Nov. 24, 1936. C. L. CLAFF 2,062,086

PAPER BOX

Original Filed June 13, 1935

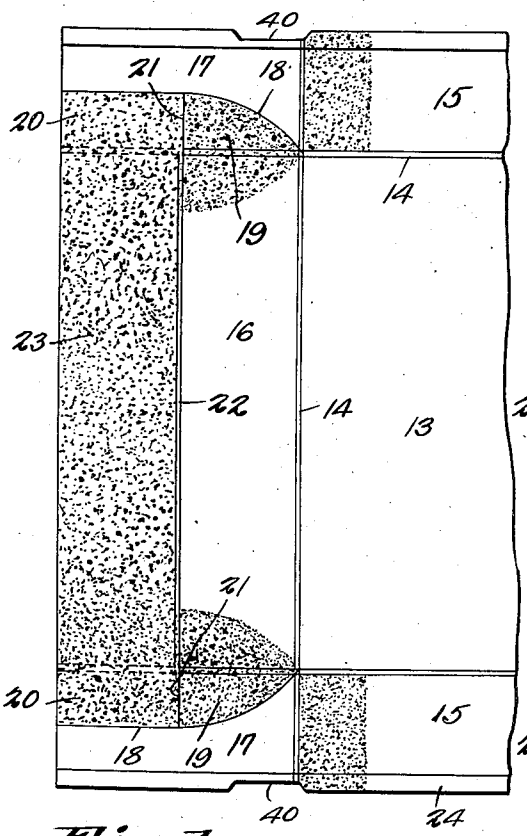


Fig. 1.

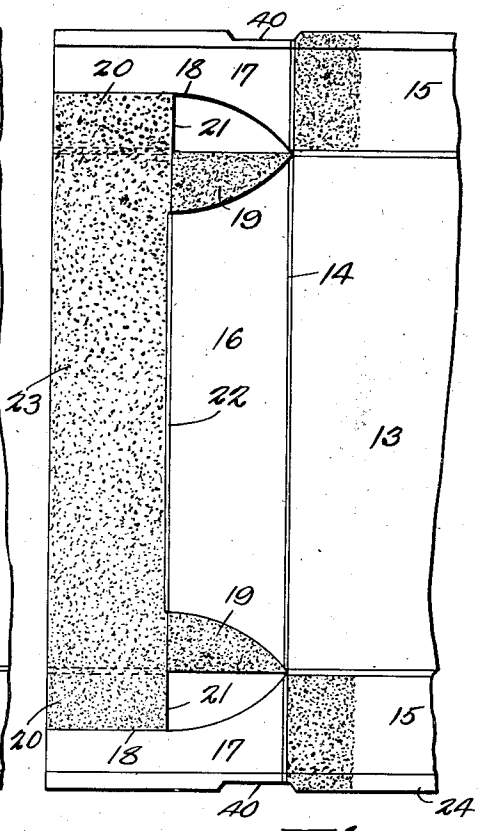


Fig. 2.

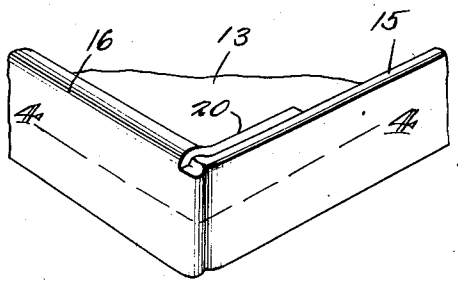


Fig. 3.

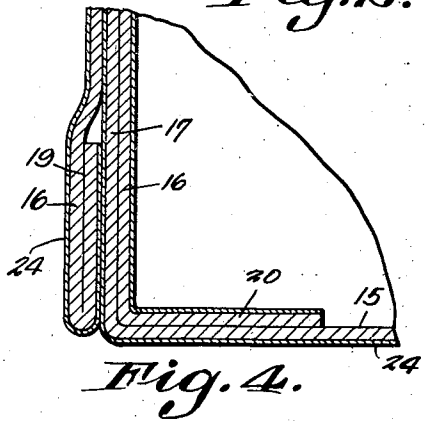


Fig. 4.

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UNITED STATES PATENT OFFICE

2,062,086

PAPER BOX

Clarence Lloyd Claff, Randolph, Mass.

Original application June 13, 1935, Serial No. 26,478. Divided and this application November 22, 1935, Serial No. 51,161

3 Claims. (Cl. 229—34)

This invention relates to paper boxes and a method of making them and is a division of an application filed by me on June 13, 1935, Serial Number 26,478.

An object of the present invention is to form a rigid box out of a foldable blank wherein the end flaps are foldable over and placed astride inturned side wings but in the present instance it is an object to so design the foldable end flaps that after they have been properly positioned during the completion of the box, well finished side edges will be presented by the outer thicknesses of the end flaps, instead of raw unsightly edges such as heretofore exposed.

A further object is to so cut the end folds of the blank that portions thereof can be utilized as reinforcements of the corners of the finished box.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts and in certain steps of the method hereinafter more fully described and pointed out in the claims, it being understood that changes may be made in the construction and arrangement of parts and in the disclosed method without departing from the spirit of the invention as claimed.

In the accompanying drawing the preferred form of the invention has been shown.

In said drawing

Figure 1 is a plan view of one end portion of a blank used in the manufacture of the box.

Figure 2 is a similar view of said end portion following the inturning of the side ears of the end flap.

Figure 3 is a perspective view of one corner portion of the completed box made from the blank illustrated in Figure 2.

Figure 4 is a horizontal section on line 4—4 Figure 3.

Referring to the figures by characters of reference, 13 is the bottom portion of a blank divided by scores 14 from side portions 15, foldable end flaps 16 and side wings 17. The side wings are divided from end flaps 16 by slits 18 which extend back into the blank from the ends thereof. These slits are so shaped and located that each side wing 17 is made up of a narrow free end portion or tongue the rear portion of the inner side edge of which is curved laterally to one corner of the bottom 13. Thus ears are formed at the sides of each end flap 16 and extend up to the wings 17, following the contour of the inner edges thereof. The ears at each side and which have been indicated at 19 and 20, are separated by a transverse slit 21 alining with the score 22 along which flap 16 is adapted to be folded. A suitable adhesive 23 is applied to one surface of the flap 16 between the score 22 and the end of the flap and this adhesive also extends over the corresponding surface of each of the ears 19 and 20.

Following the cutting and creasing of the blank the side ears 19 which constitute finishing ears for the end flaps 16 are folded toward each other so as to lap and be affixed to the end flaps as shown in Figure 2. The side portions 15 are then extended perpendicular to the bottom portion 13 and the side wings 17 are extended toward each other. Thereafter the end flaps 16 each of which appears as in Figure 2, are folded upwardly over the inturned side wings so that the finishing ears 19 as well as the side wings will thus be straddled by the end flaps. The side ears 20, however, will be permitted to extend along the inner surfaces of the side portions 15 as shown in Figures 3 and 4 where they will be joined to the side portions by the adhesive and thus constitute reinforcing ears.

As a result of the construction described not only will the side edges of the outer thicknesses of the end flaps present finished rounded surfaces formed by the finishing paper 24 on the outer surface of the blank but the ears 20 extending inwardly from the end flaps and affixed to the side portions 15 will impart added strength to the corners of the box.

It is to be understood that the term "box" as herein used has reference to either the body portion or the lid of a box because both of these parts can be constructed in the manner disclosed.

In order that the top edges of the folded end flaps may lie in the same plane with the top edges of the side walls, it is generally desirable to cut away portions of the top edges of the side wings as indicated at 40 so as to allow the end flaps and their inturned ears to be properly located.

What is claimed is:

1. A paper box formed of a blank of paper board having one surface coated with finishing paper, said blank being shaped to provide side walls, side wings, end flaps, and opposed pairs of side ears on the end flaps extending the full length of the flaps, said ears abutting, one side ear of each pair being inturned, said inturned ears being extended toward each other, and the end flaps being folded over and affixed to the side wings thereby to conceal the raw edges of the inturned ears between the folds of the end flaps, the other ears on each end flap lapping and being affixed to the side walls and extending to the top edges thereof.

2. A paper box including a blank of paper board having one surface coated with a thickness of finishing paper, said blank being shaped to provide side walls, side wings, foldable end flaps, and a pair of abutting outer and inner ears at each side of each end flap, each pair extending the entire length of the flap, said side wings being extended toward each other and said end flaps straddling and being affixed to the inturned side wings, the inner ear of each pair being extended between the folds of the end flap, thereby to conceal its raw edges, and the outer ears of the end flaps being extended away from the folded end flaps and affixed to and extending to the top edges of the adjacent side portions of the blank.

3. A paper box formed of a single blank shaped to provide bottom and side portions, side wings and foldable end flaps, there being a finishing ear and a reinforcing ear at each side of each flap, said ears abutting and forming pairs extending throughout the length of each end flap, said finishing ears being folded onto and affixed to the side portions of the end flap and said end flaps each being folded into position astride of the side wings and affixed thereto to conceal the finishing ears, and said reinforcing ears being extended away from the end flaps and affixed to the sides to stiffen the corners of the box.

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