

J. H. BARTLETT.

PAPER BAG.

APPLICATION FILED DEC. 19, 1911.

1,027,168.

Patented May 21, 1912.

Fig. 1.

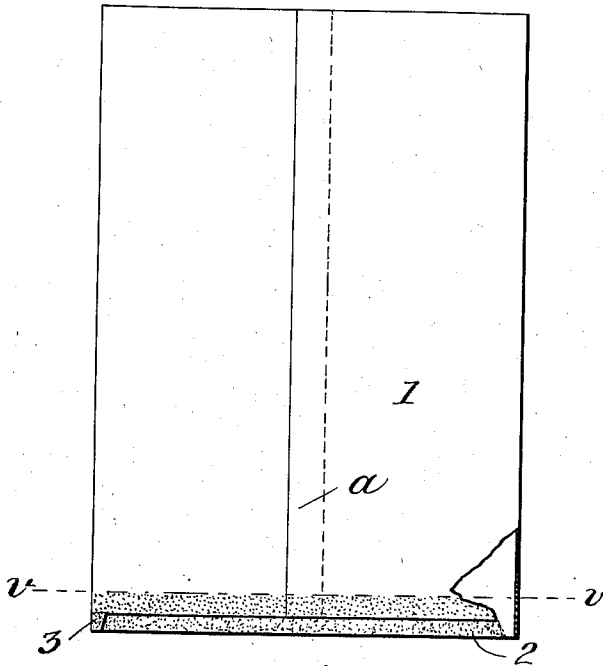


Fig. 2.

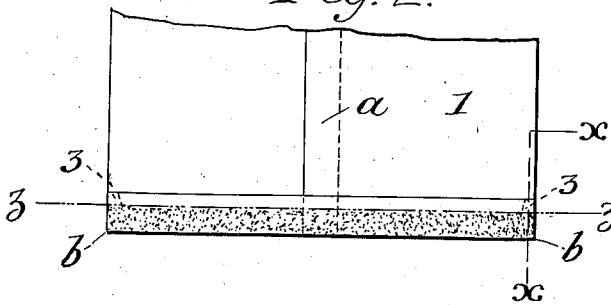
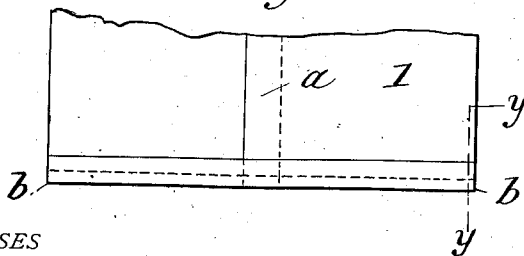


Fig. 3.



WITNESSES

H. B. Woodward.

Sarah Schott.

Fig. 4.

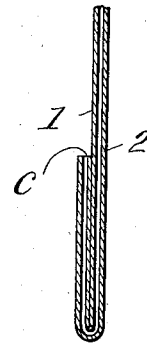
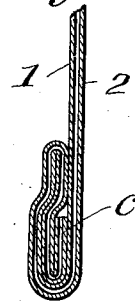


Fig. 5.



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UNITED STATES PATENT OFFICE.

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PAPER BAG.

1,027,168.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JULIA H. BARTLETT, of the city of Baltimore and State of Maryland, have invented certain Improvements in Paper Bags, of which the following is a specification.

The invention relates to a peculiar construction of the joint at the bottom of a paper bag, whereby the same is rendered air and water tight, as will hereinafter fully appear.

In the further description of the said invention which follows, reference is made to the accompanying drawing, forming a part hereof and in which:—

Figure 1 is a front or face view of the bag as it appears after the ordinary application thereto of the paste used to produce the bottom joint, and before the pasted surface is turned up at *v—v* and folded upon the surface of the bag above it. Fig. 2 illustrates a similar view of the lower end of the bag, after the usual fold has been made, and after the outer surface of a portion of the upturned flap has been provided with a coating of paste to prepare the bag for a second folding in accordance with the present invention. Fig. 3 shows the bag after the second fold has been made, and the bottom of the bag completed. Fig. 4 is an enlarged section taken on the broken line *x—x* in Fig. 2 showing the ordinary fold; and Fig. 5 is an enlarged section taken on the broken line *y—y* in Fig. 3 illustrating the improved fold.

Referring now to Fig. 1 of the drawing it will be seen that the upper side 1 of the bag, which in the present case is the side having the longitudinal seam *a*, is made shorter than the lower side 2, except at the lateral edges where for a limited width, the two sides have a common length, thus producing the ears 3.

The construction as described is commonly in use, and its object is to admit of the exposure of a narrow strip of the inner surface of the lower side 2 of the bag to which paste can be applied, and at the same time prevent as far as is possible, openings being left at the corners *b, b* when the bag is folded as shown in Fig. 2. It will how-

ever be seen that in applying paste to the bag as shown by the stippled surface in Fig. 1 and which surface is generally produced by means of a roller or brush, there will be no paste under the ears 3 (see the lower right-hand corner in that figure) and when the ordinary fold is made, the ears are pasted to the outer surface of the upper side 1 of the bag, but not to the inner surface of the upturned flap; and in consequence, there is produced an open channel *c* which leads from the interior of the bag to the outer air, as shown in Fig. 4, through which liquid contents of the bag can escape.

The object of the present invention is to seal the channel *c* and thereby render the bag completely water tight at the lower corners, and it consists as follows: After the joint as shown in section in Fig. 4 and which exhibits the open channel *c*, is completed, paste is applied to the outer surface of the upturned flap, and the end of the bag on the broken line *z—z* in Fig. 2 which is below the ends of the ears 3 bent upward and pressed closely in contact with the outside of the bag above, as shown in Figs. 3 and 5, which serves to close the channel *c* and prevent leakage at the lower corners of the bag, which would not be the case should the fold be made above the edge of the first flap.

I claim as my invention:

In a paper bag in a flat condition, and its outer side having the ears 3 formed as described, the method of producing a watertight bottom in the bag, which consists in applying to the lower end of the bag and over the ears thereof, a strip of paste of such width as to extend above the ears, then folding the pasted portion upon the surface of the bag above it, then applying paste to the outer surface of the upturned flap and folding the bag on a line which is below the upper edge of the first flap, and then pressing the second flap closely in contact with the surface of the bag above it.

JULIA H. BARTLETT.

Witnesses:

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