H. L. ROBERTS.

PAPER BAG SUSPENDING MEANS.

APPLICATION FILED FEB. 7, 1911.

1,019,187. Patented Mar. 5, 1912.

Fig. 1.

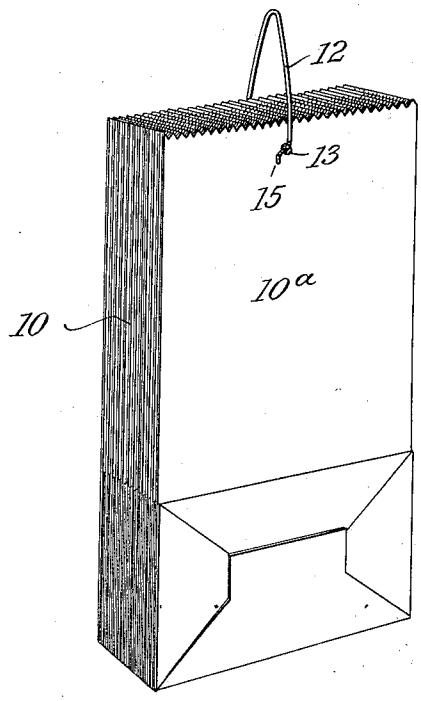
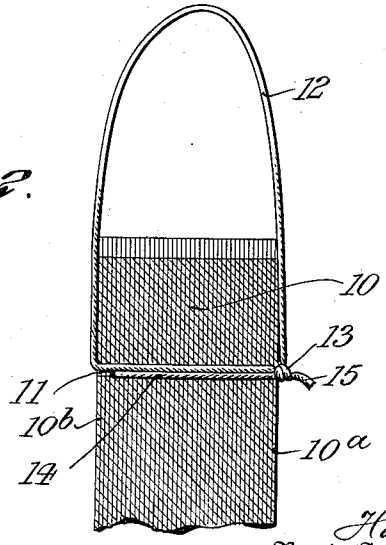


Fig. 2.



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PAPER-BAG-SUSPENDING MEANS.

1,019,187. Specification of Letters Patent. Patented Mar. 5, 1912.

Original application filed October 25, 1910, Serial No. 589,017. Divided and this application filed February 7, 1911. Serial No. 607,039.

To all whom it may concern:

Be it known that I, HORACE L. ROBERTS, a citizen of the United States, residing at Brooklyn, county of Kings, and State of New York, have invented new and useful Improvements in Paper-Bag-Suspending Means, of which the following is a specification.

This invention relates to novel means for suspending a batch of paper bags in such a manner that the bags may be singly torn off for use.

The suspending means comprise a string which is threaded through the bags and tied in such a manner that the knot is located closely against one of the flanking bags, and that one of the string ends is rendered inaccessible. In this way accidental opening of the knot is prevented, and a neat appearance of the finished article is obtained.

A machine for providing bags with my improved suspending means forms the subject matter of a copending patent application filed by me on the 25th day of October, 1910 under Serial Number 589,017 and of which this case is a division.

In the accompanying drawing: Figure 1 is a perspective view of a batch of bags provided with my improved suspending means, and Fig. 2 an enlarged cross section through the upper part thereof.

As illustrated a batch of bags 10 is provided with a transverse perforation 11 for the reception of the suspending string 12. This string is drawn through perforation 11, connected near its ends by a knot 13 in manner hereinafter described and is of such a length that its bight extends a distance above the top of the bags to form a hanger adapted to be engaged by a hook or similar device.

Knot 13 is placed closely against the face of one of the flanking bags 10^a and is so positioned that it is alined with and closes one of the mouths of aperture 11. The knot is preferably of the class known in the art as a "square" knot and one of the ends 14 of string 12 extending beyond the knot passes into perforations 11 and terminates at a distance back of the other flanking bag 10^b so as to become inaccessible. This result is accomplished during manufacture by subjecting the batch of bags to pressure while the string is cut off, so that upon the cessation of the pressure, the bags will expand and extend beyond the severed end. The second end 15 of the string extends outwardly beyond knot 13, and terminates in proximity thereto. As the string is doubled within perforation 11, it will be securely held in position by frictional contact with the bags, so that a shifting of the string is prevented. In this way the knot will be held to its assigned position and string end 14 will be maintained in concealment, so that an accidental opening of the knot is prevented.

I claim:

A package of paper bags having alined perforations in proximity to the open ends of said bags, combined with a knotted string passing through the bag-perforations and having an expanded bight that extends beyond the bags and constitutes a hanger from which the bags may be singly torn off, the string knot being placed closely against one of the flanking bags with one of the string ends extending into said perforations and terminating at a distance back of the other flanking bag, whereby said end is rendered inaccessible while the friction of the string within the bag perforations is increased to maintain the contiguity between the knot and its flanking bag.

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