C. HIERING & A. FULLER.

BAG FASTENER.

APPLICATION FILED JAN. 20, 1910.

980,415.

Patented Jan. 3, 1911.

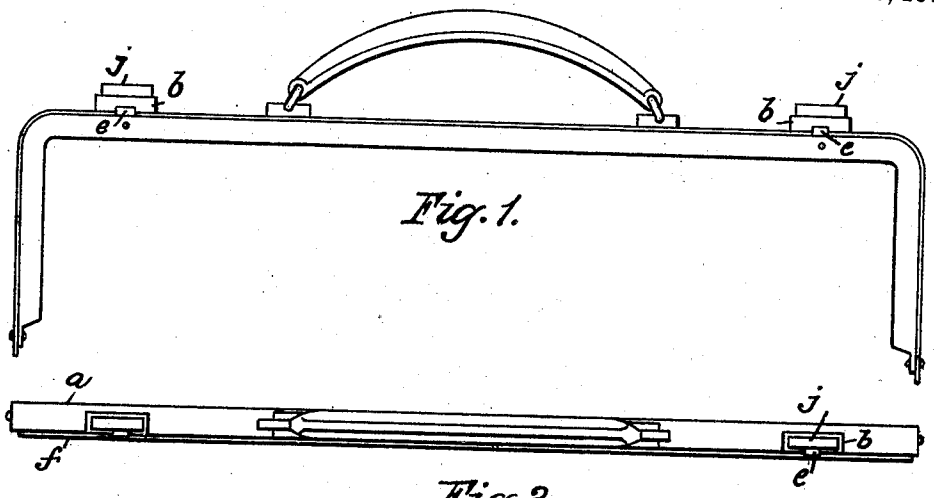


Fig. 1.

Fig. 2.

Fig. 7.

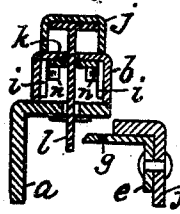


Fig. 4.

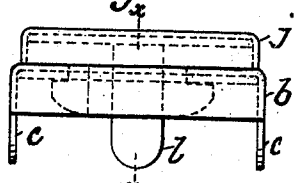
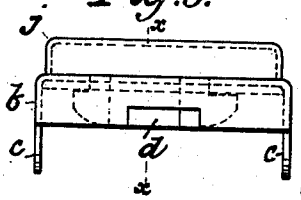


Fig. 3.



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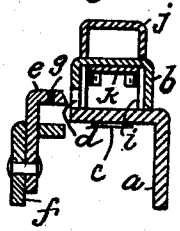


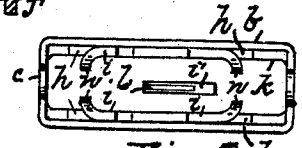


Fig. 5.

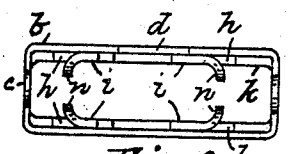
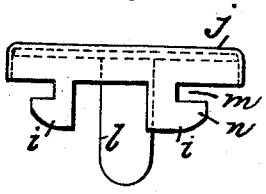


Fig. 6.

Fig. 9.



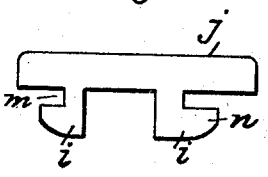
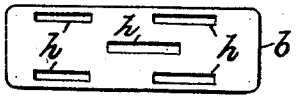


Fig. 10.

Fig. 11.



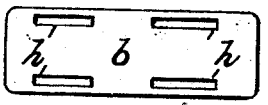


Fig. 12.

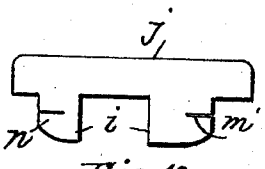


Fig. 13.

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UNITED STATES PATENT OFFICE.

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BAG-FASTENER.

980,415. Specification of Letters Patent. Patented Jan. 3, 1911.

Application filed January 20, 1910. Serial No. 539,167.

To all whom it may concern:

Be it known that we, CHRISTIAN HIERING and ALBERT FULLER, citizens of the United States, residing in the city of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Bag-Fasteners; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make, construct, and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of our invention is to simplify the structure of a bag fastener, so as to render the same positive yet effective in operation, simple in construction, and durable in use.

In carrying out our invention, we make use of the various structures illustrated in the accompanying drawings, in which—

Figure 1 illustrates a side elevation of a bag frame having an improved bag fastener at either end of the frame. Fig. 2 is a plan view of the same. Figs. 3 and 4 are side elevations of the improved bag fastener, a modified form thereof being shown in Fig. 4. Figs. 5 and 6 are bottom plan views of the same. Figs. 7 and 8 are vertical sectional views of said fasteners, taken on lines x—x of Figs. 3 and 4 respectively. Figs. 9 and 10 are front elevations of the slidable operating and locking members. Figs. 11 and 12 are plan views of the chambered base; and Fig. 13 is a front elevation of the slidable locking member in which a slit is substituted for the slot illustrated in Figs. 9 and 10.

Similar letters of reference refer to like parts throughout the specification and drawings.

In bags of the type illustrated, it is customary to provide adjacent to each end of one of the bag frame members a, a chambered base b, secured to the bag frame by means of a pair of integral tongues c, inserted through apertures in the bag frame member a, and clenched over in any suitable and convenient manner. The chambered base b as illustrated, (Fig. 3) is provided upon one side with a rectangular notch d, for the reception of the hook or clip e, said hook or clip being secured to the opposite hinge member f. The forward end of the hook or clip e is provided with a rectangular notch g. The base b and hook e are made "rights and lefts", and so located upon the respective bag frame members a and f respectively, that the hook member will register with the notch d, with the notch g entirely within the chambered base.

The top of the chambered base b is provided with slots h, for the reception of the tongues i, which are formed integrally with the slidable operating member j, said tongues passing through the slots h in the base b, and the reduced portions n are turned over on the flat spring k, thus combining the slidable operating member j with the base b, by the interposition of the flat spring k, so that the same has sliding engagement with the base b and spring k, through the slots h and the tongues i.

In the modified form illustrated in Fig. 4, the base b is not provided with a rectangular notch d such as shown in Fig. 3, but the slidable locking and operating member j is provided with a depending tongue l, which is secured in any convenient manner to the upper inside of the member j, said tongue passing through the center slot h of the base b, and through a similar slot i' formed in the flat spring k. We have also discovered that the slot m can be dispensed with, and a slit m' such as is illustrated in Fig. 13 substituted therefor, in which case, the slots h in the base b are somewhat lengthened and the metal of the tongues i below the slit m' is bent in the same manner as above described.

The spring k may be of any convenient form, and is secured and held in position in the chambered base b by the inturned and reduced portions n of the tongues i, to be hereinafter described, and is preferably of the same shape as the inside of the base, with sufficient clearance on the longitudinal sides to permit those parts of the tongues i which are not inturned to freely slide in the slots h formed in the base b.

When the bag frame sections a and f are separated or opened, the slidable operating member j is retained in its unlocked position by means of the spring k which bears upon the reduced inturned portions of the tongues i, and when said bag frame sections are again moved toward each other to cause the same to assume their closed relation one with

the other, the operating member *j* is by hand forced back into locked relation with the hook or clip *e*. In order to open the bag, the member *j* must be forced by hand out of locked position with the hook or clip *e*.

We have found it highly advantageous to construct the locking member in the manner illustrated in Figs. 9 and 10 of the drawings, in which the tongues *i* are formed with an inwardly projecting slot *m*, the width of which approximately corresponds to the thickness of the metal in the base *a*, plus the thickness of the metal of the spring *k*, and providing one side of said tongues with a reduced portion as at *n*, so that after the tongues have been passed through the slots *h* in the base *b*, the reduced portions *n* of the tongues *i* by means of suitable dies, are bent away from the slot, and toward each other over the spring *k*, as clearly indicated in Figs. 5 and 6 of the drawings. In practice, we have discovered that by making the slot *m* in the tongue *i* of a width approximately the thickness of the metal in the top of the base *b*, the spring *k* may be dispensed with, or the flat spring may be conveniently located in the chambered cap resting upon the base and against the inner and upper surfaces of the cap.

It will thus be clearly seen that the present invention provides a very efficient and exceedingly simple bag fastener, the same being constructed of a minimum number of parts, and reduced to the simplest operative efficiency.

We are aware that changes may be made in the several arrangements of the various parts, as well as in the details of the construction thereof, without departing from the scope of our present invention, hence we do not wish to be limited to the exact arrangements and combinations of the parts, as herein shown and described, nor do we confine ourselves to the exact details of the construction thereof.

We claim:

1. In a bag fastener, the combination of a chambered and slotted base, a slidable locking member secured to said base, and provided with weakened integral slotted lugs for permitting movement of the same, a central depending locking element secured to said locking member, and a spring located in said slotted base in engagement with the said slotted lugs for retaining the locking member in position and said spring provided with an opening through which the locking element of said base passes.

2. In a bag fastener, the combination of a chambered base, a locking member slidably secured to said base and provided with depending lugs, said lugs provided with inwardly extending slots, the metal of the lug adjacent to said slots being turned inwardly to slidably secure the locking member to the base, and for permitting movement of the same, a central depending locking element secured to said locking member and a spring located in said base in engagement with the said depending lugs for retaining the locking member in position.

This specification signed and witnessed this 11th day of January, 1910.

CHRISTIAN HIERING.
ALBERT FULLER.

Witnesses:
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C. A. ALLISTON.