

Dec. 8, 1931.

C. G. EATON

1,835,477

BAG

Filed July 1, 1927

Fig. 1.

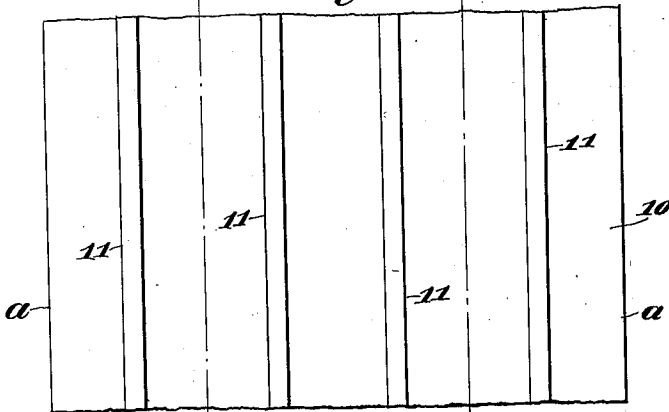


Fig. 2.

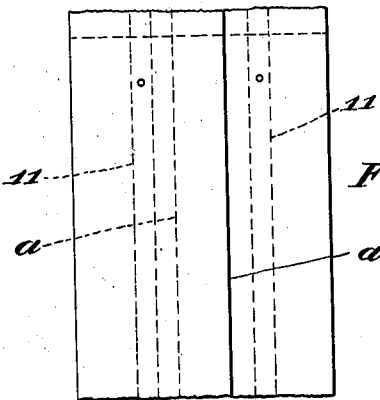


Fig. 3.

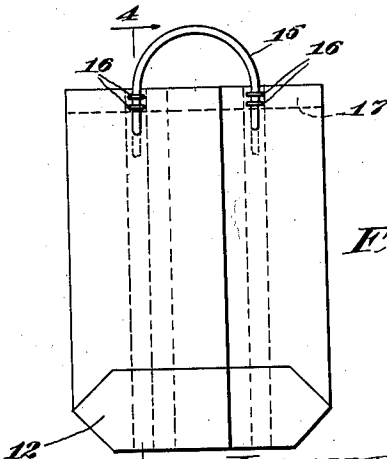
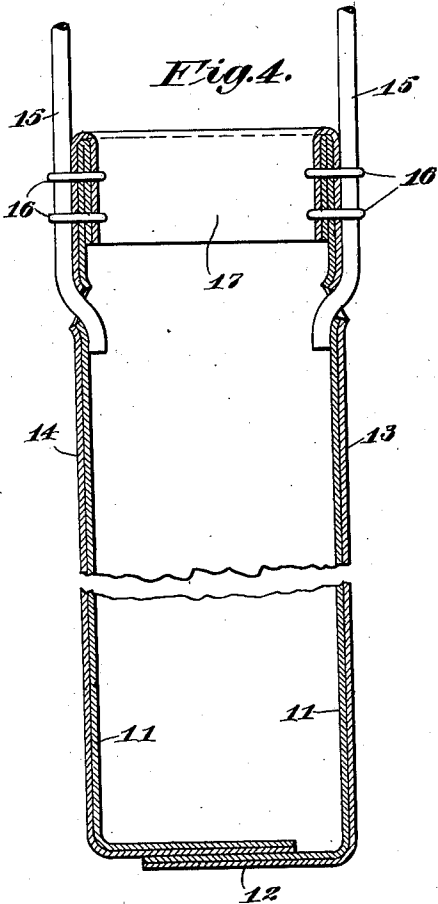


Fig. 4.



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UNITED STATES PATENT OFFICE

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BAG

Application filed July 1, 1927. Serial No. 202,774.

This invention relates to bags of the type commonly constructed of paper or other similar fibrous material and used as shopping bags.

Articles of the type to which this invention relates have been made by folding a paper blank to form a bag having side walls enclosed at one end by a bottom. In some cases a handle has been secured as by riveting near the top of the side walls. In other instances the handle extended through holes in opposite side walls and continued down the outer surface of the side walls and around the bottom. By this latter provision the bag was reinforced at its bottom to support relatively heavy loads. However, a bag constructed in this manner had many objectionable features. For example, when heavy loads were placed in the bag it was bulged with the result that the side walls slipped down. Furthermore, a bag constructed in this manner was difficult to open and it was usually necessary for one to insert their hand into the bag to open it. In addition the handle often cut the side walls and became severed therefrom.

It is the object of the present invention to provide an improved bag of this general type which shall be free from these objectionable features and may be manufactured at relatively low cost.

Before explaining the invention in detail it is pointed out that the embodiment of the invention described is merely by way of illustration and the invention is not thereby limited except as pointed out by the claims appended hereto.

The invention will be more clearly understood from the following description in conjunction with the accompanying drawings; in which

Fig. 1 is a plan view of a blank from which the improved bag of the invention may be made;

Fig. 2 shows the blank with opposite edges overlapped and secured together;

Fig. 3 is an elevational view of the completed bag; and

Fig. 4 is a sectional elevational view taken

upon the line 4—4 of Fig. 3 when the bag is open.

The improved bag of the invention is formed from a blank of paper, cloth or similar fibrous material folded in the usual manner to provide side walls enclosed at one end by a bottom. In accordance with the invention a blank 10 of desired predetermined size is provided with one or more reinforcing strips 11 of paper, cloth or similar material secured as by pasting to one face thereof. Preferably the blank is provided with four such reinforcing strips so that when it is folded in the usual manner to form a bag opposite side walls are provided with two spaced parallel reinforcing strips. In accordance with the usual practice opposite edges *a* of the blank are overlapped and secured together as by pasting to form a tubular article of the type illustrated in Fig. 2. One end of this bag is then slitted and folded in the usual manner to provide an enclosing bottom 12 in which the reinforcing strips 11 overlap (as shown in Fig. 4) and are secured together in any suitable manner as by pasting to form a continuous reinforcing strip secured to the opposite side walls 13 and 14 and the bottom 12. Near the opposite end of the bag or at the top the reinforcing strip or strips are doubled over and a handle 15 is secured to the doubled portion in any suitable manner as by rivets 16. In the form illustrated the open end of the bag is turned in to form a top rim 17 in which the reinforcing strip is doubled and the handle is secured to the doubled portion of adjacent reinforcing strips. Preferably, the reinforcing strips are secured to the interior surface of the side walls and the bottom. If desired, holes may be provided extending through the side walls of the bag and the reinforcing strips and into which the free ends of the handle may extend and be concealed.

The improved bag of the invention is simple in construction and may be made from blanks and folded in accordance with the usual approved methods. It is adapted to carry weight from the bottom and yet hold the side walls from slipping and bulging. The handle is secured to a reinforced portion

of the bag thereby providing a more durable bag. Furthermore, the bag is constructed to carry heavy groups of parcels and yet is adapted to open automatically. In spite of its strength and durable construction it has a neat appearance comparable with the best bags available and may be manufactured at low cost.

What I claim is:

1. A paper shopping bag comprising a single flat blank of paper having a plurality of laterally spaced longitudinally extending paper reinforcing strips secured thereto and with its lateral edges secured together to form side walls and to bring two pairs of said strips in opposed relation in opposite side walls, the adjacent end edges of said walls and said pairs of strips being overlapped and secured together to provide a bottom, and a handle connecting and secured to the ends of each pair of strips.

2. A paper shopping bag comprising a single flat blank of paper having a plurality of laterally spaced longitudinally extending paper reinforcing strips secured thereto and with its lateral edges secured together to form side walls and to bring two pairs of said strips in opposed relation in opposite side walls and upon the inner surface thereof, the adjacent end edges of said walls and said pairs of strips being overlapped and secured together to provide a bottom, a handle connecting and secured to the outer surface of the bag at the ends of each pair of strips, and openings in said side walls and said pairs of strips through which the free ends of said handle project.

3. A paper shopping bag comprising a single flat blank of paper having a plurality of laterally spaced longitudinally extending paper reinforcing strips secured thereto and with its lateral edges secured together to form side walls and to bring two pairs of said strips in opposed relation in opposite side walls and upon the inner surface thereof, the adjacent end edges of said walls and said pairs of strips being overlapped and secured together to provide a bottom, the other end edges of said side walls being turned inwardly and secured to the inner surface of said side walls, a handle connecting each pair of strips, and means for fastening said handles at the outer surface of the bag to the ends of said strips and said in-turned edge.

4. A paper shopping bag comprising a single flat blank of paper having a plurality of laterally spaced longitudinally extending paper reinforcing strips secured thereto and with the lateral edges of said blank being secured together to form side walls and to bring two pairs of said strips in opposed relation in opposite side walls, the adjacent end edges of said walls and said pairs of strips being overlapped and secured together

to provide a bottom, and a handle connecting the ends of each pair of strips.

5. A paper shopping bag formed from a flat blank of paper having a plurality of laterally spaced longitudinally extending paper reinforcing strips secured thereto, and with the lateral edges of said blank being secured together to form side walls and to bring said strips in substantially opposed relation in opposite side walls, the adjacent end edges of said walls being overlapped to form a bottom with said strips extending thereinto from the open end, and handles secured to said strips at the open end.

6. A paper shopping bag with an open top and closed bottom having reinforcing means at opposite sides extending from its top into its bottom, said bag being formed from a flat blank of paper and one of said reinforcing means being a paper reinforcement extending longitudinally of the blank, said blank having its lateral edges overlapped and secured together to form side walls, the paper reinforcement being on the opposite side from the overlapped edges, the adjacent end edges of the walls being overlapped to form the bottom with the paper reinforcement extending thereinto, and handle means secured to said wall and said reinforcing means.

7. A paper shopping bag comprising a tubular body closed by folding at one end to provide a bottom and having a paper reinforcement substantially narrower than the bag at each side extending substantially from the other open end into said closed end, and continuously in close engagement throughout its length with said body and handle means by which the bag is carried secured to said body and to said reinforcements near the open end of the bag.

In testimony whereof I affix my signature.
CARLETON G. EATON.