O. H. DAVIS.

CARDBOARD BOX.

APPLICATION FILED MAY 26, 1908.

901,695. Patented Oct. 20, 1908.

Fig. 1.

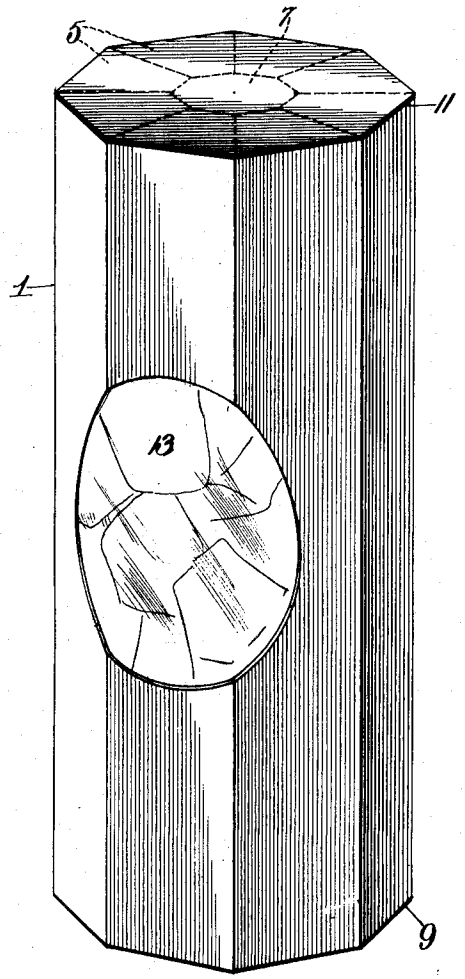


Fig. 2.

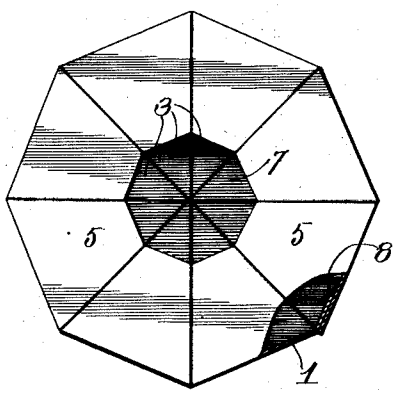


Fig. 3.

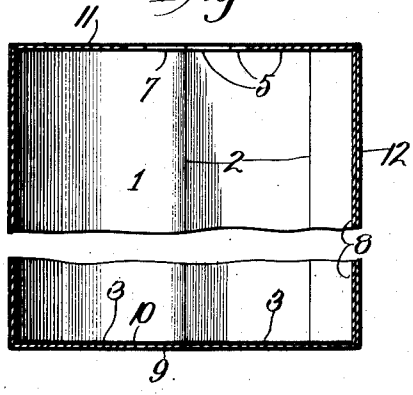
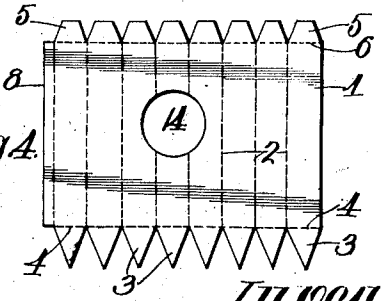


Fig. 4.



Witnesses
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O. H. Davis
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UNITED STATES PATENT OFFICE.

OSCAR H. DAVIS, OF KANSAS CITY, MISSOURI, ASSIGNOR TO DAVIS BROS., OF KANSAS CITY, MISSOURI, A COPARTNERSHIP.

CARDBOARD BOX.

No. 901,695. Specification of Letters Patent. Patented Oct. 20, 1908.

Application filed May 26, 1908. Serial No. 435,134.

To all whom it may concern:

Be it known that I, OSCAR H. DAVIS, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Cardboard Boxes, of which the following is a specification.

This invention relates to cardboard boxes and more especially to boxes of angular form in cross section, and my object is to produce a box of this character embodying a body, and end-portions formed from a single piece of cardboard or equivalent material, in which the use of flaps or overlapping portions at the ends is avoided.

A further object is to produce a blank which can be easily and quickly folded by an unskilled person to the form of a box.

A still further object is to produce a box having seals attached to and covering its end-portions to prevent the opening or unfolding movement thereof; the upper end-portion being formed with an opening accessible by the breaking of the corresponding seal.

To these ends the invention consists in certain novel and peculiar features of construction and organization as hereinafter described and claimed; and in order that it may be fully understood reference is to be had to the accompanying drawing, in which—

Figure 1, is a perspective view of an octagonal box embodying my invention. Fig. 2, is a top plan view of the frame of the box, with the upper end broken away to expose the method of connecting the ends of the blank. Fig. 3, is a vertical section of the box with the seals at the upper and lower ends of the latter, and with the body equipped with a wrapper. Fig. 4, is a face view of the blank from which the box embodying my invention is formed.

In the said drawing, 1 indicates a cardboard or equivalent blank, scored as at 2, parallel with its ends, the blank shown being scored to divide it into eight similar sections. The lower end of the blank is serrated to provide V-shaped ends 3 for each of said sections, the V-shaped portions being in length equal to half the diameter of the box to be formed, and the converging edges of said V-shaped portions extend at such an angle that when said portions are bent at right angles to their sections on the score lines 4, and the blank is bent on its scored lines until its ends meet, the said converging edges will radiate from the longitudinal center of the box and will abut together so as to constitute in effect a solid bottom for the box as shown in Fig. 2. Each section is also provided with a truncated V-shaped projection 5, which projections correspond in all respects except in being truncated, to projections 3 and like the latter are scored at their bending lines, at 6, so that when the box is formed as hereinbefore explained, the edges of portions 5 shall likewise engage each other and radiate from the longitudinal center of the box, as also shown in Fig. 2, it being further noticed that by truncating the ends of projections 5 an opening 7 is provided in the top of the box.

As a means for securely fastening the ends of the blank together, one of said ends is provided with an extension or flap 8, to be folded within and pasted to the opposite end by adhesive material or in any other suitable manner. The box thus formed will be as many sided as there are sections produced by scorings 2, and obviously may be rectangular, triangular, octagonal, or other form in cross section, in fact by a sufficient number of scorings, a substantially cylindrical box can be produced.

9 indicates a seal for the bottom of the box, this seal being secured by adhesive material by preference to the underside of the bottom or end formed by portions 3, and in view of the fact that said portions fit endwise together, the seal may be for most purposes of thin flexible paper or its equivalent, it being obvious of course that the bottom may be reinforced internally as shown by the additional bottom-piece 10 fitting snugly upon portions 3.

11 indicates a seal similar to seal 9 but secured to the upper end of the box and bridging the opening 7 therein so that when access to the box is desired, the operator can puncture the seal 11 and then easily swing portions 5 upward and outward.

12 indicates a wrapper around the body portion of the box to contain any desired printed matter and also to provide an attractive finish for the box which wrapper if desired may be equipped with a transparent portion 13 covering a hole 14 through which the contents of the box may be observed, it being understood that no claim is made to

equipping the box with an opening 14 and its covering.

From the above description it will be apparent that I have produced a cardboard box possessing the features of advantage enumerated as desirable and I wish it to be understood that I do not desire to be restricted to the exact details of construction shown and described as obvious modifications will suggest themselves to one skilled in the art.

Having thus described the invention what I claim as new and desire to secure by Letters Patent, is:—

1. A box comprising a body portion and two end-portions, each end-portion consisting of a series of angular portions folded inwardly and having their side edges abutting squarely against each other so as to conjointly form a stiffening flange, the angular portions at one end being truncated to form a central opening.

2. A box, comprising a body portion and two end-portions, each end-portion consisting of a series of angular portions folded inwardly and having their side edges abutting squarely against each other so as to conjointly form a stiffening flange, the angular portions at one end being truncated to form a central opening, and seals secured to said end-portions and holding them in their folded positions with their edges abutting together, the seal at the end provided with the opening bridging and closing said opening.

3. A blank for forming boxes and provided with a plurality of scores parallel with its ends and dividing it into a series of similar sections, and terminating at one end in a flap or extension to lap the opposite end when the box is formed, angular portions projecting from the lower ends of said sections, and truncated angular portions projecting from the upper ends of said sections.

In testimony whereof I affix my signature, in the presence of two witnesses.

OSCAR H. DAVIS.

Witnesses:

H. C. RODGERS,

G. Y. THORPE.