No. 671,589. Patented Apr. 9, 1901.

S. P. GRANT.

SECURING DEVICE FOR BAGS, &c.

(Application filed Oct. 6, 1898. Renewed June 30, 1900.)

(No Model.)

Fig. 1.

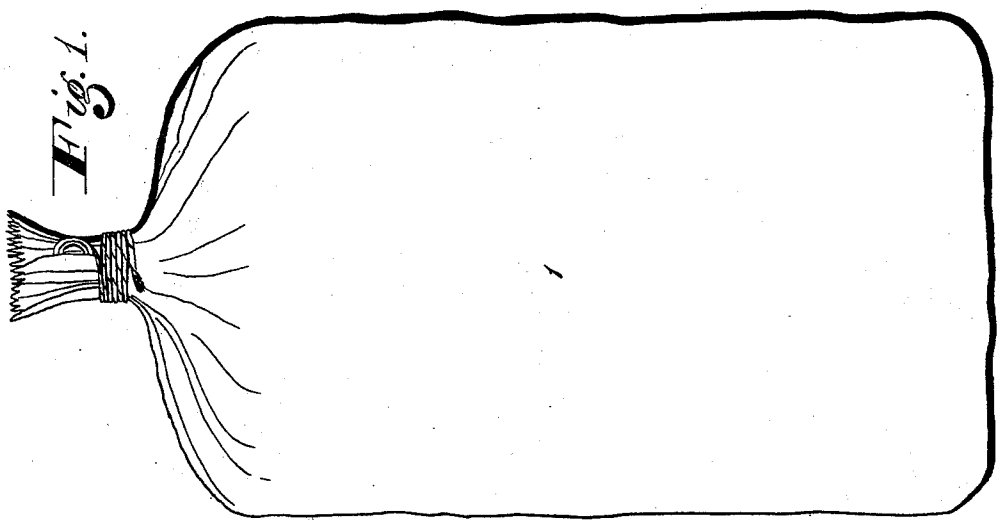


Fig. 2.

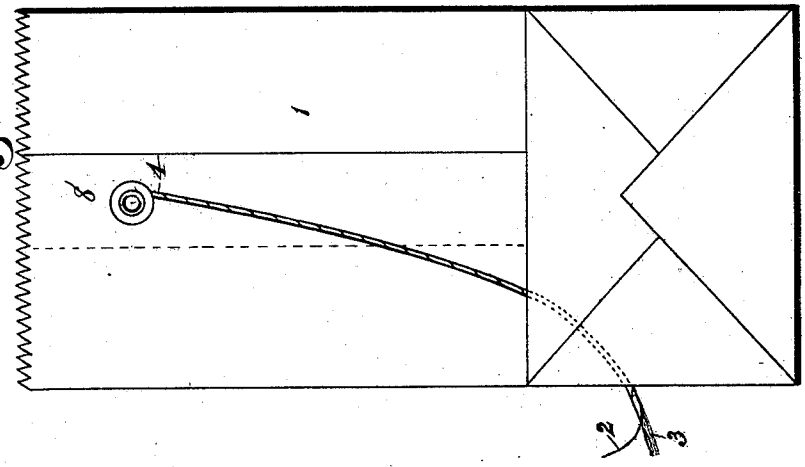


Fig. 3.

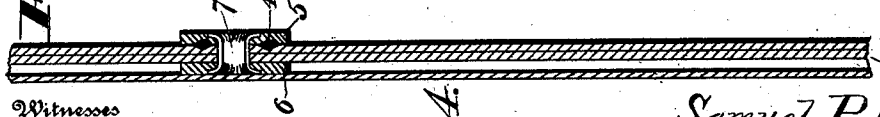


Fig. 4.



Witnesses

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SECURING DEVICE FOR BAGS, &c.

SPECIFICATION forming part of Letters Patent No. 671,589, dated April 9, 1901.

Application filed October 6, 1898. Renewed June 30, 1900. Serial No. 22,184. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL P. GRANT, a citizen of the United States, residing at Danville, in the county of Boyle and State of Kentucky, have invented certain new and useful Improvements in Securing Devices for Bags, &c.; and I 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 and use the same.

My invention relates to a securing device for bags or the like; and it consists in certain novel features of combination and construction of parts, as will be hereinafter fully described and claimed.

One object of my invention, among others, is to provide a securing device which becomes a permanent part of the bag and which is therefore always in position for instant use.

Other objects and advantages will be readily apparent from the following specification, considered in connection with the accompanying drawings, in which—

Figure 1 is a side view of a bag the mouth of which has been gathered and secured by my device. Fig. 2 is a side view of an empty bag provided with my securing device and showing the extreme end thereof slightly untwisted. Fig. 3 is a central vertical section of the bag shown in Fig. 2, but upon an enlarged scale, while Fig. 4 is a cross-section of my improved cord.

Briefly stated, my invention consists in combining an ordinary cord formed of any suitable material, as cotton, linen, paper, or the like, properly combined and preferably twisted into union with a wire formed of some non-resilient metal, as copper, lead, or other "dead" or clinging material, the object being to enable the user to dispense with tying the same after it has been wound around the gathered mouth or constricted end of the filled or partly-filled bag.

While I have illustrated in the accompanying drawings my invention as being applied to an ordinary paper bag prepared in large quantities and sold for ready use to merchants, it will be understood that the device may be as readily attached to any variety of bag, sack, or other similar receptacle, as it will prove of reliable efficiency when used for "tying" or securing the mouth of a grain-sack, &c.

While I have illustrated the preferred means for anchoring my securing device in position upon a bag, it will be understood that any substantial equivalent thereof is comprehended by me.

Referring in detail to the several parts of my invention and the accessories deemed necessary to illustrate the use thereof, 1 is an ordinary paper bag almost completely filled and having its mouth constricted or gathered and secured by my device.

By reference to Figs. 2 and 3 it will be seen that I have combined a wire 2 and an ordinary flexible cord 3, the size of both the wire and the cord being determined by the use to which they are to be applied. In the drawings the wire and cord are shown as being combined by twisting the same together, though it will be obvious that the wire may be embedded, if preferred, in the fibers of the cord or otherwise combined therewith, the secured end 4 of the wire, as illustrated in Fig. 3, being engaged by the exterior washer 5, which, in conjunction with the interior washer 6, are held in close union with each other in any preferred way, as by the metallic eyelet 7, anchored in position in the usual manner. The washers 5 and 6 may be formed of paper or other cheap material and, being preferably secured to the bag at a point thereon which will insure that they will engage the overlap 8, provide a sure anchorage without fear of tearing or injuring the bag when the cord is drawn taut for the purpose of winding it tightly around the constricted mouth of the bag.

In Fig. 4 I have illustrated what will probably prove to be a proper proportion of wire and cord, though said proportions, as will be obvious, may be varied as desired, the object being to provide sufficient metal in the wire to insure that it will cling tightly in its adjusted position, thereby holding the cord with which it is incorporated into a reliable performance of its office.

The object of combining the cord and metal reinforcement is to insure that the paper will not be cut or mutilated, as would be the case if the wire alone were used. While it is thought that copper wire of proper diameter

will be found most desirable for the purpose specified, yet it is clear that any non-resilient wire will be found useful, as the object sought is to insure that the wire will cling tightly around the gathered end of the bag without manifesting a tendency to unwind therefrom, as will be readily understood.

In securing the wire in position a simple loop may be formed therein, if desired, when the eyelet 7 and its coöperating and reinforcing washers are secured in the usual manner after the former extends through a perforation in the overlap of the bag, said loop being so disposed as to encircle the eyelet before the washer 5 is placed in position. It is thought that the eyelet and washers may be secured in position even in advance of the location of the end of the wire, which latter may then be anchored in position by simply wrapping the end around the eyelet under the edge of the washer 5, one or two "turns" around said eyelet being sufficient. After the securing device has thus been anchored in position the bag is then a complete finished article of commerce, ready for the merchant's use, and as my addition to the bag can be secured thereto at a very trifling cost the cost of the simple bag as now provided will be only very slightly increased.

It is thought that the use of my attachment will be readily obvious, though it may be stated that the bag is filled or partly filled in the usual manner, when the open mouth thereof is grasped in the hand and tightly constricted, when my prepared cord is simply wound tightly around said end and the operation is complete, thus enabling the clerk to save much time, as it is entirely unnecessary for him to tie the package with a string, as is now common. The saving of time thus effected is a very important desideratum, inasmuch as the contents are as perfectly secured as though the mouth of the bag had been carefully folded in the most elaborate manner and then wrapped and tied with a string.

Believing that the advantages and construction of my invention have been made fully apparent from the foregoing specification, further reference is deemed unnecessary.

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

1. As a new article of manufacture a bag provided with a combined cord and wire permanently attached thereto whereby when the combined cord and wire is wound around the constricted mouth of the bag it will remain in engagement therewith until unwound, substantially as specified and for the purpose set forth.

2. The combination with a bag of a combined cord and wire, suitable means for attaching the latter to the former whereby when the wire and reinforced cord is wound around the constricted mouth of the bag it will cling tightly in engagement therewith, substantially as specified and for the purpose set forth.

3. The combination with a bag of a combined wire and cord incorporated with each other, and a reinforced eyelet passing through the side of the bag and engaging the end of said cord thereby leaving one end of the cord free to be wound around the mouth of the bag as specified and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

SAMUEL P. GRANT.

Witnesses:
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