

Aug. 4, 1931.

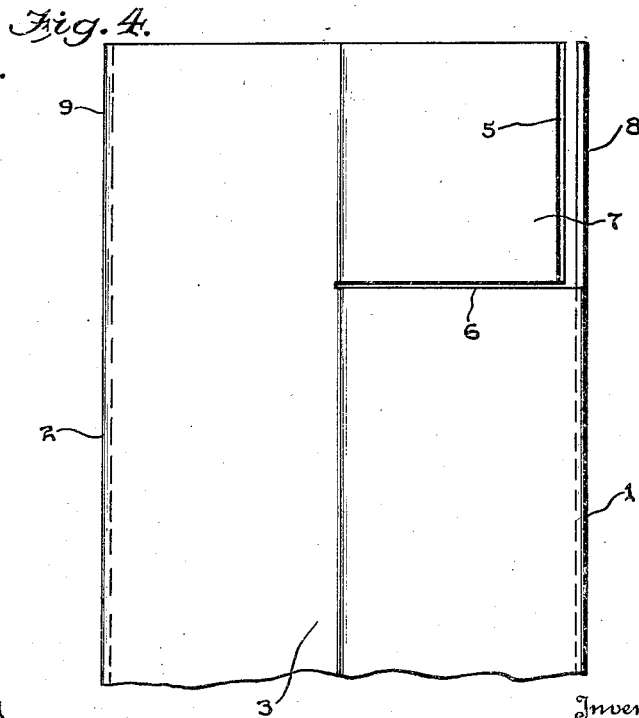
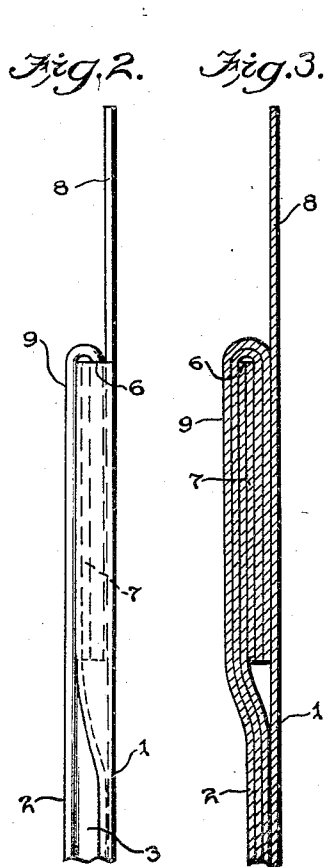
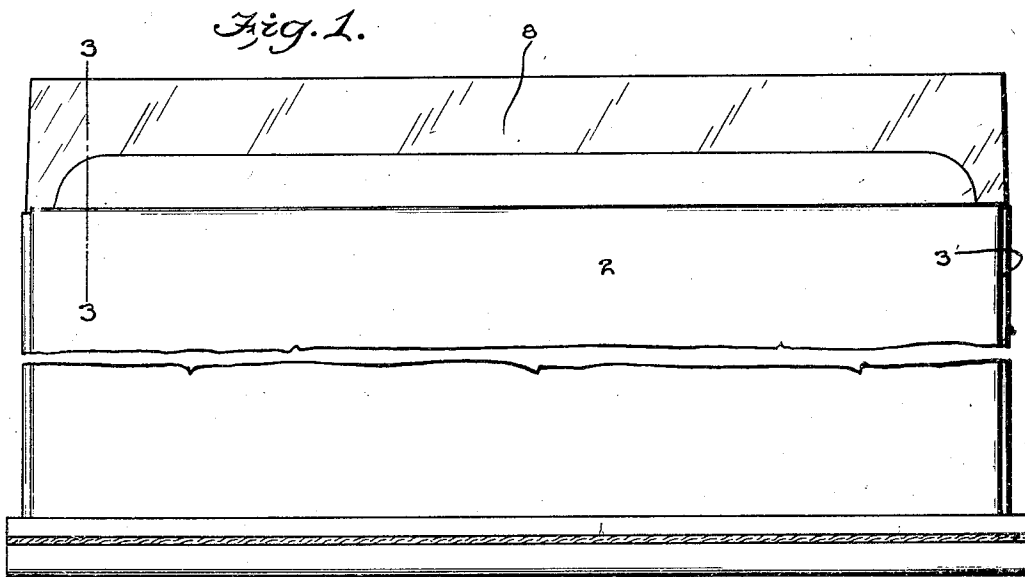
G. A. BAUMAN

1,817,868

OPEN MOUTH BAG

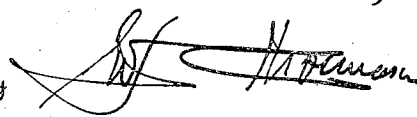
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By 

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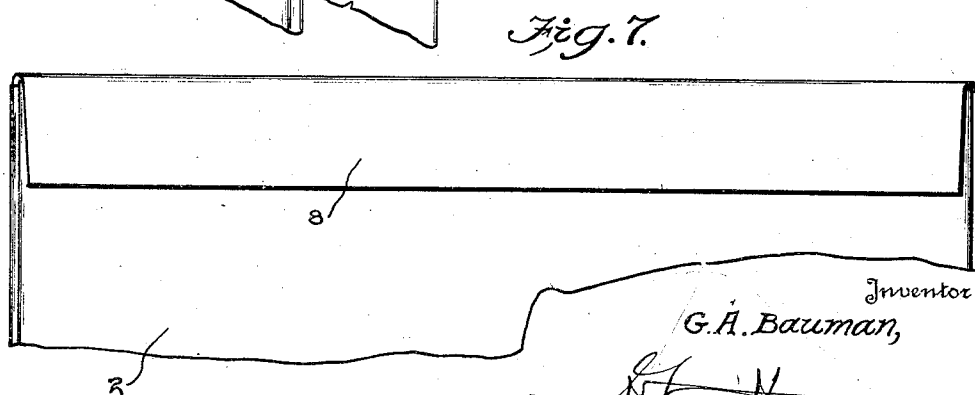
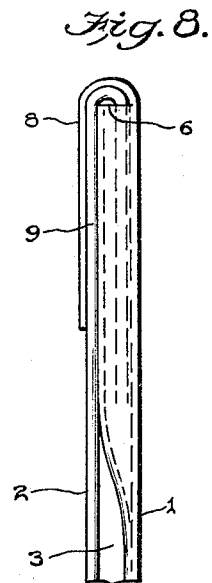
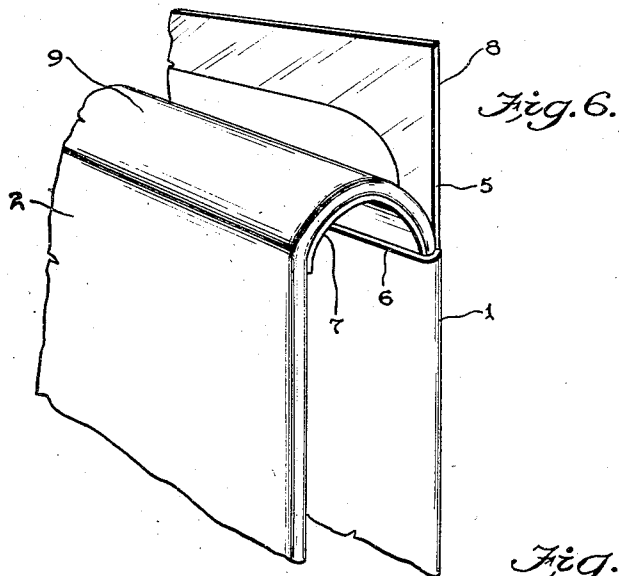
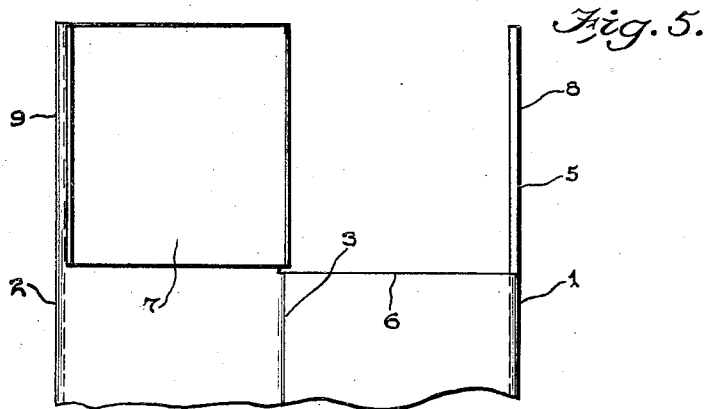
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

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OPEN MOUTH BAG

Application filed March 10, 1930. Serial No. 434,761.

The invention relates to an open mouth bag. The object of the present invention is to improve the construction of paper bags and similar containers, and to provide a simple, practical and efficient paper bag of strong, durable and comparatively inexpensive construction provided at the open mouth with an inner automatically closable flap and with an outer sealing flap adapted to be folded over the mouth of the bag to seal the same after the inner flap has been automatically operated by the contents of the bag to preliminarily close the mouth of the same, whereby the mouth of a square top bag may be securely closed and sealed after the bag has been filled.

With these and other objects in view, the invention consists in the construction and novel combination and arrangement of parts hereinafter described, illustrated in the accompanying drawings, and set forth in the claims hereto appended, it being understood that various changes in the form, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit of the invention or sacrificing any of the advantages thereof.

In the drawings:

Figure 1 is a rear elevation of an open mouth bag constructed in accordance with this invention, the rear or far flap being folded within the mouth of the bag to arrange the latter for filling.

Fig. 2 is an edge view of the same.

Fig. 3 is a vertical sectional view taken on the line 3—3 of Fig. 1.

Fig. 4 is an edge view, the gusset being distended or unfolded to illustrate the arrangement of the cut of the top rear portion thereof.

Fig. 5 is a similar view, the tab formed by the cutting of the front portion of the gusset being folded upon the uncut rear portion thereof.

Fig. 6 is an edge view showing the tab and the rear flap partially folded downwardly into the mouth of the bag.

Fig. 7 is a rear elevation showing the bag closed and sealed.

Fig. 8 is an edge view of the same.

In the accompanying drawings, in which is illustrated the preferred embodiment of the invention, the open mouth bag, which may be constructed of paper, paper cloth, pulp material, or the like, and which may consist of one or more plies, comprises in its construction a front wall 1, a rear wall 2, and side gussets 3. The bag may be constructed on a tubber or in any other desired manner, as will be readily understood, and the bottom of the bag may be closed in any desired manner, such as by folding the lower end of the bag on itself and stitching or otherwise securing the folded portion together. Any suitable means may, of course, be employed for fastening the folds of the closed portion of the bag.

The gusset 3 at each side of the bag is cut vertically or longitudinally at 5 in a downward direction from the top of the bag, and then horizontally or transversely of the gusset as shown at 6 from the juncture of the gusset and the front wall of the bag to the center crease or fold of the gusset to form a tab 7 at each side of the bag. The tab 7, which is rectangular, is folded against the uncut rear portion of the gusset, as clearly illustrated in Fig. 5. The cutting of the gusset at the front portion of the bag to form the said tabs also forms front and rear flaps 8 and 9 and the folding of the tabs and the uncut top portions of the gussets against the end portions of the flaps reinforces the rear flap 9. The rear flap 8 and the far flap 9 for convenience are termed front and rear flaps, respectively, but in filling, the bag may be arranged in any desired position with the flap 8 at either the front or rear, as will be readily understood.

After the tabs and the uncut portions of the gussets are folded against the end portions of the flap 9, the latter is folded downwardly and inwardly into the bag at the cut portions of the gussets, leaving the front flap 8 upstanding for final sealing of the bag. The intumed rear flap 9 constitutes an automatically operable closure for closing the mouth of the bag, and as the bag is filled, the contents rising in the bag will lift the in-

wardly folded flap 9 and cause the same to close the mouth of the bag.

When the bag is filled the closed mouth is sealed by folding the upstanding front flap 8 downwardly over the closed mouth of the bag and against the rear wall 2. The said flap 8 may be secured in its sealing position by glue or other adhesive, or it may be stitched, riveted or otherwise fastened in its closed sealing position.

The bag has an advantage over the ordinary open mouth bag in that when the bag is filled the flap which has been turned in due to the cutting of the gusset is forced upwardly at the top of the opening and automatically closes the bag opening. When the other flap is folded over and fastened, the bag is sealed in a manner which cannot be accomplished unless the gusset is cut back and one flap turned in and forced to its closed position by the contents of the bag.

What is claimed is:

1. A bag of the class described, comprising front and rear walls and gussets connecting the walls at the edges thereof, said gussets being cut downward to form flaps constituting extensions of the front and rear walls, one of said extensions being foldable inward and downward to lie against the opposite wall and extend over the gussets and confine the upper folded ends.

2. A bag of the class described, comprising front and rear walls and gussets connecting the walls at the edges thereof, said gussets being cut longitudinally and then laterally, forming top flaps at the front and rear walls and providing side tabs foldable transversely of the gussets against uncut portions thereof and against one of the said flaps to reinforce the bag adjacent the gussets.

3. A bag of the class described, comprising front and rear walls and gussets connecting the walls at the edges thereof, said gussets being cut longitudinally and then laterally, forming top flaps at the front and rear walls and providing side tabs foldable transversely of the gussets against uncut portions thereof and against one of said flaps, the latter and the folded tabs being folded downwardly and inwardly into the bag at the cut portions of the gussets to provide an automatically operating closure for the mouth of the bag.

4. A bag of the class described, comprising front and rear walls and gussets connecting the walls at the edges thereof, said gussets being cut longitudinally adjacent one of said walls to form top flaps and to provide reinforcing tabs, one of the flaps being folded downwardly and inwardly into the bag over the gussets to confine the upper folded ends and lie against the wall from which the other flap projects to provide a closure adapted to be moved to a closing position by the contents of the bag when the latter is filled.

5. A bag of the class described, comprising

front and rear walls and gussets connecting the walls at the edges thereof, said gussets being cut longitudinally adjacent one of said walls thence laterally to form top flaps and to provide reinforcing tabs, the latter having portions folded laterally, thence inwardly and downwardly together with one of the flaps to confine the upper folded ends of the gussets and to lie against the wall from which the other flap extends, whereby to provide automatically closing reinforcements and a sealing flap.

6. A bag of the class described, comprising front and rear walls and side gussets connecting the walls, said gussets being cut longitudinally adjacent one of the walls and then transversely to the center of each gusset to form transversely foldable tabs and to provide flaps forming extensions of the said walls, the said tabs being adapted to be folded against the uncut portions of the gussets and against the adjacent wall and to be folded downwardly and inwardly into the bag with the adjacent flap to provide a closure adapted to be automatically moved to its closing position by the contents of the bag when the same is being filled, the other flap being adapted to be folded over the top of the bag for sealing the same.

In testimony whereof I have hereunto set my hand this 6th day of March, 1930.

GUSTAVE A. BAUMAN.