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PATENTED JUNE 6, 1905.

W. H. COLEMAN.

FASTENING ATTACHMENT FOR BAGS OR ANALOGOUS PACKAGES.

APPLICATION FILED JUNE 8, 1903.

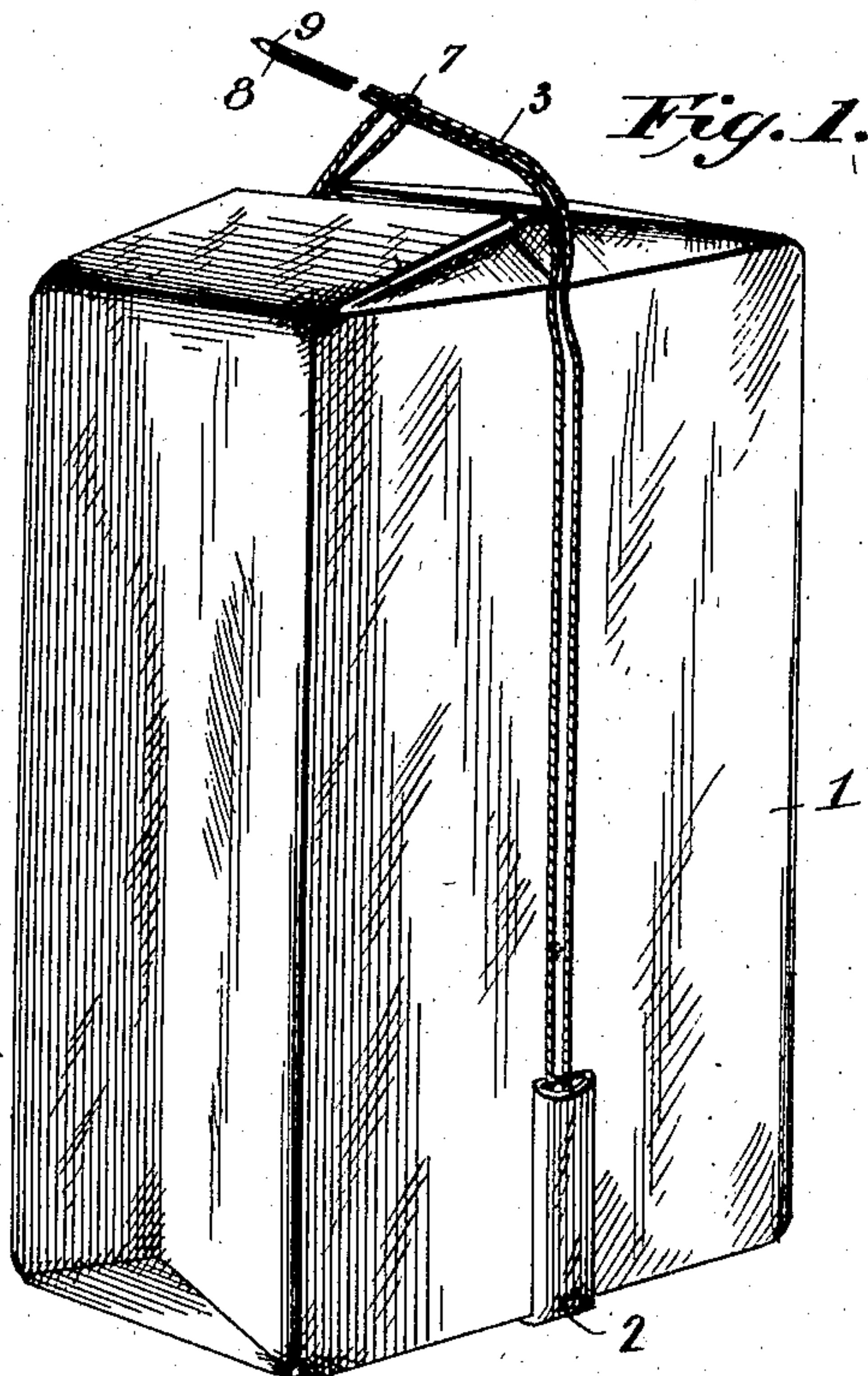


Fig. 1.

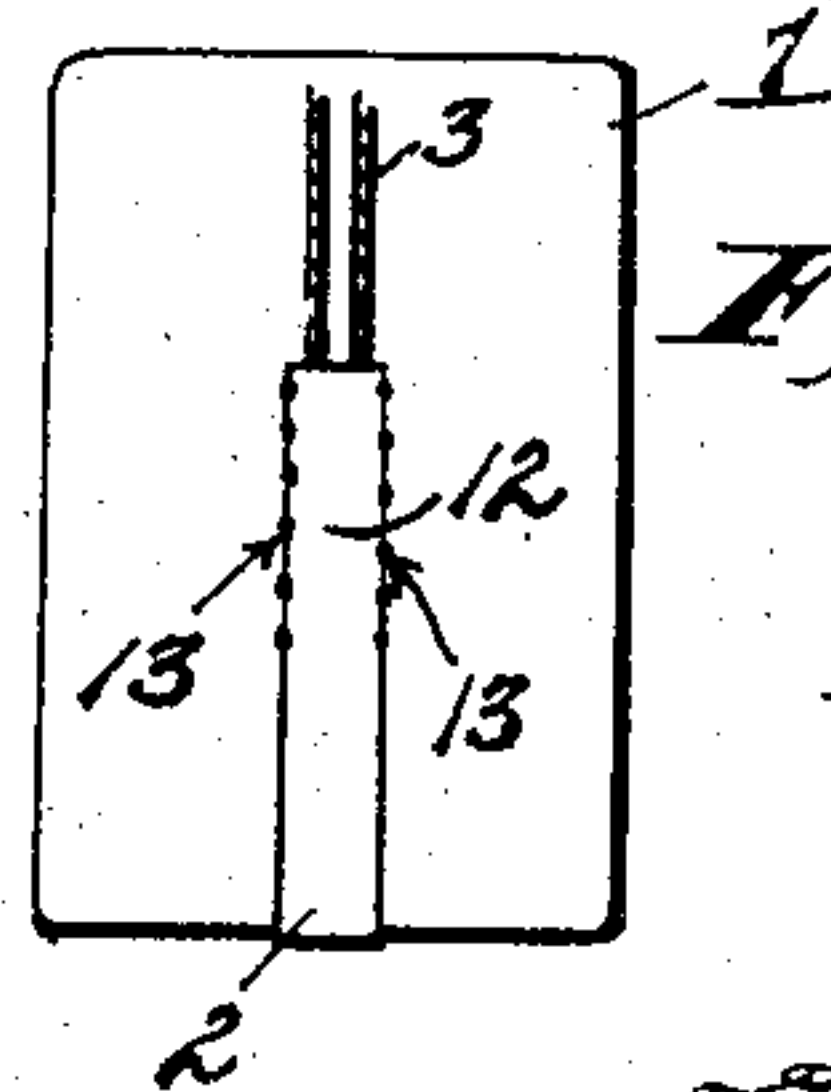


Fig. 7.

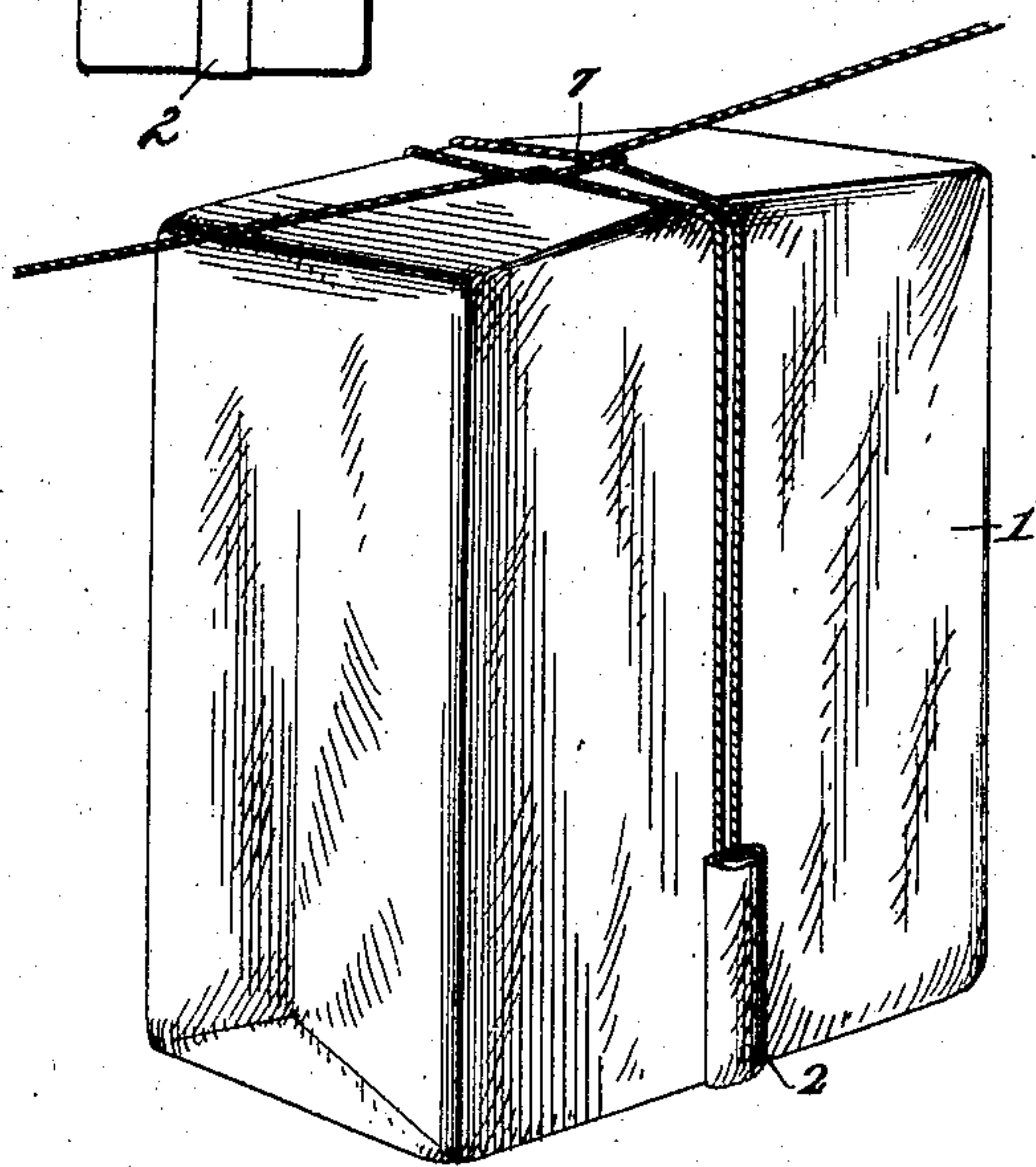


Fig. 2.

Fig. 3.

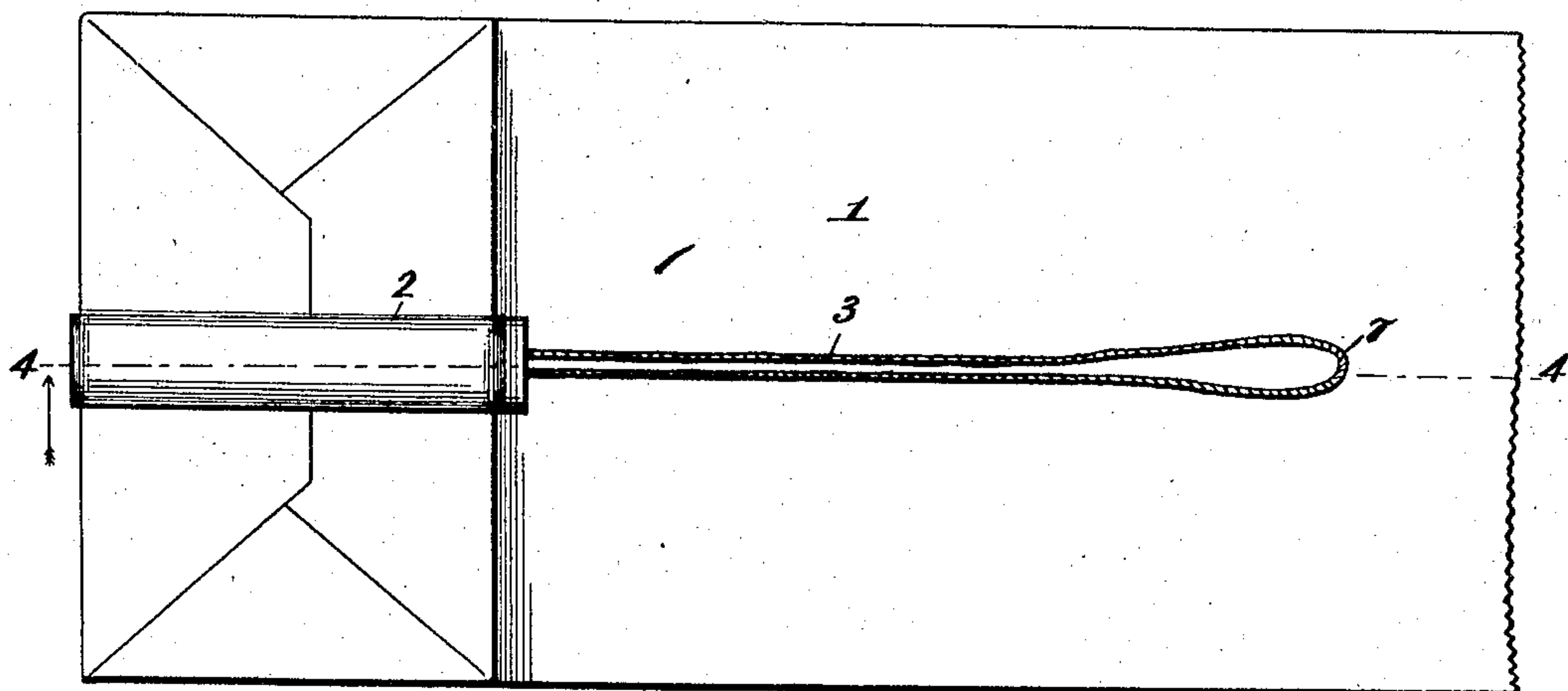


Fig. 4.

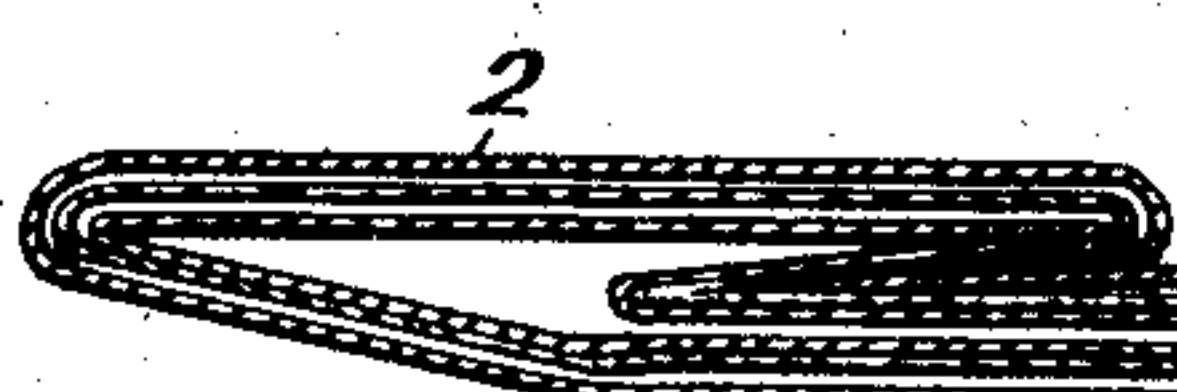


Fig. 5.

Witnesses
C. N. Walker.
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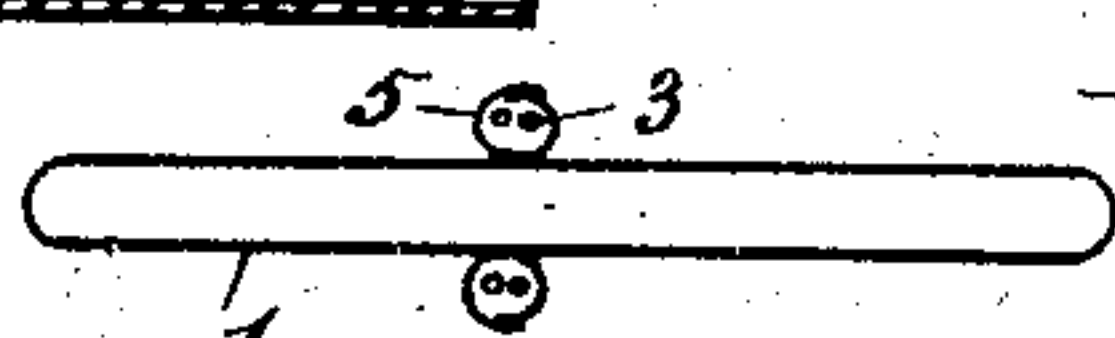


Fig. 6.

by

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UNITED STATES PATENT OFFICE.

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FASTENING ATTACHMENT FOR BAGS OR ANALOGOUS PACKAGES.

SPECIFICATION forming part of Letters Patent No. 791,609, dated June 6, 1905.

Application filed June 8, 1903. Serial No. 160,563.

To all whom it may concern:

Be it known that I, WILLIAM HEAD COLEMAN, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Fastening Attachments for Bags and Analogous Packages, of which the following is a specification.

10 This invention relates to means for effecting a closure or fastening of bags and analogous packages, and has particular reference to a simple and effective form of fastening attachment possessing special utility in connection with cheap paper bags of the type commonly used by grocers and other tradesmen.

15 To this end the invention primarily contemplates a fastening or tying attachment for bags and analogous packages which shall constitute a permanent part or fixture of the bag or package, so as to always be in position for effecting a tying or fastening thereof after the same has been filled or partly filled.

20 A further object is to provide a fastening or tying attachment comprising means for holding a tying string or cord in a centered position about the body of the package and so arranged as to greatly facilitate the tying up of the bag or package. In this connection 30 the invention contemplates such an arrangement of the tying string or cord as to enable the operator to quickly and immediately position the string or cord for the final step in the tying up of the package.

35 Another object is to provide a form of attachment which can be applied to the bag at the time of or subsequent to its manufacture when in a flat condition, while at the same time constituting an effective reinforce for the bag or package, especially about the bottom thereof.

40 With these and many other objects in view, which will readily appear to those familiar with the art as the nature of the invention is better understood, the same consists in the novel construction, combination, and arrangement of parts hereinafter more fully described, illustrated, and claimed.

The essential features of the invention are necessarily susceptible to embodiment in a variety of modifications without departing from the spirit or scope thereof; but a preferred embodiment is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of the filled or partly-filled bag equipped with the attachment constructed in accordance with the present invention and showing the first step in the tying operation. Fig. 2 is a similar view showing the second or final step in the tying operation. Fig. 3 is an elevation of a square-bottom bag in a flat condition and shown equipped with the attachment. Fig. 4 is a detail sectional view on the line 4 4 of Fig. 3. Fig. 5 is a cross-sectional view showing a preferred form of casing for the string. Fig. 6 is a view similar to Fig. 5, showing another form of casing that might be employed. Fig. 7 is a side elevation showing a preferable construction wherein the side legs of the casing are formed with perforated tear-off portions which tear off through the tying of a string when the package or bag is only partially filled.

Like numerals of reference designate corresponding parts in the several figures of the drawings.

While the invention is necessarily adaptable to different forms of packages, still the same possesses special utility in connection with the cheap paper bags such as used by grocers, so it is deemed sufficient for the purposes of this application to illustrate the attachment in connection with a package of this character.

Referring particularly to the drawings, the numeral 1 designates a paper bag of ordinary construction and is shown of the square-bottom type, although this is unimportant as far as the present invention is concerned.

In carrying out the invention in connection with a bag of the type shown in the drawings there is applied to the bag-body at the time of its manufacture or subsequent thereto while in a flat condition a string-casing 2. This string-casing may be constructed of any

suitable material which can be permanently applied to the body of the package, but is preferably formed of a continuous paper strip. This paper strip may be applied or shaped in different ways to provide a casing for holding therein the tying-string 3. A simple embodiment is shown in Fig. 6 and consists in having the side edges 4 of the casing-strip pasted or otherwise fastened to the body of the package and leaving the intermediate portion open throughout to provide a tubular housing 5 for the tying-string; but a preferred construction is shown in detail in Fig. 5, as well as in the other figures, and consists in forming the casing 2 of a strip of paper rolled, as indicated in Fig. 5, in tubular form to provide the interior housing 5 for the string. In this construction an extra thickness of material is disposed next to the body of the bag or package, thus providing an effective reinforcement therefor, while at the same time preventing a tearing through of the tying-string. In all forms of the casing the same is designed to extend transversely across the bottom of the bag or package and along opposite sides thereof a sufficient distance to provide for properly centering the string upon the sides of the bag or package, and by reason of extending entirely across the bottom and above the plane thereof along the sides the bottom is necessarily strongly reinforced.

The opening through the casing 2 freely and loosely accommodates therein the tying-string 3, so that the same will freely adjust itself about the package during the first step in the tying operation. In this connection an important feature of the invention resides in having the tying-string doubled through its casing, with the loop or bight 7 at one side and the terminals 8 at the other. Until used these terminals are designed to be temporarily held together by a temporary needle 9, of wax, twisted paper, or other material, which would permit of the ready insertion through the bight or loop 7.

The attachment does not interfere in the slightest with the opening of the bag in the usual dexterous manner of the grocer, and when the same is filled or partly filled it is only necessary to insert the needle 9 through the bight or loop 7 and draw upon the string, which centers the bight or loop over the top of the package, so that it is simply necessary for the operator to take off the temporary needle 9 and carry the separate terminals

around the opposite sides of the package at right angles to the double portion of the string. This obviates any difficulty on the part of the operator in properly centering the string about the package originally or during the final operation.

In a preferable embodiment of the invention the side legs of the casing are extended well toward the top of the bag or package and formed with lines of perforations, as plainly shown in Fig. 7 of the drawings, to produce tear-off portions 12. These tear-off portions are severed along the lines of perforations 13 through the tying of the string when the bag or package is only partially filled. While in position upon the bag-body the tear-off portions or sections of the casing serve to hold the end portions of the tying string or cord well toward the top of the bag to facilitate the tying operation irrespective of whether the bag is wholly or only partially filled.

Various changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

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

1. A fastening attachment of the class described, comprising a string-casing extending across the bottom of the package and disposed upon the sides thereof, and a doubled tying-string loosely held in said casing and having its bight disposed above one of the side legs of the casing and its terminals above the opposite side leg of the casing, said terminals being provided with a temporary securing-needle.

2. A fastening attachment of the class described, comprising a continuous casing permanently fitted to the body of the package and extending transversely across its bottom, said casing having its side legs extending longitudinally of the sides of the package and provided with perforated tear-off portions or sections, and a tying-string held in the casing.

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

WILLIAM HEAD COLEMAN.

Witnesses:

M. J. TATE,
C. W. LYNN.