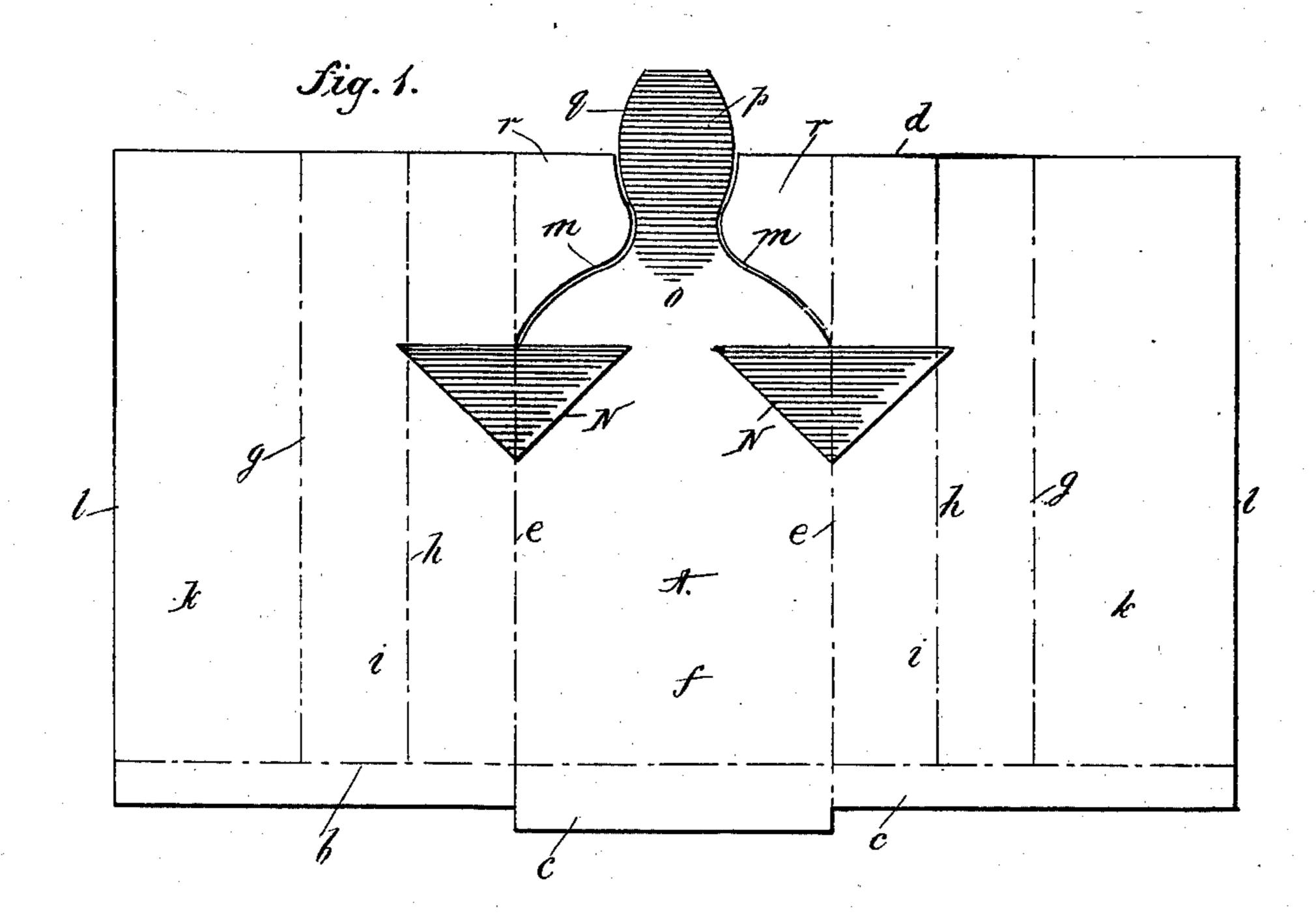
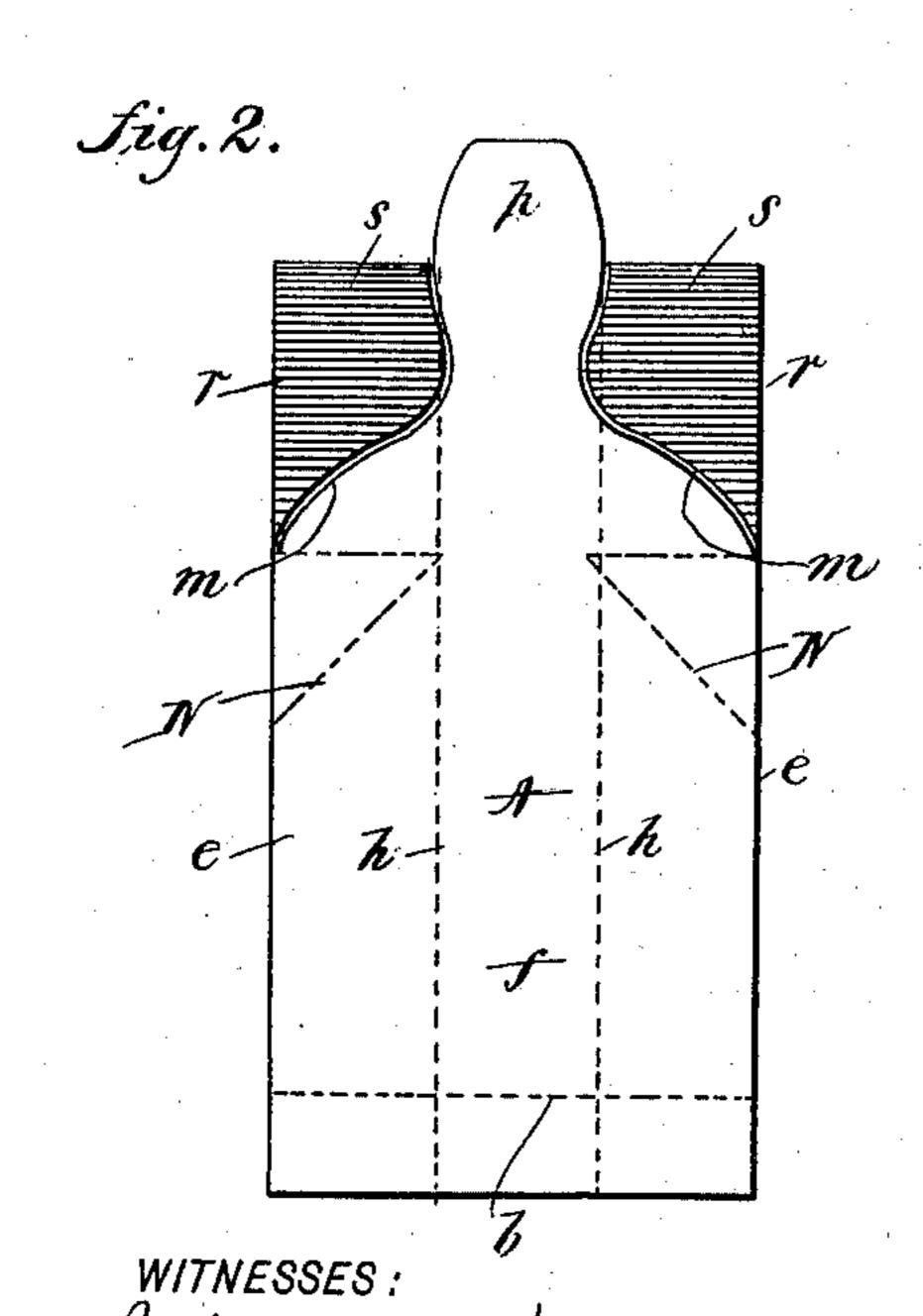
M. D. POLHEMUS. PAPER BAG.

(Application filed Feb. 6, 1900.)

(No Model.)





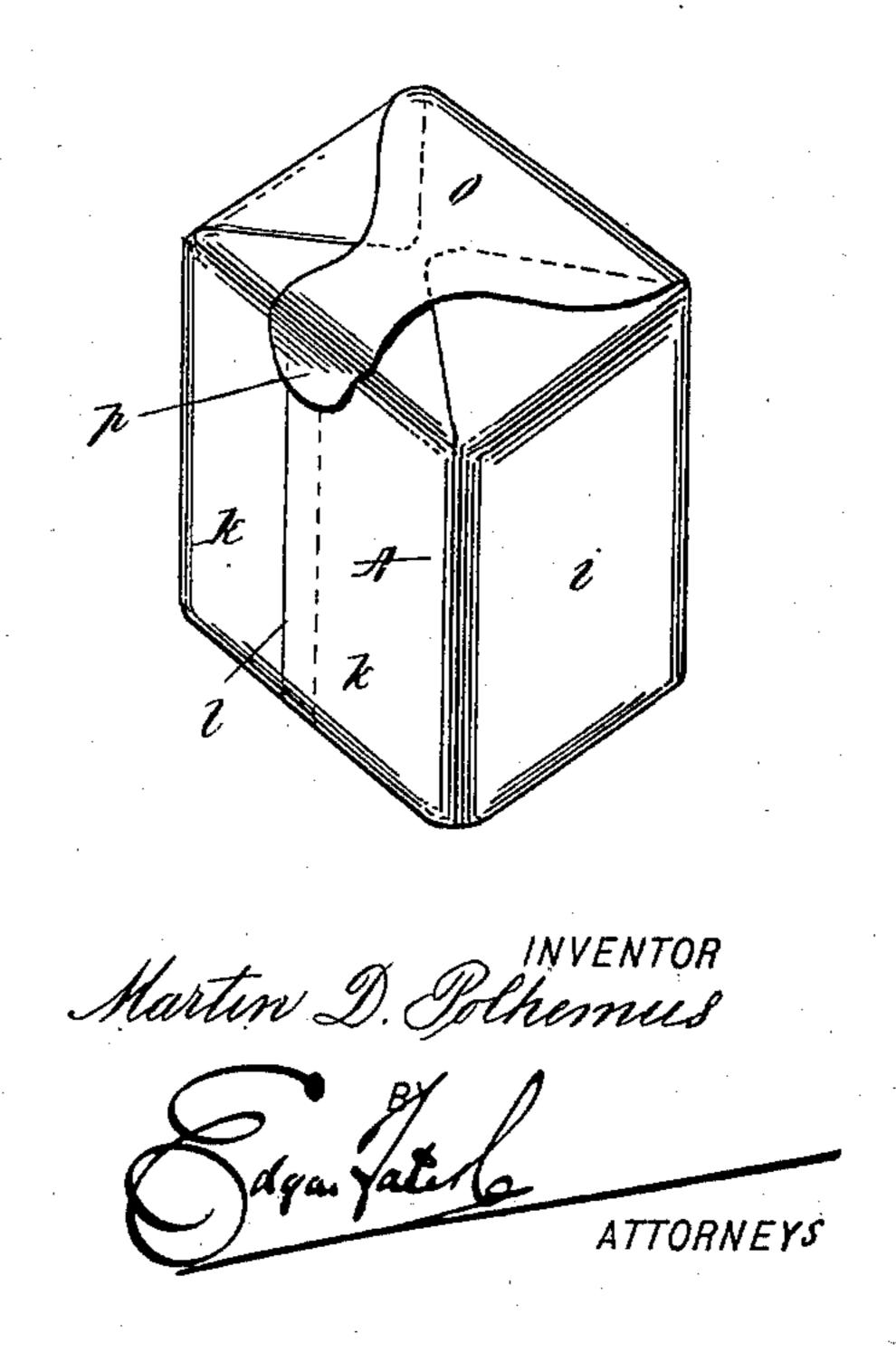


Fig. 3.

UNITED STATES PATENT OFFICE.

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PAPER BAG.

SPECIFICATION forming part of Letters Patent No. 656,302, dated August 21, 1900.

Application filed February 6, 1900. Serial No. 4,172. (No model.)

To all whom it may concern:

Be it known that I, MARTIN D. POLHEMUS, a citizen of the United States, residing at Dobbs Ferry, in the county of Westchester 5 and State of New York, have invented certain new and useful Improvements in Paper Bags, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to ro make and use the same.

This invention relates to paper bags which are designed for use in the wrapping of materials or substances in package form.

The object of my invention is to provide a 15 simple and improved paper bag of this character which will provide a more effective and complete top closure, which will also embody means for sealing said top-closure portions, and which can be inexpensively manufac-20 tured and will be generally more convenient and efficient.

In the accompanying drawings, forming part of this specification, in which like reference characters denote like parts in the several 25 views, Figure 1 is a plan view showing the blank from which my improved paper bag is formed. Fig. 2 is a side view showing the bag as made up into the usual flat form in which it is ready for use. Fig. 3 is a perspec-30 tive view of a package formed with the improved bag.

Referring to the drawings, A designates a body portion which is cut or formed from a paper sheet or blank and is in its general 35 contour an area approximately rectangular. This body-sheet forms the general body of the bag in substantially the usual manner, it being provided near its bottom edge with a longitudinal crease-line, as at b, and the edge 40 or portion, as at c, below said crease-line being adapted to be secured together by pasting or in any other suitable manner to form the closed bottom which is usual in bags of this character. Extending from the longitudinal

45 lower-edge crease-line b to the top edge d of the body A are two parallel crease-lines e e, the portion of the sheet A between the creaselines, as represented at f, being adapted to form one of the front or rear sides or faces of 50 the body of the bag. Outside the crease-lines e, respectively, in the end-wing portions of

crease-lines extending from the longitudinal crease-line b to the top edge d, the outer one of said crease-lines being represented at g, 55 while the inner one, which is located between said crease-lines g and the crease-line e, is designated at h. The portion of the sheet A, as at i, between the lines e and g is adapted to form the side faces of the body of the 60 bag, and the assemblage of creases as involved at this portion enables the folding of the bag into the usual flat position, as represented in Fig. 2, in which such bags are packed and stored for use. The outer end 65 portions k k of the body-sheet A beyond the crease-lines g are adapted to form conjointly the front or rear side or face of the bag-body, their outer end edges l being overlapped, as represented in Fig. 3, and secured together 70 by pasting or otherwise in the usual manner.

My invention and improvements have particular relation to the closure portion of the bag, which is comprised in the body-sheet A, and involves parts located at the upper part 75 of the portion f. In thus producing the improved closure portion I provide slits in the upper part of the portion f, as at m m, which extend from the top edge d, at a point within the plane of the crease-line e, downwardly 80 and outwardly, with their lower ends intersecting said crease-lines e at a point an appropriate distance below the top edge d. Said slits m are preferably curved downwardly and outwardly in a segmental path, as herein 85 illustrated. Just beneath the lower terminal ends of said slits m are provided reinforcingstrips N, which are secured by pasting or otherwise against the inner face of the bodysheet A and which are preferably of trian- 90 gular form, as herein indicated, the purpose of these reinforces being to prevent tearing of the body-sheet A below the bottom terminals of the slits m in the operation of folding and using the bag.

The middle portion of the upper part of the portion f of the body-sheet A between the slits m forms a tongue o, which is adapted to be folded over the top of the bag, as represented in Fig. 3, and sealed by any suitable 100 adhesive substance to retain the top of the bag in closed condition. The top end of the portion o forms the sealing-lip proper, as at the body-sheet A are provided two parallel |p|, and for purposes of sealing the inner face

of said lip p may be provided with a suitable adhesive substance, as represented at q in Fig. 1, or such substance may be applied in the operation of folding and closing the top of the bag. The top part of the portion f, at each side of the central tongue o and between the slot m and the crease-line e, forms inner sealing-flaps, as indicated at r r, which flaps, in the operation of folding the top of the bag, are adapted to be turned down and sealed against the lower or base portion of the tongue o to form a tight closure between the folded

top portion of the bag and said tongue o, whereby the joint of the top opening at the base of said tongue will be effectively sealed and closed and spilling of the contents thus prevented. For sealing purposes the outer face of the flaps or wings rr may be provided with a suitable adhesive substance, as rep-

resented at s, or such substance may be applied in the operation of folding and closing

the top of the bag.

The operation and advantages of my invention will be readily understood by those 25 skilled in the art to which it appertains. When the bag is in the flat form illustrated in Fig. 2, it is simply necessary to spread or open the mouth at the top to fill the contents into the same, when by shaking down said 30 contents the lower portion of the body of the bag will assume the square contour illustrated in Fig. 3. It is then simply necessary to fold over and tuck in that portion of the top of the body which exists at the outside or be-35 yound the flaps or wings r and which forms the front side k k and the end sides i i, in which operation the sealing-flaps r may be turned downwardly, so that their outer faces can be sealed against the inner face of the 40 base portion of the sealing-tongue o, after which said sealing-tongue o may be turned forwardly and downwardly over the folded top of the bag, which folded top will then

have the square contour, as illustrated in Fig. 3, and the lip p of the tongue may be sealed to effectively close the top of the bag. It will be noted that when the bag is folded into the package form illustrated in Fig. 3 the front and side edges at the top are closed

50 by the folds, and the joint existing at the rear edge at the point where the tongue or flap o is extended from the portion f of the body is also effectively closed by the contact of the sealing-flaps r r with the base portion of the

tongue or flap o, and in this operation of folding and closing the top of the bag the reinforces N will effectively operate to prevent tearing of the body of the bag at the joint or crease line existing below the lower termini

60 of the slits m.

Having fully described my invention, I claim as new and desire to secure by Letters Patent—

1. An improved bag of the class described composed of a blank having the top of one of

its side portions provided with a tongue or flap adapted to be turned over the top of the folded blank in forming the bag, and with side flaps arranged at the sides of and independent of said tongue or flap and adapted 70 to be folded downwardly with relation thereto and to be sealed thereto in closing the bag, and reinforcing-strips secured to the blank at the opposite sides and bottom of the tongue or flap, substantially as shown and described. 75

2. An improved paper bag of the class described, having the top part of one of its side portions provided with a tongue or flap adapted to be turned down over the top portion of the folded bag, said tongue or flap being 80 centrally arranged, and with side flaps occupying a position at opposite sides of said main tongue or flap and connected with the body-sheet of the bag at their outer edges with respect to said main tongue or flap, sub-85 stantially as and for the purpose set forth.

3. An improved paper bag of the class described, having the top part of one of its side portions provided with slits extending from the top edge downwardly and outwardly to 90 the side edges or edge crease-lines and dividing said top part into a central main tongue or flap and two side flaps the outer edges of which are connected with the body-sheet of

the bag, substantially as set forth.

4. An improved paper bag of the class described, comprising the body-sheet forming the side portions and having one of said side portions provided with a tongue or flap adapted to fold down over the top of the folded 100 bag and with flaps at opposite sides of said tongue, said side flaps being connected with the body-sheet at their outer portions and said intermediate main tongue or flap and side flaps being arranged to extend below 105 the top edge of said body-sheet.

5. In an improved paper bag of the class described, the combination, with the body-sheet forming the sides of the bag and having the top part of one of said side portions slitted 110 to form a tongue or flap and flaps at the side of said main tongue or flap, of reinforces connected with the body-sheet at the lower

terminus of the slit.

6. An improved paper bag of the class described, having the top part of one of its side portions provided with a tongue or flap and with supplementary flaps arranged at the sides of said main tongue or flap and free therefrom and having their outer edges connected with the body-sheet of the bag, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 5th 125

day of February, 1900.

MARTIN D. POLHEMUS.

Witnesses:

F. A. STEWART, V. M. VOSLER.