

(No Model.)

J. W. VAUGHAN.
BAG FASTENER.

No. 492,071.

Patented Feb. 21, 1893.

Fig. 1.

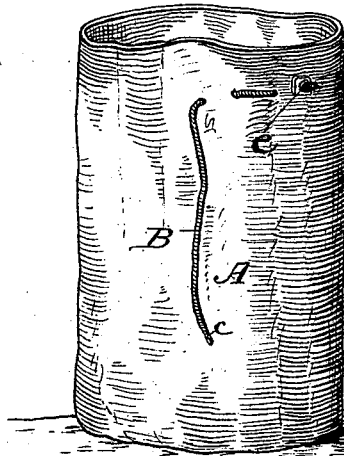


Fig. 2.

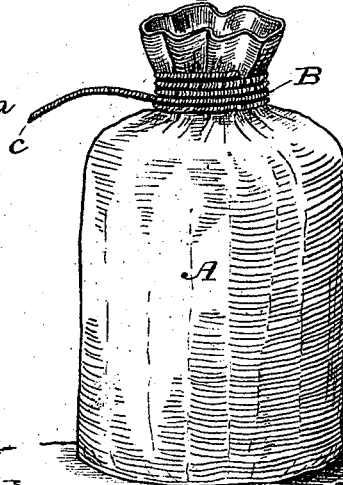


Fig. 3.

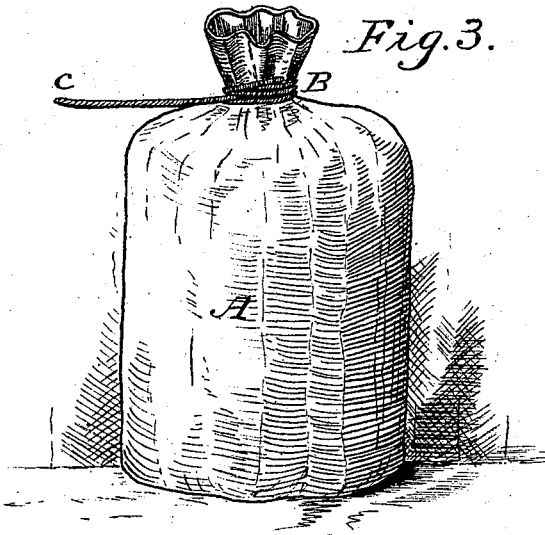
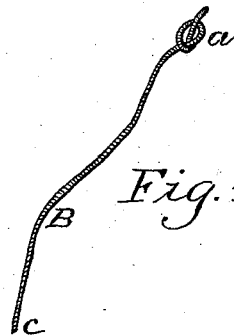


Fig. 4.



WITNESSES.

Frank E. Clark
Fred A. Parney

INVENTOR

Jay W. Vaughan
BY
Kuyper & Smith
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JAY W. VAUGHAN, OF EATON RAPIDS, MICHIGAN.

BAG-FASTENER.

SPECIFICATION forming part of Letters Patent No. 492,071, dated February 21, 1893.

Application filed March 12, 1892. Serial No. 424,731. (No model.)

To all whom it may concern:

Be it known that I, JAY W. VAUGHAN, a citizen of the United States, residing in the city of Eaton Rapids, in the county of Eaton and State of Michigan, have invented a new and useful Improvement in Bag-Fasteners, of which the following is a specification.

My invention relates to improvements in bag-fasteners in which a piece of common string or twine secured at one end to the bag, is used for a tie or fastener; and the objects of my improvement are first, to provide a cheap, strong and durable tie or fastener for bags or sacks; second, to provide an easy and speedy method for fastening and tying bags and sacks when filled; third, to securely fasten the string without tying a hard knot; and fourth, to facilitate the untying of the string and opening of the bag or sack. I attain these objects by the mechanism illustrated in the accompanying drawings, in which

Figure 1. is a detailed view in perspective, of the bag with the cord attached; Fig. 2. is a perspective view of the bag, gathered at the top, with the fastening string wound around the gathered end ready for adjustment; Fig. 3. is a like view of the sack, showing the loose end of the tie-cord, drawn under the coils of the string and fastening the bag, and Fig. 4. is the bag string or cord.

Similar letters refer to similar parts throughout the several views.

The bag A is an ordinary grain bag or sack, through the top of which a cord B is run fastening one end to the bag A as is shown in Fig. 1. The cord B is composed of any good strong cord suitable for tying grain sacks, and has a knot tied in one end to prevent it pulling through the sack A. When the sack A is composed of light or thin material, the cord B may be run through the hem, or the top may be turned down, or a small piece of cloth "e" may be first slipped onto the string to keep the knot "a" of the cord B from drawing through the sack A. The cord B must be of sufficient length to wrap several times around the gathered end of the sack A.

Preparatory to tying the sack A, the cord

B is drawn through the sack A up to the knot "a" and if desirable for strength, through the patch "e," or two or three times through the sack A, leaving enough of the free end "c" to wrap several times around the neck of the bag A when closed. The cord B having one end stitched in to the bag A, will stay in position and not slip over the end when tied. The bag A being filled, I hold the closed end with one hand, and with the other hand the loose end of the cord, B, is wound tightly once, and then loosely several times around the neck of the bag A, assuming the condition shown in Fig. 2. After making one tight and several loose wraps of the cord B, I draw strongly on the end "c" which forces the last coil made beneath the other coils of the cord B as shown in Fig. 3., and any pressure upon the inside of the bag A tending to open it only increases the tension of the cord B over the loose end "c."

In untying the bag A I draw the loose end "c" out from under the coils or laps of the cord B and unwind the same.

By the foregoing device there is no hard knot to tie and untie; the cord is also always at its full strength, while tying a cord in a hard knot tends to weaken and cut itself; in cold weather the sack or bag can be readily tied and untied without removing the gloves or mittens; and by actual experiment several bags can be tied quicker and much better than by tying the cord in a knot.

What I claim, and desire to secure by Letters Patent, is—

A bag fastener consisting of a cord secured at one end to the neck of the bag and adapted to be coiled several times about the neck of said bag, the free end of said cord being then drawn taut whereby one of said coils is forced beneath the others which causes the coils to frictionally interlock and securely close the neck of the bag, substantially as set forth.

JAY W. VAUGHAN.

In presence of—

JOHN M. CORBIN,

WILLIAM H. REYNOLDS.