

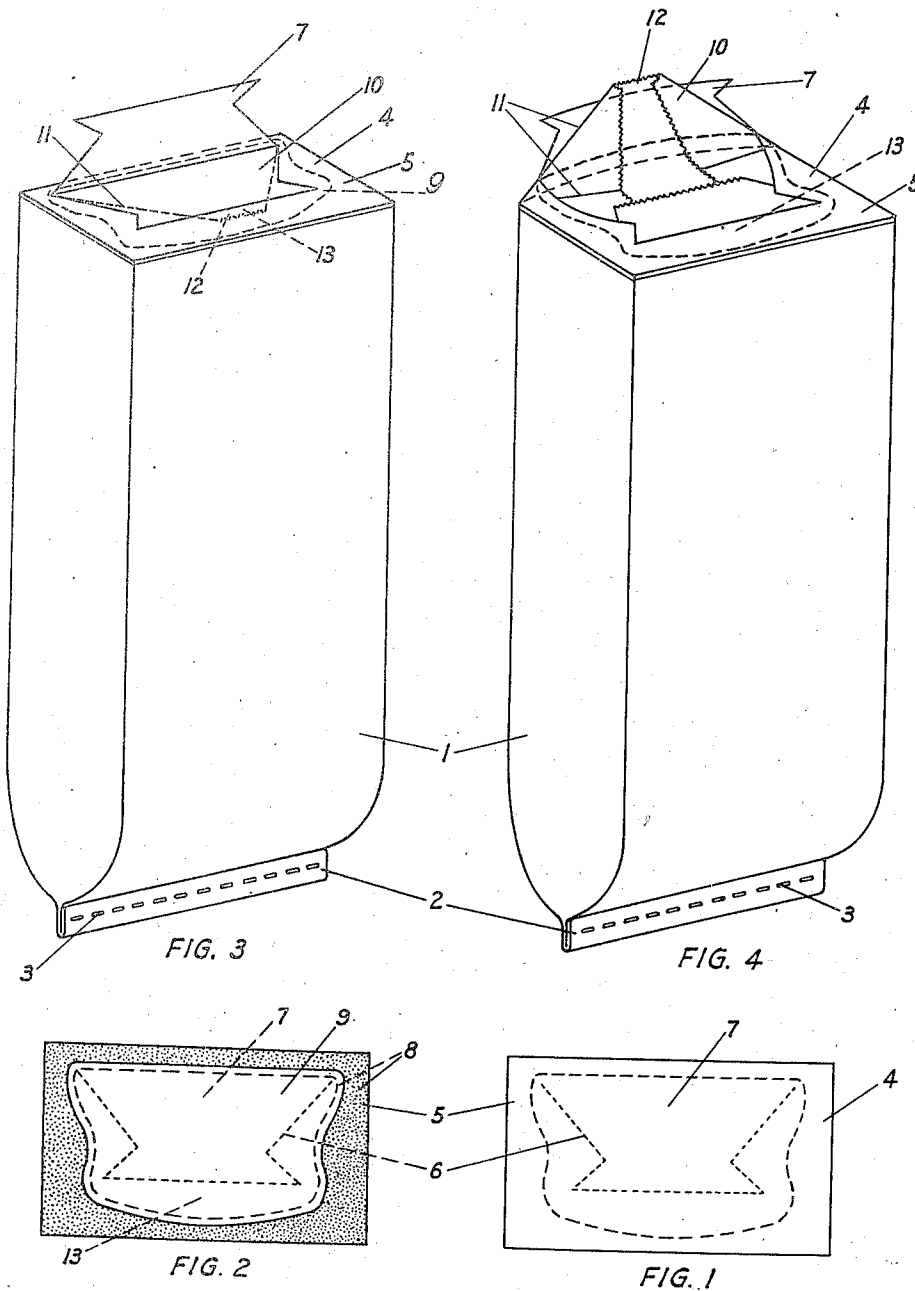
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2,355,313

BAG

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My invention relates to bags and more particularly to bags provided with spouts.

An object of my invention is to provide a bag with a spout which can be made with existing bag machines and in accordance with well known prior art practice in bag making.

Another object of my invention is to provide a bag with a spout which may be tucked into the bottom of the bag when not in use.

Another object of my invention is to provide a bag with a spout formed in its bottom adapted to be tucked into the bottom when not in use with the addition of a shielding member for covering the spout when tucked in place.

Another object of my invention is to provide a bag with a foldable spout in its bottom and a reinforcing plate encircling and reinforcing the base of the spout, when the spout is opened.

Briefly stated, my invention is a bag that is provided with a spout in its bottom which spout when not in use is folded and tucked under one of the members of the bottom of the bag in a manner to completely close the bottom of the bag. In practice my bag is filled from the mouth end in the same manner as other bags are filled. After my bag is filled, however, the mouth is permanently closed by having the mouth folded and stitched together or sealed by means of glue or any other known method for closing bags in common practice.

After the contents have been sealed in my bag, the contents are emptied through the bottom of the bag by means of a spout formation formed therein.

My bag may be made out of any materials suitable for making bags, such as paper, "Cellophane," stiffened cloth, and many other materials. Without limiting my invention as to the material out of which it is made, but merely for the purpose of illustrating an application of my invention, I am including in my disclosure of my invention drawing of a paper bag embodying my invention.

I show my bag in the drawing in an upside-down position to better illustrate the spout feature of my bag constituting my invention. Before proceeding with a detailed description of my bag illustrated in my drawing, I want to point out to the reader that since I have provided a spout in my bag that may be tucked in the bottom in a position to seal the bottom, my bag may be set upon its bottom as well as on the sealed end.

In the drawing:

Figure 1 is a plan view of the bottom of my bag.

Figure 2 is a plan view of one of the members forming the bottom of my bag.

Figure 3 is a perspective view of my bag showing a step in the opening of the bottom of my bag, and

Figure 4 is a perspective view of my bag showing the final step of opening the spout in the bottom of my bag.

Referring to the drawing: Numeral 1 designates the main body portion of my bag. Numeral 2 designates the closed mouth end of my bag shown here closed by stitches 3. Numeral 4 designates generally the bottom of my bag. Numeral 5 designates a reinforcing plate applied in the construction of my bag as an additional member varying from the prior art practice. This reinforcing plate 5 is best seen in Figure 1 and Figure 2. Figure 1 shows the exposed side of the reinforcing plate 5 as it would appear when looking at the bottom of one of my bags before it was put into use. Numeral 6 designates a line of perforations along which the spout shielding flap 7, a removable portion of the reinforcing plate 5 may be dis severed from the reinforcing plate 5. In Figure 2 the reverse side of the reinforcing plate 5 is shown. Numeral 8 designates an adhesive zone on the under side of plate 5, in a position encircling the line of perforations 6 along which the shielding flap 7 is torn from the plate 5. The reinforcing plate 5 is also provided with a sealing patch 9 which is attached to the adhesive zone 8. The sealing patch 9 is made slightly larger than the non-adhesive area of the plate 5 enclosed or surrounded by the adhesive zone 8, so that the peripheral edge of the patch 9 is stuck to the plate 5. This sealing patch 9 is provided for the purpose of preventing any of the contents of the bag from sifting through the line of perforations and to prevent dirt and even air from getting into the sealed bag before the spout 10, to be described later, has been opened up. This sealing patch 9 is purposely made out of thin paper material so that it is easily torn away after the spout shielding flap 7 has been dis severed from the reinforcing plate 5.

The reinforcing plate 5 by virtue of the encircling adhesive zone 8 not only adds strength to the bottom of the bag generally, but also reinforces the spout member 10 of my bag at its base portion where it receives the most wear. It is along the base portion of the spout that it is repeatedly bent in its use. The adhesive zone 8 serves yet another function in that it constrains the base of the spout 10 into a generally semi-

tubular shape when the spout 10 is open determining the shape of the entire spout.

The spout 10 of my bag consists in the final closing flap of a paper bag made according to well known practice. The only difference in the spout 10 of my bag and the final closing flap of prior art bags is that I leave off the adhesive employed in prior art practice to hold the final flap down. When part of the contents of my bag 1 has been emptied out of the spout 10, the spout 10 is folded back on itself on its creasing lines 11 the same as any closing flap is folded in. The tip 12 of the spout 10 is then tucked back underneath the reinforcing plate 5 into the tucking space 13 allowed for this purpose. When the spout 10 is folded over and tucked in as stated above, the bottom of the bag is closed sufficiently tight to retain the contents of the bag even when the bag is held with its bottom down, a reversed position from the position it is illustrated in the drawing. The shielding flap 7 is useful in my invention in preventing the spout 10 from becoming soiled when my bag is set on its bottom 4, but it does not add any strength to the bottom after it has been dis severed from the reinforcing plate 5 and it may be torn off entirely if desired.

Various changes in the construction illustrated in my drawing and described in the foregoing accompanying description may be resorted to within the scope of my invention.

Having thus described my invention, I claim:

1. A bag including a bottom, said bottom including a foldable spout, a reinforcing plate attached to the bottom of the bag over the foldable spout

in its folded position, said reinforcing plate being provided with a ring shaped adhesive zone on its under side in position to encircle the spout, said reinforcing plate being provided with a line of perforations inside of the adhesive zone by means of which an opening may be made through the reinforcing plate to permit the opening of the spout and a sealing patch attached to the under side of the reinforcing plate in a position to underlie the line of perforations and cover the spout.

2. A bag including a bottom, said bottom including a foldable spout, a reinforcing plate attached to the bottom over the foldable spout in its folded position, said reinforcing plate being provided with a line of perforations located at its center by which an opening for the spout to extend may be made, said reinforcing plate being provided with a ring shaped adhesive zone on its under side, a base portion of the spout being stuck to the under side of the reinforcing plate along its adhesive zone whereby the peripheral portion of the plate to which the spout is stuck serves as a reinforcing member for the base portion of the spout.

3. The bag as claimed in claim 2 wherein the line of perforations is positioned inwardly of the inner edge portion of the adhesive zone adjacent to the tip of the spout in folded position and inwardly of the tip of the spout whereby a pocket is formed between the reinforcing plate and the bottom of the bag for the reception of the tip of the spout when in folded position.

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