wightman.

BY

ATTORNEYS.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

NEWELL F. WIGHTMAN, OF MERIDEN, CONNECTICUT.

BAG-FASTENER.

SPECIFICATION forming part of Letters Patent No. 588,848, dated August 24, 1897.

Application filed May 11, 1897. Serial No. 636,009. (No model.)

To all whom it may concern:

Be it known that I, NEWELL F. WIGHTMAN, of South Meriden, in the county of New Haven and State of Connecticut, have invented a new and Improved Bag-Fastener, of which the following is a full, clear, and exact description.

This invention relates particularly to metallic fasteners for grain-bags; and the object is to provide a fastener that will maintain substantially a circular form and position and which will not slip from the bag.

I will describe a bag-fastener embodying my invention, and then point out the novel features in the appended claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of a fastener embodying my invention and showing the same as open. Fig. 2 is a partial plan view and partial section showing the fastener as closed. Fig. 3 is a section on the line 3 3 of Fig. 2. Fig. 4 is a section showing a locking device of modified construction, and Fig. 5 is a section at right angles to Fig. 4.

The fastener comprises two sections 1 and 2, pivotally connected together, as at 3. These two sections are formed each in the segment of a circle, and when in locking position a ring is formed, as shown in Fig. 2. This shape of fastener will more readily conform to the gathered-in end of a bag than would be the case were the sections substantially straight.

Teeth 4 are extended inward from the sections and are designed to engage into the material of a bag, and thus prevent the fastener from slipping thereon. The section 2 of the fastener is provided with an arm 5, having ratchet-teeth 6 on its outer edge, adapted to engage with a locking-block 7, movable in a boxing 8 on the section 1.

The boxing 8 has a transverse opening 9, through which the arm 6 is movable, and the end of the block 7 is beveled, as plainly shown in Fig. 2, so that the arm portion may be moved to its locking position by swinging the section 2 on its pivot.

A stem 10 extends from the block 7 through the end wall of the boxing 8. Between said end wall and the block is a spring 11. The outer end of the stem is provided with a finger-piece 12, which normally rests on the end of the boxing. The fastener will be provided with a ring 13, to which a cord or wire may be attached for securing the fastener to a bag, thus preventing its possible loss.

In operation the two sections of the fastener will be passed around the folded end of the bag and then pressed together sufficiently tight to force the teeth 4 into the material of the bag. To release the fastener, it is only necessary to draw the block 7 upward by placing the thumb and finger on the edge of the finger-piece 12 and forcing the same outward.

In Figs. 4 and 5 I have shown a locking device consisting of a dog 14, movable transversely through the boxing 15 on the section 1 of the fastener. This dog 14 has a push-piece 16 and a spring 17, secured to the boxing, engaging with its free end against the inner side of the push-piece. The dog 14 is designed to engage in notches 18, formed on the side of the arm extending from the section 2. This fastener will also be provided with teeth, as in the example first described.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

A bag-fastener, comprising two pivoted sections, an inwardly-extending tooth on each section, a ratchet-toothed arm on one section, a boxing on the other section, having an opening for the passage of the arm, a block movable in the opening for engaging the arm, a stem extended from the block through the end wall of the boxing, a finger-piece on the outer end of the stem, and a spring surrounding the stem and bearing at one end on the block and at the other end on the end wall of the boxing, substantially as specified.

NEWELL F. WIGHTMAN.

Witnesses:
BENJ. PAGE,
WM. GARLICK.