

1,015,007.

Patented Jan. 16, 1912.

2 SHEETS—SHEET 1.

Fig. 1.

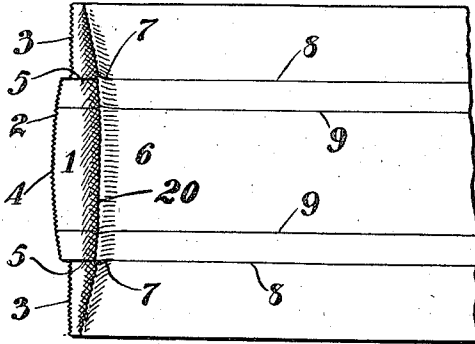


Fig. 2.

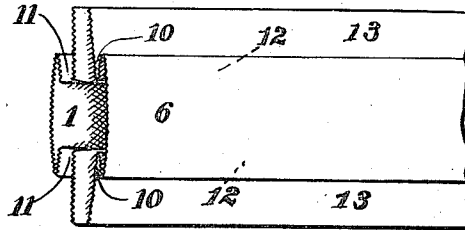


Fig. 3.

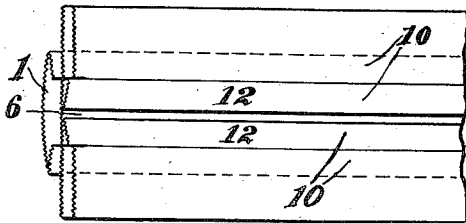


Fig. 4.

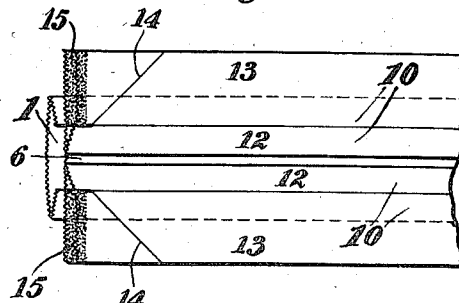


Fig. 5.

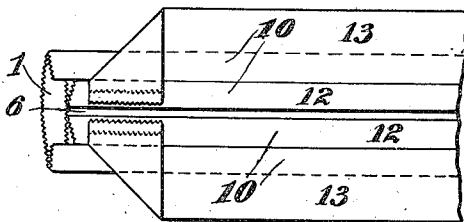


Fig. 6.

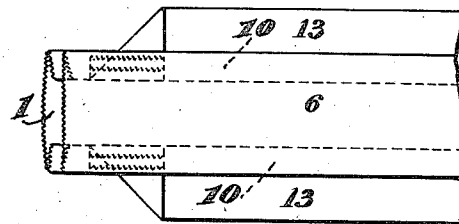


Fig. 7.

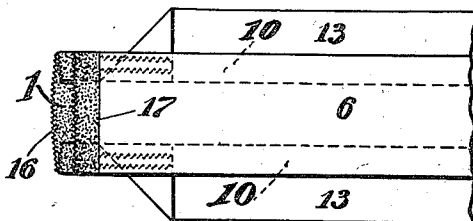
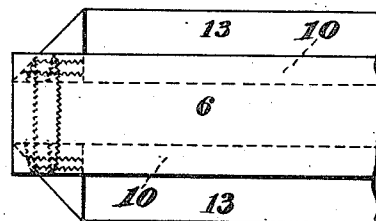


Fig. 8.



Witnesses:

Louis B. Fiechler  
Chas. W. La Rue

Inventor:

David Cutler  
by Wilbur M. Stone  
his Attorney

D. CUTLER.

PAPER BAG.

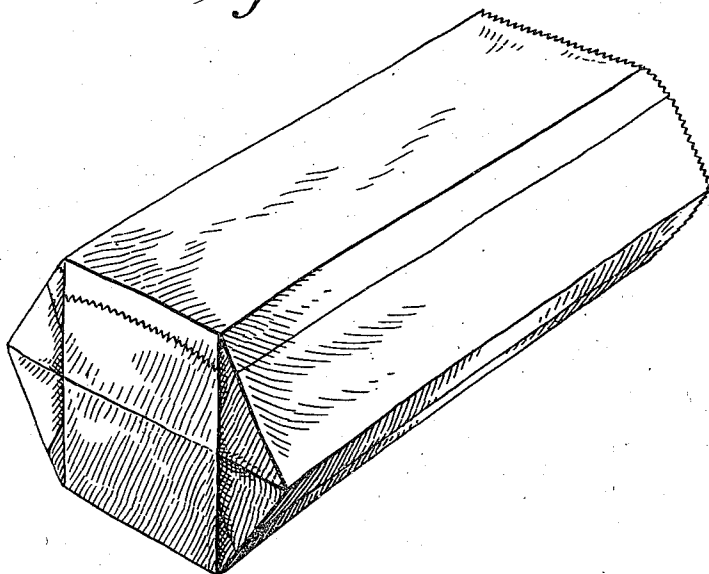
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2 SHEETS—SHEET 2.

*Fig. 9.*



*Witnesses:*

*Louis B. Fischer*  
*Chas. W. La Rue*

*Inventor:*

*David Cutler*  
*by Wilbur M. Stone*  
*his Attorney.*

# UNITED STATES PATENT OFFICE.

DAVID CUTLER, OF RUMFORD, MAINE.

## PAPER BAG.

1,015,007.

Specification of Letters Patent.

Patented Jan. 16, 1912.

Application filed October 28, 1911. Serial No. 657,284.

*To all whom it may concern:*

Be it known that I, DAVID CUTLER, a citizen of the United States, and a resident of Rumford, in the county of Oxford and State of Maine, have invented certain new and useful Improvements in Paper Bags, of which the following is a specification.

This invention relates to paper-bags and has for its object to provide a self opening paper bag of novel construction and having when opened a flat six sided or hexagonal bottom and having six sides normal thereto.

With these objects in view my improved bag comprises features illustrated in their preferred form in the drawing accompanying this specification, wherein—

Figures 1 to 8 inclusive are plan views illustrating the several successive steps in the making of a paper bag in accordance with my invention. Fig. 9 is a perspective view showing my improved bag opened.

Fig. 1 shows a portion of flat paper tube in which the forward end has its lower ply 2 projecting beyond the upper ply 20 thereof and in which the mid-portion 1 of that lower ply, projects beyond the side portions 3, 3 thereof, also said mid-portion is preferably rounded outwardly at 4. Said lower ply is provided with short slits 5, 5 lengthwise at the end of said blank dividing mid-portion 2 from side portions 3, 3. Upper ply 20 is provided with slits 7, 7 parallel with and directly over slits 5, 5 respectively and terminating at the same transverse plane therewith. Said slits 5, 5 and 7, 7 are located transverse the bag blank in coincidence with outer lengthwise creases 8, 8 respectively. Said creases are parallel with each other, with the longitudinal edges of the blank and with inner creases 9, 9. Said creases 8, 8 and 9, 9 are formed in both lower and upper plies and are spaced transversely the blank suitably to act as guide lines on which to fold two opposite pairs of inwardly folded tucks 10, 10 as to upper ply 20 and 11, 11 as to lower ply 2. Said folded tucks are shown in Fig. 2. The folding of said tucks results in the formation of a pair of outwardly extending oppositely disposed side plaits 13, 13 between body mid-portions 1 and 6. Upper portions 12, 12 of tucks 10, 10 are then folded over inwardly onto the

mid-portion of upper ply 6 of the tube, Fig. 3. Side plaits 13, 13 are then creased diagonally at 14, 14 outwardly and rearwardly from the bottoms of slits 7, 7 respectively, and paste 15, 15 is applied to their leading ends on both upper and lower plies, Fig. 4, those plies having been previously cut so that the lower project beyond the upper as clearly illustrated. Said leading ends of side plaits 13, 13 are then folded upwardly on creased lines 14, 14 and over onto the upturned inner faces of tuck upper portions 12, 12 respectively, Fig. 5. Said tuck upper portions 12, 12 are thereupon folded back to their former positions respectively, of Fig. 2 as shown in Fig. 6.

The forward ends of mid-portions 1 and 6 are then supplied with paste and crease 17 formed thereacross Fig. 7. Said pasted portion is then folded upwardly and backwardly onto upper ply 6, Fig. 8, thus completing the bag. When the bag is opened for the reception of any desired contents it will assume the form illustrated in Fig. 9 having a hexagonal or six sided bottom and six sides having their joining edges in parallelism and normal to said bottom.

I claim:—

1. A paper bag including in combination, a tubular body having an upper and a lower longitudinal mid-portion, a pair of outwardly extending oppositely disposed side plaits between said body mid-portions and joined to said upper body mid-portion by a pair of inwardly folded tucks respectively and to said lower body mid-portion by another pair of inwardly folded tucks respectively, the forward ends of said opposite side plaits being folded over diagonally into and joined to the members respectively of one pair of said inwardly folded tucks and means for closing the bottom.

2. A paper bag including in combination, a tubular body having an upper and a lower longitudinal mid-portion, one of which is longer than the other, a pair of outwardly extending oppositely disposed side plaits between said body mid-portions and joined to said upper body mid-portion by a pair of inwardly folded tucks respectively and to said lower body mid-portion by another pair of inwardly folded tucks respectively,

the forward ends of said opposite side plaits being folded over diagonally into and joined to the members respectively of one pair of said inwardly folded tucks and said longer mid-portion being folded over onto and joined to said shorter mid-portion.  
Signed at Rumford, Maine, this 25th day

of October, 1911, before two subscribing witnesses.

DAVID CUTLER.

Witnesses:

CHARLES E. GAREELEN,  
EDWARD B. SWIRMNER.