Feb. 9, 1926. 1,572,125

L. BINDER

CARDBOARD BOX

Filed Oct. 11, 1923

Fig. 1

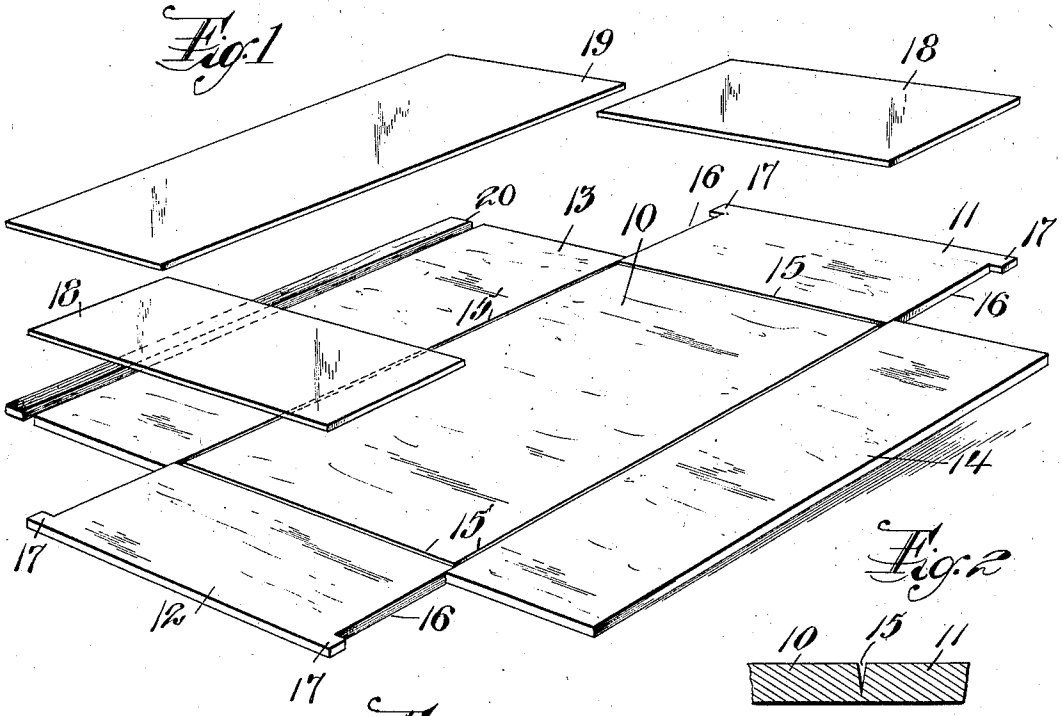
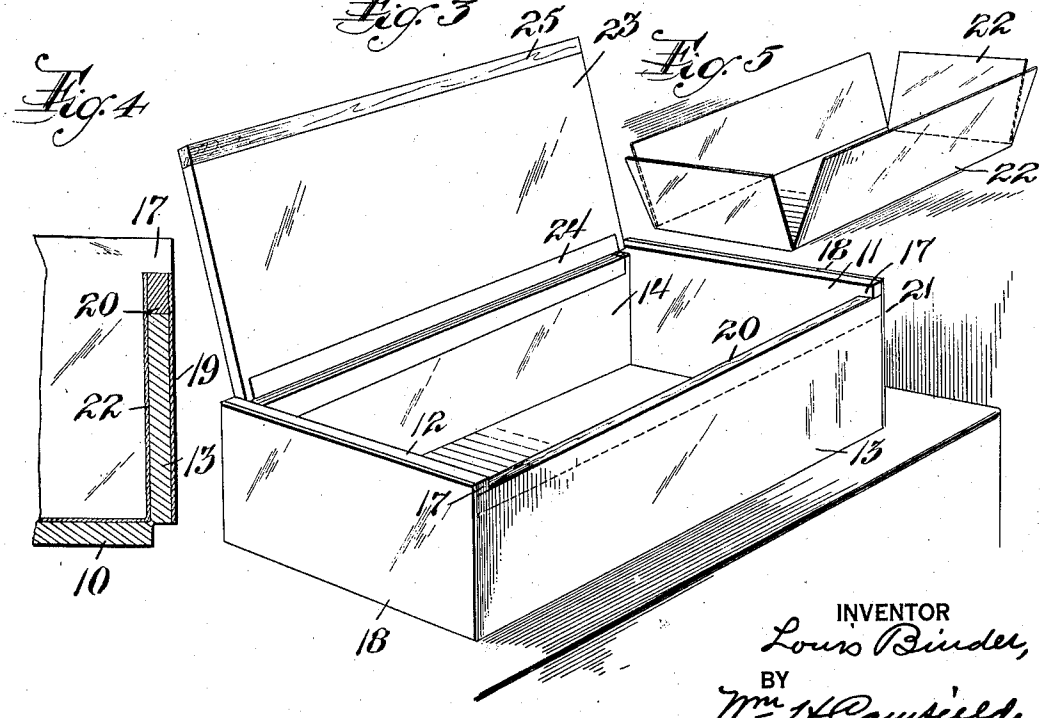


Fig. 2

Fig. 3

Fig. 4

Fig. 5



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UNITED STATES PATENT OFFICE.

LOUIS BINDER, OF NEWARK, NEW JERSEY.

CARDBOARD BOX.

Application filed October 11, 1923. Serial No. 667,854.

To all whom it may concern:

Be it known that I, LOUIS BINDER, a citizen of the United States, and a resident of Newark, county of Essex, and State of New Jersey, have invented certain new and useful Improvements in Cardboard Boxes, of which the following is a specification.

This invention relates to an improved cardboard box which is designed to be made to withstand warping and to keep its shape, being primarily designed as a cigar box which is designed to keep contents from drying out by reason of the box remaining tight all around and to withstand outward pressure so that the contents are not disturbed when the boxes are subjected to pressure as when they are packed and shipped, these boxes being adapted to withstand the weight of a stack of boxes.

The box is also adapted to confine the contents tightly so that they do not lose any strength or aroma. The invention is illustrated in the accompanying drawings in which Figure 1 is a perspective view of parts of the box blank and Figure 2 is a detail section of part of the scored or cut blank. Figure 3 is a perspective view of the box assembled. Figure 4 is a detail section of the front wall and a part of the bottom of the box and Figure 5 is a perspective view of a waxed paper lining usually in the box.

The box is made of a blank which is of cardboard and which has a grain, the grain being arranged so as to be longitudinal over two of the vertical walls of the box but this necessitates cutting so that the grain is vertical in the other vertical walls.

The grain is evident in Figure 1, the blank being cut to form the bottom 10 and walls 11 and 12 and side walls 13 and 14. The end walls are not apt to warp because the grain is longitudinal but the walls 13 and 14 are apt to warp since the grain is lateral relative to the length of these walls. The bottom is separated from the end walls and the side walls by scores or cutting 15 which extends through the major portion of the thickness for reason set forth in the construction designed and illustrated in my Patents No. 1,447,276, and No. 1,447,277.

The end walls are recessed as at 16 leaving the top projections 17 which are substantially the thickness of the lid of the box and which project so that the outer ends are substantially flushed with the front and rear outer faces of the box when the blank is folded as in Figure 4.

Sheets 18 are pasted on the end walls of the blank so as to cover the recess 16 on the outer side. A strip 19 is pasted to the front wall 13 this front wall being shorter than the other walls, the additional height being taken up by a strip of wood 20, all the parts being secured together by glue so that the top of the front wall provides a wooden strip for the setting of the nail usually employed for holding the lids of cigar boxes shut.

After these parts are pasted together, the blank is turned over and the side walls and end walls are folded up and swung upwardly so that the projections 17 rest on the ends of the walls 13 and 14. The wooden strip 20 projects under the projection 17 on the front of the box. The extension of the wooden strip 20 under the projections 17 provides a positive seating of the strip in addition to the glue used for fastening it so that when the cover is opened and the brad is withdrawn from the wooden strip 20 the latter strip is additionally secured and reinforced by the projections 17. The projecting ends 21 of the sheets 18 rest against the ends of the side walls and it will thus be evident that all of the walls are locked against inward movement and a practically air-tight corner is provided as these abutting parts are provided with glue before they are brought together.

The bottom 10, of the box can be pushed in as shown in the prior patents above mentioned.

In order to keep the goods from drying up which is especially desirable in cases of cigars, I provide a wax paper lining 21 which is cut so as to fit the blank and is pasted to the inner side which would be the bottom side of the blank shown in Figure 1. The lid 23 is hinged to the rear wall 14 by a strip of fabric 24 and fits in between the end walls and is provided with a wooden strip 25 at its free end which wooden strip engages the wooden strip 20 which insures a tight nailing of the lid to the box and the wooden strip stiffens these parts as a further insurance against warping.

In making this box, I cut the blank so that the grain is longitudinal on two of the sides preferably the ends which necessarily causes

the grain to be upright on the other two sides. I prefer to make the ends with the longitudinal grain because in cigar boxes, the main strain takes place here. The sheets 18 and the sheet 19, are arranged so that the grain in these sheets, runs parallel with that part of the box in which they are affixed.

The lining that I use is wax paper, that is one side is waxed and the other side is prepared for the application of an adhesive so that it is possible to paste it to the cardboard.

I claim:

1. A box comprising a cardboard blank having side walls and end walls the end walls being higher than the side walls and having recesses at their side edges to receive the side walls and the front side wall including a wooden strip at its top edge extending so as to be seated under the top edge of the recesses of the end walls.

2. A box comprising a cardboard blank having side walls and end walls the end walls being higher than the side walls and having recesses at their side edges to receive the side walls and the front side wall including a wooden strip at its top edge extending so as to be seated under the top edge of the recesses of the end walls and a lid hingedly secured to one side wall and fitting between the end walls and with its free end resting on the wooden strip, said cover including a wooden strip at its free end.

In testimony that I claim the foregoing, I have hereto set my hand, this 7th day of September, 1923.

LOUIS BINDER.