

J. M. STRYKER.

BAG TIE.

APPLICATION FILED JUNE 28, 1909.

960,432.

Patented June 7, 1910.

Fig. 1.

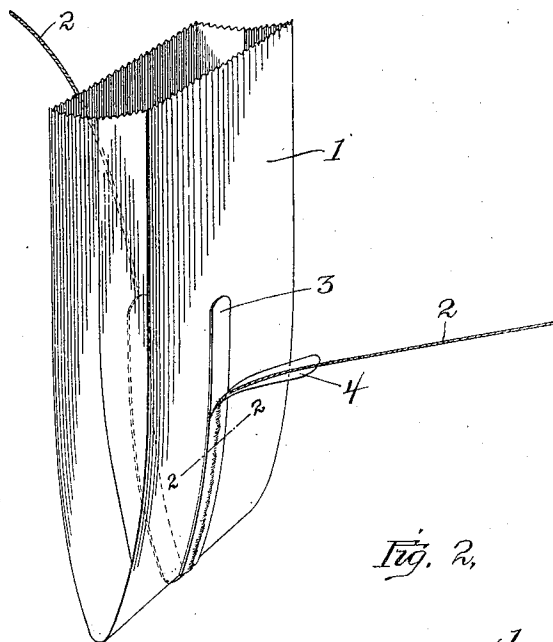
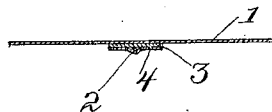


Fig. 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

JAMES M. STRYKER, OF CHICAGO, ILLINOIS.

BAG-TIE.

960,432.

Specification of Letters Patent.

Patented June 7, 1910.

Application filed June 28, 1909. Serial No. 504,677.

To all whom it may concern:

Be it known that I, JAMES M. STRYKER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Bag-Ties, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof.

10 The purpose of this invention is to provide an improved tie for paper bags of the type or class in which the tie is secured to the bag, the specific purposes of the invention being to diminish the liability of tearing the bag by strain on the tie or by accidental pull 15 in the direction tending to detach the tie and at the same time to have the tie secured against longitudinal displacement.

It is specifically an improvement upon the 20 invention for which Patent No. 915,503 was granted to me March 16, 1909.

It consists in the features of construction shown and described as set out in the claim.

25 In the drawings:—Figure 1 is a perspective view of a bag having my improved tie. Fig. 2 is an exaggerated detail section at the line 2—2 on Fig. 1.

To a paper bag, 1, of ordinary construction and design, I secure my improved tie, which comprises a cord, 2, inclosed between two strips of paper, 3 and 4, the former being a reinforce or backing strip secured by suitable adhesive to the outer surface of the 35 bag, extending continuously from a point conveniently near the top at one side down across the bottom and up to a corresponding point at the other side, the strip, 4, being a sheath or cover adherent to the outer surface 40 of the reinforce strip, 3, the cord, 2, being inclosed between the two strips and rendered adherent to either or both of them by the adhesive which secures the strips together. The mode of using the bag with this tie,—that is, of employing the tie to secure the 45 bag when closed,—will be obvious without further description.

50 In order to prevent the liability of tearing the bag by accidental pull upon the cord, the outer sheath strip, 4, is secured to the

inner or reinforce strip, 3, by an adhesive, paste or glue, less adherent than that which secures the reinforce strip to the bag, and having adherence less than the tenacity of the bag fabric itself; that is, so that it will be detached by any pull upon the cords which might tend to rupture the bag by tearing it out at the upper end of the reinforce strip, such detachment requiring less force than necessary to reapture the bag, and 60 less force, also, than necessary to detach the reinforce strip from the bag. This lesser degree of adhesion of the sheath to the reinforce strip is easily effected, even when using the same quality of adhesive, paste 65 or glue, for I find that when the two strips have been pasted together with the cord between them and the sheath and contained cord is then pasted onto the bag, the paste uniting the two cord-inclosing strips forming the sheaths is in a measure weakened 70 by the moisture penetrating the inner or reinforce strip from the paste subsequently applied in attaching the sheath to the bag. But it is a matter of indifference by what 75 means the weaker adhesion of the sheath is effected. In order to further diminish the liability of tearing out the bag at the upper end of the reinforce strip by any pull which might operate in the proper direction for 80 such tearing, it is preferable to round the upper end of said reinforce strips, as shown, which tends to distribute the strain, preventing its concentration at the corners of the reinforce. 85

I claim:—

In combination with a paper bag, a tie comprising a reinforce or backing strip strongly adherent to the outer surface of the bag; a cover or sheath strip less adherent 90 to the reinforce strip, and a cord secured between the two strips against longitudinal displacement.

In testimony whereof, I have hereunto set my hand at Chicago, Illinois, this 25th day 95 of June, 1909.

JAMES M. STRYKER.

Witnesses:

JULIA S. ABBOTT,
M. GERTRUDE ADY.