

(No Model.)

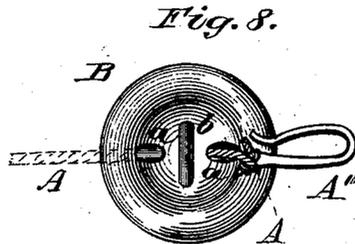
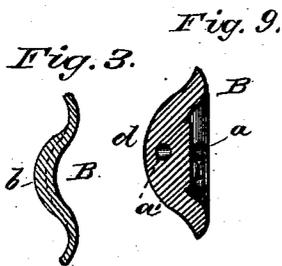
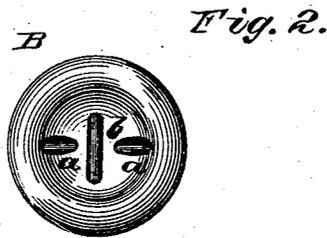
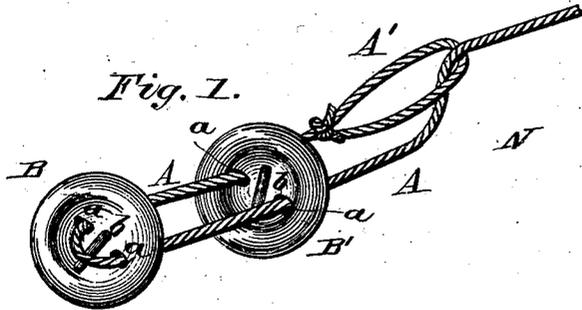
2 Sheets—Sheet 1.

J. L. VANDERMARK.

BAG AND SAIL TIE.

No. 261,501.

Patented July 18, 1882.



WITNESSES:
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P. C. Dieterich

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 ATTORNEYS.

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2 Sheets—Sheet 2.

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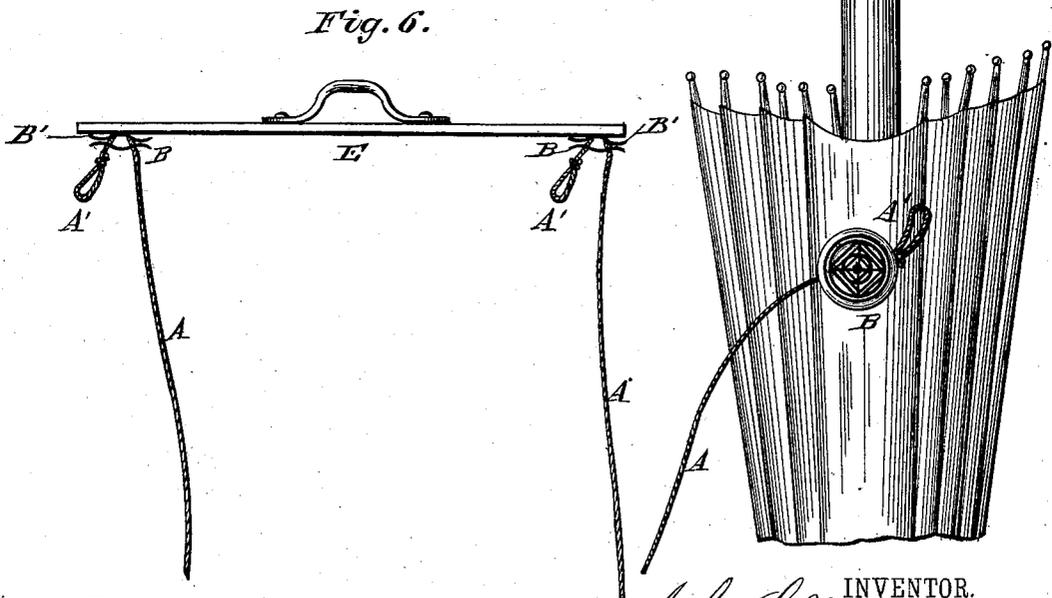
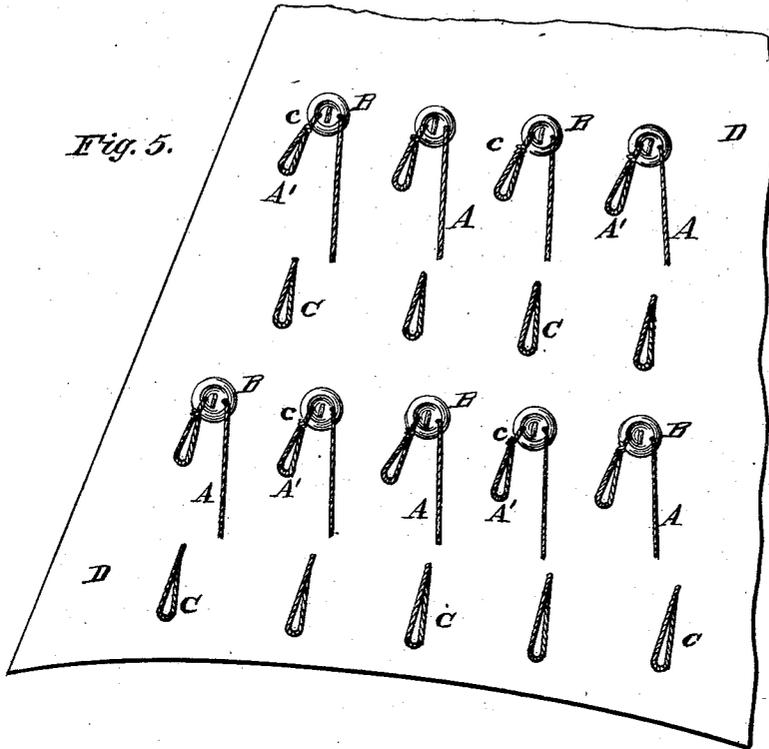


Fig. 7.



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UNITED STATES PATENT OFFICE.

JOHN L. VANDERMARK, OF PULLMAN, ILLINOIS.

BAG AND SAIL TIE.

SPECIFICATION forming part of Letters Patent No. 261,501, dated July 18, 1882.

Application filed April 24, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN L. VANDERMARK, of Pullman, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Bag and Sail Ties; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of the complete tie ready for use. Fig. 2 is a face view of one of the tie disks or buttons, both buttons being constructed exactly alike. Figs. 3 and 4 are diametrical sections through the button shown in Fig. 2, taken at right angles to each other. Fig. 5 shows the application of the device as a sail-tie or reef-band. Fig. 6 shows the application of the device to a shawl-strap. Fig. 7 shows the application of the device as an umbrella strap or fastening. Fig. 8 represents a modification of the device in this, that a metallic hook is substituted for the cord-loop A'; and Figs. 9 and 10 are cross sections, taken at right angles to each other, of a modified construction of the button B.

Similar letters of reference indicate corresponding parts in all the figures.

My invention contemplates certain improvements in bag, bale, or sack ties of that class in which two disks or buttons are employed which are connected by the tying-cord, the free end of the cord, after tying the bag, being fastened by inserting and clamping it between the disks or buttons; and the improvement consists in the specific construction and arrangement of the buttons and tying-cord, &c., as hereinafter more fully described and claimed.

In the accompanying two sheets of drawings, the letter A represents the tying-cord, and B B' the two fastening disks or buttons. The former may have a loop, A', at one end, as shown in Figs. 1, 5, 6, and 7, or a hook, A'', as shown in Fig. 8, the operation of the loop and hook being the same. The two buttons B and B' are precisely alike, and may be made with the same die. It will be seen that they are concavo-convex in cross-section, and have a raised rib, b, formed by "striking

up" the metal of the button in a suitable die (see Fig. 3) on the convex side or bulge, on opposite sides of which, and at right angles thereto, are two oblong slots, a a, so that a line drawn through said slots a a in the direction of their length will intersect rib b at its middle, at right angles.

After forming the loop A' upon the tying-cord, the other end of it is inserted through registering apertures a a in the two buttons, which are placed together, with the convexity of their rims facing or impinging upon each other. It is then drawn across rib b of button B, as shown in Fig. 1, and inserted through the other pair of registering oblong slots a in the two buttons, after which the "stringing" of the buttons is complete and the tie is ready for use. To use it as a bag or sack tie, the free end of the cord is passed through loop A', and the noose N thus formed is slipped over the gathered neck or mouth of the bag and tightened around it by drawing on the free end of the cord. This brings the two buttons B and B' close up against each other, when the free end of the cord, after being wound once or twice more around the neck of the bag, is slipped in between the buttons and wound around the connecting-cord a couple of times, when the fastening is complete.

In the application of my device as a sail-tie or reef-band, as illustrated in Fig. 5 on Sheet 2 of the drawings, the hindmost button, B', (which is covered by B,) is fastened to the sail D in any suitable manner. The ties are arranged horizontally in parallel rows, alternately with rows of their corresponding loops or "reef-points" C. To reef the sail the free end of cord A is inserted through the reef-point C, and then drawn up and inserted through loop A', after which it is wound around between the buttons, in the manner hereinbefore described. This operation is gone through with all the ties in one or more rows, according to the number of "reefs" to be taken in the sail, and with a little practice can be performed much quicker than the usual way of making the reef-points by tying and knotting.

By fastening a pair of buttons, with their tying-cords, at each end of a handle-bar, E, as shown in Fig. 6, I provide a simple device for tying and carrying shawls, traveling-blankets,

bundles, &c., and in Fig. 7 I have illustrated the application of the device as an umbrella strap or fastening. When used for this or similar purposes the appearance of the device may be improved by a modified construction of the outer button, B, as shown in Figs. 7, 9, and 10 of the drawings. In this modification the oblong slots *a a* form a curved channel, *a'*, through the body of the disk, the swell *d* of which may be suitably ornamented by molding, pressing, or otherwise.

In some cases it will be found desirable to substitute a hook for the loop A', as shown at A'' in Fig. 8. When this hook is used the free end of the cord may, after tying, be inserted sidewise into the hook instead of endwise, as through the loop, the operation of the loop and hook being otherwise identical.

Having thus described my improvement, I claim and desire to secure by Letters Patent of the United States—

1. A bag or sail tie composed of a tying-cord,

A, and a pair of buttons, B and B', of identical construction, each being concavo-convex in cross-section, and provided with two oblong cord-holes, *a a*, and a central rib, *b*, between and at right angles to the cord-holes, substantially as and for the purpose herein shown and described.

2. In a tie of the described construction, the combination, with the tying-cord A and button B, having two oblong cord-holes, *a a*, and a central rib, *b*, between and at right angles to said cord-holes, of a clamping-button having a convex swell or rise, *d*, a curved channel, *a'*, and oblong openings *a a*, substantially as and for the purpose herein shown and specified.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

JOHN LORENZO VANDERMARK.

Witnesses:

ROBERT ROCHESTER,

BERLIN E. VANDERMARK.