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2,625,318

BAG WITH HANDLES

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*Fig. 1.*

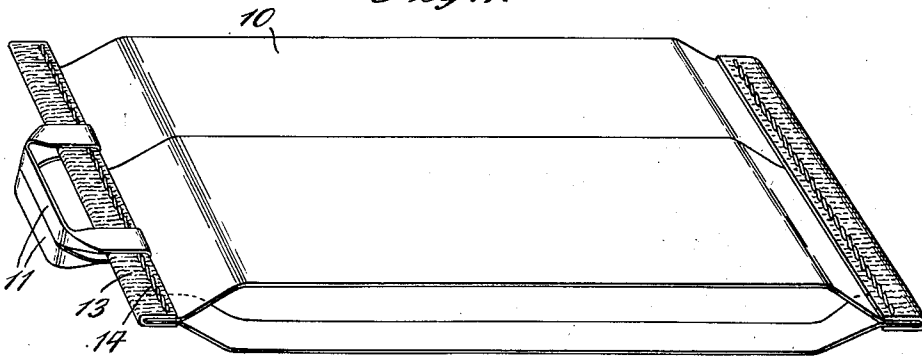


*Fig. 3.*

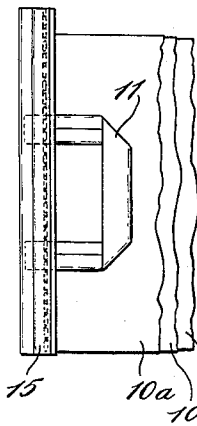


*Fig. 2.*

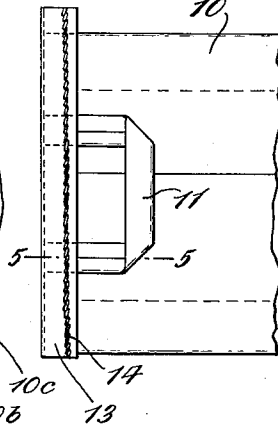


*Fig. 5.*

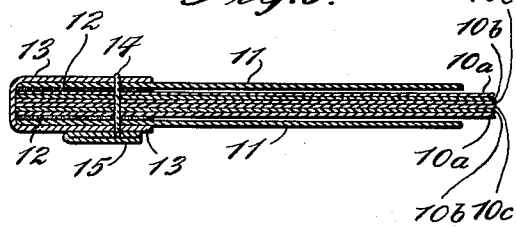
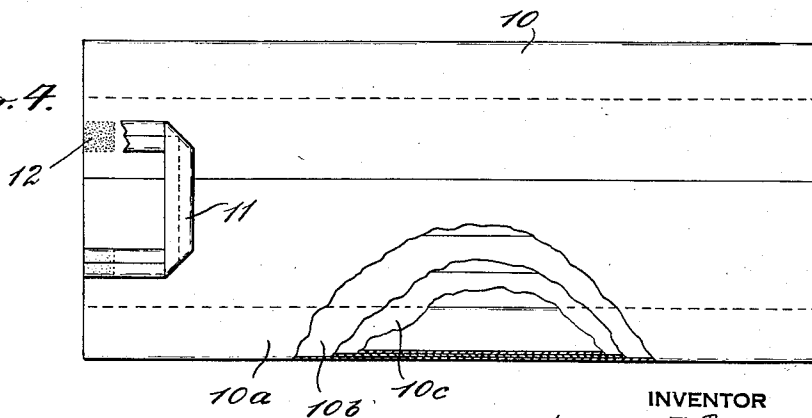


*Fig. 4.*



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## UNITED STATES PATENT OFFICE

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## BAG WITH HANDLES

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3 Claims. (Cl. 229—54)

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The present invention relates to improvements in paper bags and more particularly to a paper bag with handles and the method of manufacturing the same.

The objects and advantages of the invention will be best understood from the following description and the accompanying drawings, in which:

Fig. 1 is a perspective view of a bag embodying the invention;

Fig. 2 is a plan view of an end of a bag including the handle such as illustrated in Fig. 1 but prior to filling;

Fig. 3 is a similar view to Fig. 2, but taken from the rear of the bag.

Fig. 4 is a plan view of a bag such as illustrated in Fig. 2, but prior to sewing the end; and

Fig. 5 is a section view on a somewhat enlarged scale taken along the line 5—5 of Fig. 2.

In the drawings, there is a multi-ply, tubular bag body 10 of the customary type having plies 10a, 10b and 10c with appropriate side folds and gussets. After the tubular body 10 has been formed, a pair of oppositely disposed handles 11 are placed on an end of the body 10. The handles 11 are made from a strip of relatively strong, flexible paper which may be folded lengthwise to multiple thickness and may be folded in a U-shape or other suitable handle shape. The ends of these strips forming the handles 11 are then prepast to the bag body by an adhesive 12. At this time, the handles are in an inverted position and lie flat against opposite sides of the body 10 as shown, for example in Fig. 4.

When the handles have been placed on the body of the bag in the manner described, the next step is to sew the end of the bag. Since the handles lie flat against the sides of the bag, the sewing operation may be carried out without interference from the handles 11. In the form of end closure illustrated, a strip of flexible paper 13 is folded over the open end of the tubular body and extends across the end of the bag. This closure strip 13 also lies over the ends of the handles 11. This strip 13 is then sewn to the end of the bag by a cord 14 which also sews the handles 11 to the bag body. The cord may be sewn in the customary manner for such closure and may be held against unraveling by a folded and pasted tape 15 on one side of the seam.

As pointed out, this sewing operation secures the handles 11 permanently to the bag. This manner of securing the handles to the bag provides a handle that is capable of resisting high shear stresses and which, therefore, is satisfactory for

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use on multi-ply sewn bags which are used to package articles of considerable weight.

In the illustrated embodiment of the invention, the handles 11 have been shown located at the end of the bag which is customarily sewn by the manufacturer. However, if for any reason, it is desired to have the handles 11, or another set of similar handles, located at the opposite end of the bag which is sewn by the user after the bag has been filled, this may readily be done as such handles will not interfere in any way with the use of the usual closure apparatus.

After the bag has been filled, the handles 11 may be bent to the position shown in Fig. 1 for carrying the bag. In this position the gripping portions of the handles are oppositely disposed and it will be noted that the handle illustrated presents a flat gripping surface which is comfortable to the hand.

While a preferred embodiment of the invention has been described and illustrated, it will be apparent to those skilled in the art that various changes and modifications may be made without departing from the scope of the invention as defined by the appended claims.

I claim:

1. In a bag of the type having a sewn end closure, the combination of a tubular bag body having flat side walls, a pair of U-shaped handle members of flexible material located in opposing relation to each other on opposite sides of the flat side walls of the bag body at one end thereof, each of said U-shaped handle members having leg portions extending along the flat side walls of the bag body with the ends of said leg portions being located at the end of said bag body, an end closure strip extending across the said end of the bag with portions thereof being disposed in opposing relation on opposite sides of the bag, said portions extending over the ends of the leg portions of the handles and stitching securing said end closure and handles to the bag, said stitching passing through all of the plies of material comprising the opposing portions of the closure strip, the ends of the leg portions of the handles and the side walls of the bag.

2. In a bag of the type having a sewn end closure the combination of a tubular bag body having flat side walls, a pair of U-shaped handle members formed from flat strips of flexible material, said strip material being folded at right angles where the legs join with the bottoms of

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said U-shaped handles, said U-shaped handle members being located in opposing relation to each other on opposite sides of the flat side walls of said bag body with the ends of the legs of said U-shaped handle members being located at one end of the bag body with the bottom of said handles presenting flat gripping surfaces when the handles are extended beyond the end of the bag, an end closure strip extending across the said end of the bag body, said closure strip having oppositely disposed portions extending on opposite sides of the side walls of the bag, said portions extending over the ends of the U-shaped handle members and stitching securing the closure strip and handles to the bag body, said stitching passing through all of the plies of material comprising the closure strip, the handles and the bag body.

3. In a bag of the type having a sewn end closure, the combination of a tubular bag body having at least two opposing flat side walls, a pair of oppositely disposed U-shaped handles lying flat in inverted position along the outer surface of said opposing side walls each of said U-shaped handles consisting of a strip of flexible material having leg portions extending in spaced relation to each other along one of the flat side walls of the bag body with the ends of said legs being located at the end of the bag body and an intermediate portion connecting said legs at the other ends thereof, said intermediate portion being folded flatwise outwardly and downwardly

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on diagonal lines and across the outer sides of said legs substantially at right angles thereto, said intermediate portion being unfoldable along said diagonal fold lines to form a gripping portion conformable to the hand when the U-shaped handle members are extended beyond the end of the bag body, an end closure strip extending across the said end of the bag body, said closure strip having portions extending on opposite sides of the bag and over the ends of the legs of the U-shaped handles and a sewn seam securing said closure strip and the ends of the legs of the U-shaped handles to the bag body.

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