

H. REDDEN.

GRAIN-BAG.

No. 177,749.

Patented May 23, 1876.

Fig. 1

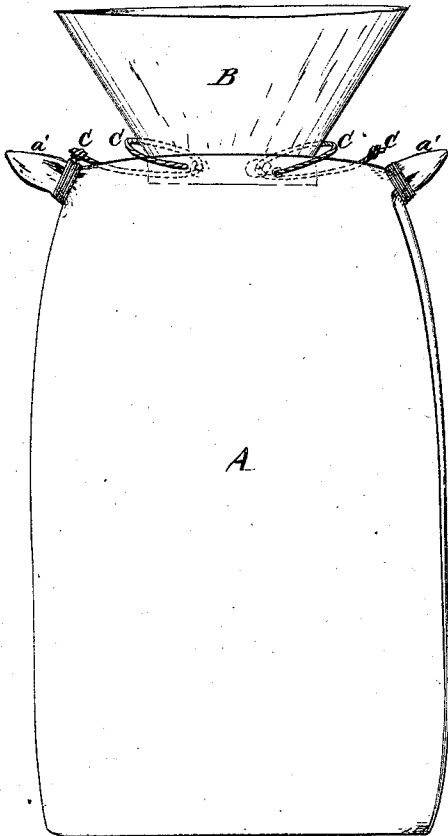


Fig. 2

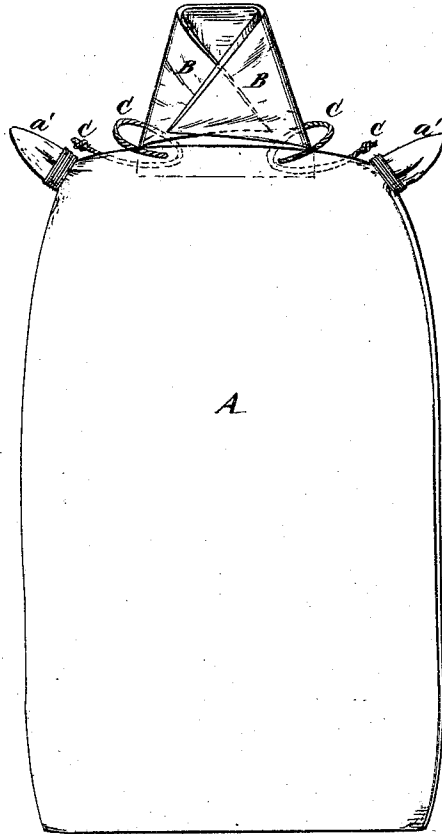


Fig. 3

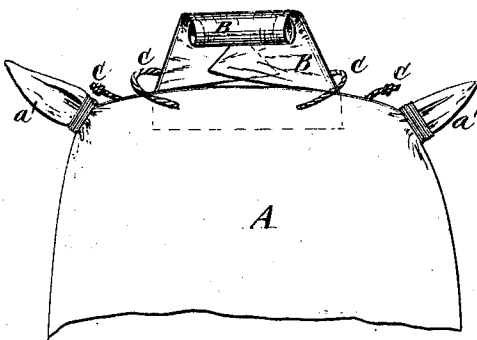
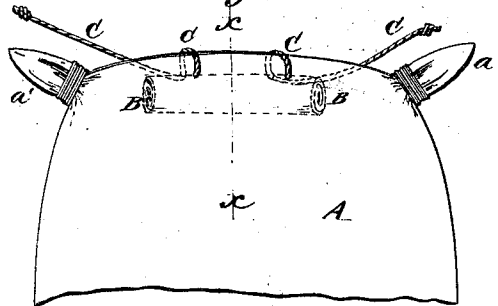


Fig. 4



WITNESSES:

A. W. Amigoist
John Goethals

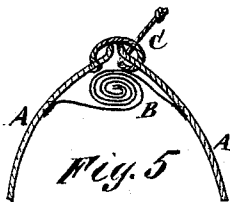


Fig. 5

INVENTOR:

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UNITED STATES PATENT OFFICE.

HENRY REDDEN, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND JOHN E. WALSH, OF SAME PLACE.

IMPROVEMENT IN GRAIN-BAGS.

Specification forming part of Letters Patent No. **177,749**, dated May 23, 1876; application filed April 25, 1876.

To all whom it may concern:

Be it known that I, HENRY REDDEN, of the city, county, and State of New York, have invented a new and Improved Bag, of which the following is a specification:

Figure 1 is a side view of my improved bags filled and ready for tying. Fig. 2 is the same view as Fig. 1, with the corners of the funnel folded over. Fig. 3 is the same view with the folded funnel partly rolled. Fig. 4 is the same view with the funnel rolled into the mouth of the bag and the cords drawn. Fig. 5 is the detail cross-section taken through the line *xx*, Fig. 4.

The object of this invention is to furnish an improvement in securing the mouths of grain and other bags in such a way that the mouths of the bags cannot gape or leak, and which will avoid the necessity of sewing every time they are filled.

The invention consists in the combination of the strings with the mouth of the bag and with the funnel-shaped tube, as hereinafter fully described.

A is the body of the bag, which has lugs *a'* formed upon its corners, in the usual way. In the mouth of the bag A, at a little distance within its edges, is sewed a funnel-shaped or flaring tube, B, through which the bag is filled and emptied.

When the bag has been filled the sides of the funnel B are brought together, and the corners are folded down, as shown in Fig. 2. The folded tube is then rolled together until

it is within the mouth of the bag A, as shown in Figs. 1, 2, and 3. The pressure of the contents of the bag would keep the rolled tube in place; but for additional security I prefer to use the strings C. One end of the cords C are secured to one side of the mouth of the bag A, within the side edges of the funnel B, as shown in the drawings. The strings C are then passed over the mouth of the bag, in through its other side, along the end, and out near the lugs *a'*.

The cords C should have knots formed upon their outer ends, to prevent them from being drawn in.

After the funnel B has been rolled up, the strings are drawn, which closes the mouth of the bag, so that the rolled funnel cannot get out of the said mouth until the strings C are again loosened.

The outer ends of the strings C may be left hanging loose, or they may be tied around the lugs *a'*.

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

The combination of the strings C with the mouth of the bag A and with the funnel-shaped tube B, substantially as herein shown and described.

HENRY REDDEN.

Witnesses:

JAMES T. GRAHAM,
T. B. MOSHER.