

Balch & Nelson,

Bag Fastener.

No. 113,834.

Patented Apr. 18, 1871.

FIG. I.

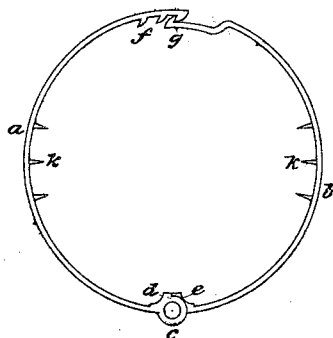
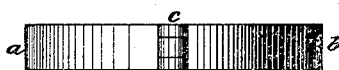


FIG. II.



WITNESSES

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INVENTORS

Alfred Holme Balch
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United States Patent Office.

ALFRED HOLME BALCH AND WOLFRED DAVID EMELIUS NELSON, OF
MONTREAL, CANADA.

Letters Patent No. 113,834, dated April 18, 1871.

IMPROVEMENT IN CLASP-FASTENERS FOR BAGS, &c.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that we, ALFRED HOLME BALCH and WOLFRED DAVID EMELIUS NELSON, both of the city of Montreal, in the district of Montreal, in the Province of Quebec, Canada, gentlemen, have invented new and useful Improvements on Clasp-Fastener for Bags, Sacks, &c.; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, where—

Figure I represents a plan of the fastener.

Figure II represents an elevation of the fastener.

This invention relates to a cheap and more convenient method of securing the mouths of bags, sacks, &c., after they have been filled with the material or substance they are intended to hold, and for performing the same with greater security; and although well adapted for ordinary use, it is more particularly so for millers and others whose materials or manufactures are put up in equal-sized bags, sacks, &c.

In the drawing hereunto annexed similar letters of reference indicate like parts.

a and *b* are two semicircular parts of a metal ring, having one end of each formed on the corresponding part of a hinge, *c*, of ordinary form, but provided with projections *d* and *e* on the inner side, so fitted that they meet together a little in advance of the other ends of *a* and *b*.

On the end of one of the parts, as shown in the drawing on *a*, catches *f*, of the form delineated, are formed on its inner side; the number of these and the distance they extend may be any number and extent found most suitable in general use, three being shown in the drawing.

The corresponding end of the part *b* has a catch, *g*, on its outer side, and is otherwise formed, as shown, to engage with any of the catches *f*. On the inside of the two parts *a* and *b* any desired number of suitable points or spikes is provided.

The operation of the invention is as follows:

The bag or sack having been filled to the required amount, and the mouth gathered together as for ordinary tying, the clasp is opened wide and placed around it, and the catch *g* engaged with the one of those, *f*, most suited to fit tightly the sack or bag to which it is applied. By the shoulders *d* and *e* coming together a little in advance of the catches engaging, an expansive spring action takes place, obviating any danger of the two being disengaged; or any suitable spring may be provided for that purpose.

The points *k*, entering into the material of the sack, also prevent any tendency to its slipping off.

The clasp may also be attached to the bag or sack by a string, &c., securing it to it when not in use and preventing it from being lost.

This clasp, with or without the points *k*, may be applied to many other uses, holding or binding substances or things together.

Having now described the construction and operation of our invention, to which we have given the name of "Balch & Nelson's clasp-fastener for bags, sacks, &c.," we beg to state that

What we claim as our invention, and wish secured by Letters Patent, is the new and useful "improvements on clasp-fastener for bags, sacks, &c.," as follows:

The combination of the semicircular parts *a* and *b*, hinge *c*, projections *d* and *e*, catches *f* and *g*, and points or spikes *k*, all constructed and operating substantially in the manner and for the purpose herein shown and described.

Montreal, 17th day of January, A. D. 1871.

ALFRED HOLME BALCH.

WOLFRED DAVID EMELIUS NELSON.

Witnesses:

CHARLES LEGGIE,

CHARLES G. C. SIMPSON.