W. W. & C. G. McCLAY.

CARTON.

APPLICATION FILED JULY 17, 1916.

1,235,824.

Patented Aug. 7, 1917.

2 SHEETS—SHEET 1.

Fig. 1.

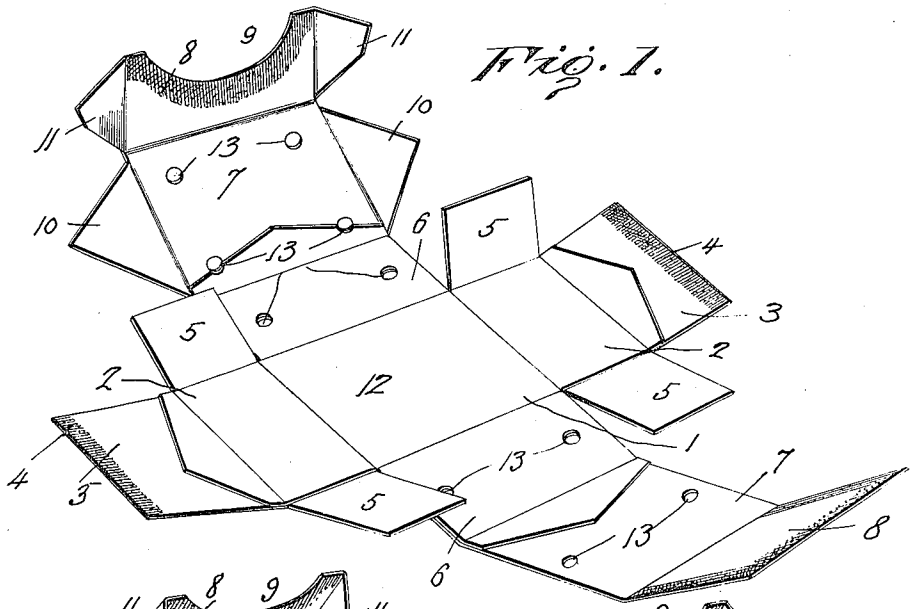


Fig. 2.

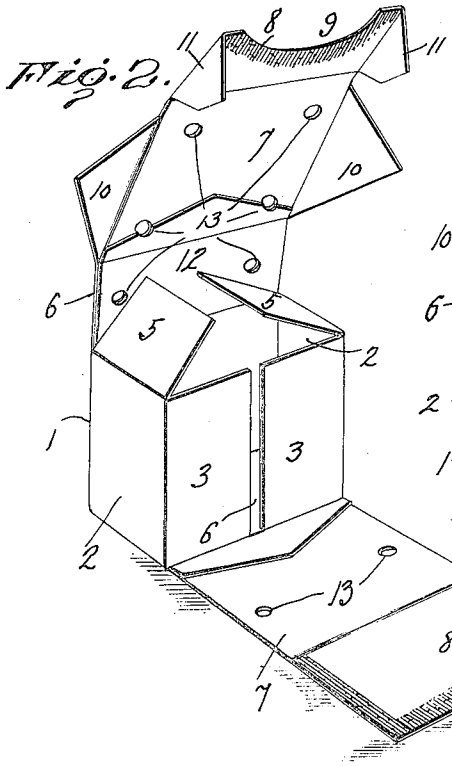
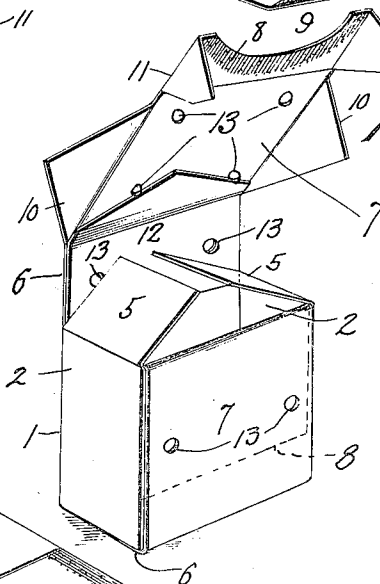


Fig. 3.



Inventors

W. W. McClay

C. G. McClay.

By Milo B. Stevens & Co.

Attorneys

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2 SHEETS—SHEET 2.

Fig. 4.

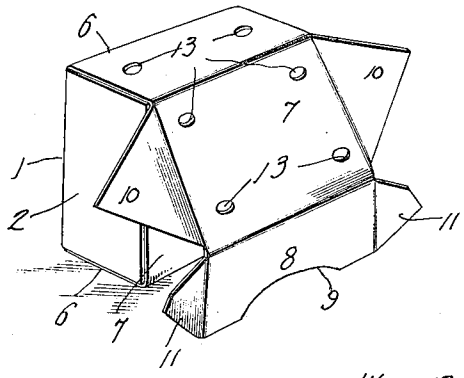


Fig. 7.

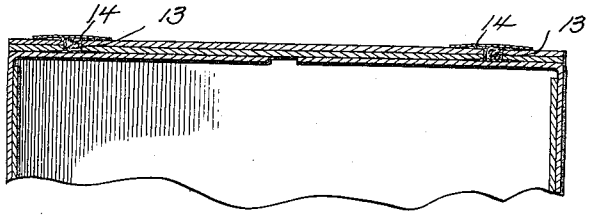


Fig. 5.

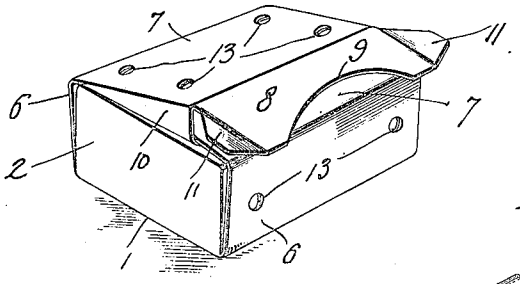
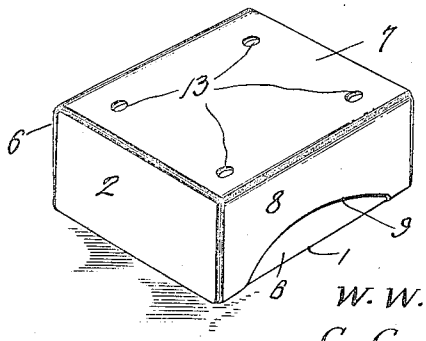


Fig. 6.



Inventors

W. W. McClay

C. G. McClay.

By Miller & Thomas & Co.

Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM W. McCLAY AND CLARENCE G. McCLAY, OF CHICAGO, ILLINOIS.

CARTON.

1,235,824. Specification of Letters Patent. Patented Aug. 7, 1917.

Application filed July 17, 1916. Serial No. 109,823.

To all whom it may concern:

Be it known that we, WILLIAM W. McCLAY and CLARENCE G. McCLAY, citizens of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Cartons, of which the following is a specification.

This invention relates to blanks adapted to be folded into the form of carton boxes and it consists in the novel features hereinafter described and claimed.

An object of the invention is to provide a blank of simple pattern or design which may be readily formed or folded into box shape, and when so folded forms a receptacle of strong and durable structure, and one which may be used to advantage for containing articles or merchandise while in transit by post or express.

A further object of the invention is to provide in combination with a blank of the character stated a reinforcing blank or sheet which is applied to the intermediate portion of the primary blank and which serves as a reinforcing lining for the walls of the receptacle when the primary blank is formed up.

Other objects and advantages of the particular form of blank will be manifest as the description thereof progresses.

In the accompanying drawings:

Figure 1 is a perspective view of the blank;

Fig. 2 is a similar view illustrating the first step of folding the blank to form a receptacle;

Fig. 3 is a similar view illustrating the second step;

Fig. 4 is a similar view illustrating the next step;

Fig. 5 is a similar view illustrating the next step;

Fig. 6 is a perspective view of the completed and closed box or receptacle, and

Fig. 7 is a detailed sectional view of a portion of the box or receptacle showing an adhesive applied thereto.

As illustrated in the accompanying drawing the primary blank is scored or creased to provide an intermediate section 1, with end sections 2 joined thereto. The said end sections are provided with end flaps 3 which in turn are provided at their free edges with gum or mucilage 4. The said end sections are further provided with side tongues 5.

The blank is also provided with side sections 6, which are joined with the intermediate section 1. Wall sections 7 are joined with the free edges of the sections 6 and flaps 8 are joined with the free edges of the sections 7. One of the flaps 8 is provided at its free edge with a recess 9, and the free edge portions of both of the flaps 8 are provided with gum or mucilage similar to that shown at 4 on the flaps 3 hereinbefore described.

One of the sections 7 is provided at its ends with tongues 10 and the adjacent flap 8 is provided at its ends with tongues 11.

An additional or reinforcing blank 12 is applied to the sections 1, 2 and 6 and has extremities which extend over portions of the flaps 3 and walls 7 as best shown in Fig. 1 of the drawing. The sections 6 and the walls 7 are provided with apertures 13 which may receive an adhesive substance as shown in Fig. 7, when the blank is formed into a receptacle whereby the overlapping and adjacent portions of the blank are secured together. When such adhesive is used disks or pasters 14 may be placed over the outer or exposed surfaces of the said adhesive thus preventing the same from coming in contact with adjacent objects or the hands while the receptacle is being handled.

The blank is formed into a receptacle in the following manner: Assuming that the blank is in the position as shown in Fig. 1, the section 1 is bent up to a vertical position and the sections 2 are bent around over the lowermost section 6 as shown in Fig. 2. The lower wall section 7 is then bent up against the outer surfaces of the flaps 3 and the flap 8 carried by the said section 7 is bent over the upper edges of the flaps 3 and extended down along the inner surfaces thereof. The adhesives carried by the flaps 8 and 3 may be moistened whereby the said flaps will be caused to stick or adhere to each other. The parts are now in the positions as shown in Fig. 3, and they assume an open or unsealed receptacle. The said receptacle can at this time be filled with the articles that it is intended to carry and inclose.

After the body of the receptacle is filled the upper tongues 5 are folded down over the contents and the upper section 6 is bent down over the said upper tongues 5 so that the parts assume the positions shown in Fig. 4. The tongues 10 on the outer wall section 7 are then inserted around the edges of the

inner wall section 7 and between the inner section 7 and the flaps 3. Finally the tongues 11 are passed around the edges of the adjacent side section 6 and between the said section and the tongues 5 and thus the body of the receptacle is formed and closed and the parts are in the relative positions as shown in Fig. 6.

After the box or receptacle is formed as hereinbefore described the blank 12 serves as a reinforcing lining for the body of the box and materially strengthens the structure and additionally protects the contents.

From the foregoing description taken in conjunction with the accompanying drawings it will be seen that a carton blank of simple pattern is provided and that the same may be quickly formed into a box, filled and sealed. Furthermore the receptacle may be conveniently and economically used for the transportation of small quantities of frail or comparatively perishable commodities by parcel post or express.

We claim:

1. A carton comprising a blank having an intermediate section and end sections, said end sections being provided with end flaps and side tongues, side sections joined with the intermediate section, wall sections joined with the side sections, one of the said wall sections having tongues located at its ends, and flaps joined with the said wall sections, one of the last mentioned flaps having tongues located at its ends.

2. A carton comprising a blank having an intermediate section and end sections, said end sections being provided with end flaps and side tongues, side sections joined with the intermediate section, wall sections joined with the side sections, one of the said wall sections having tongues located at its ends, flaps joined with the said wall sections, one of the last mentioned flaps having tongues located at its ends, and a reinforcing blank applied to the intermediate, end and side sections.

3. A carton comprising a blank having an intermediate section and end sections, said end sections being provided with end flaps and side tongues, side sections joined with the intermediate section, wall sections joined with the side sections, one of the said wall sections having tongues located at its ends, and flaps joined with the said wall sections, one of the last mentioned flaps having tongues located at its ends, the side and wall sections having apertures for the reception of an adhesive.

4. A carton comprising a blank having an intermediate section and end sections, said end sections being provided with end flaps and side tongues, side sections joined with the intermediate section, wall sections joined with the side sections, one of the said wall sections having tongues located at its ends, flaps joined with the said wall sections, one of the last mentioned flaps having tongues located at its ends, the side and wall sections having apertures for the reception of adhesive, and a reinforcing blank applied to the intermediate, end and side sections.

In testimony whereof we affix our signatures.

WILLIAM W. McCLAY.
CLARENCE G. McCLAY.