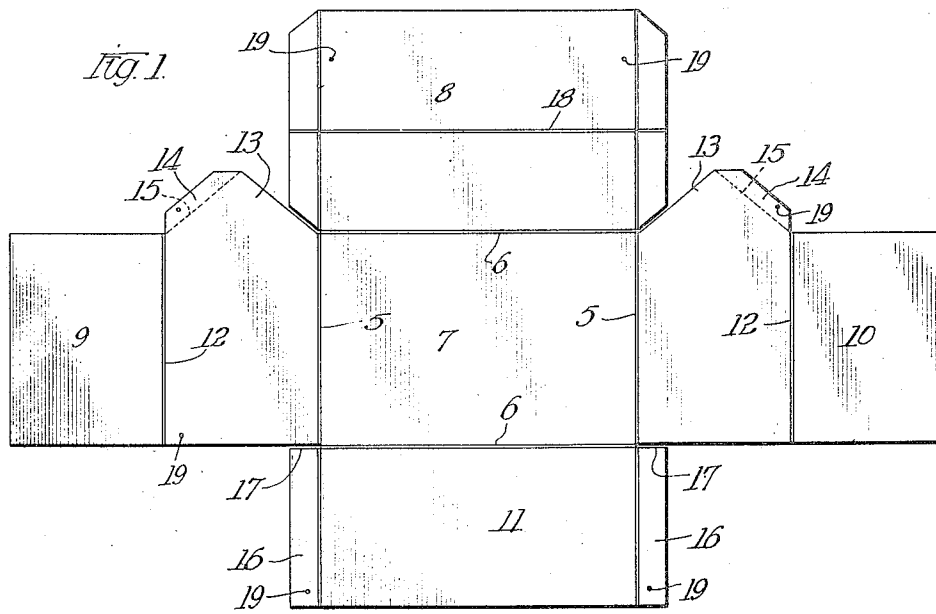
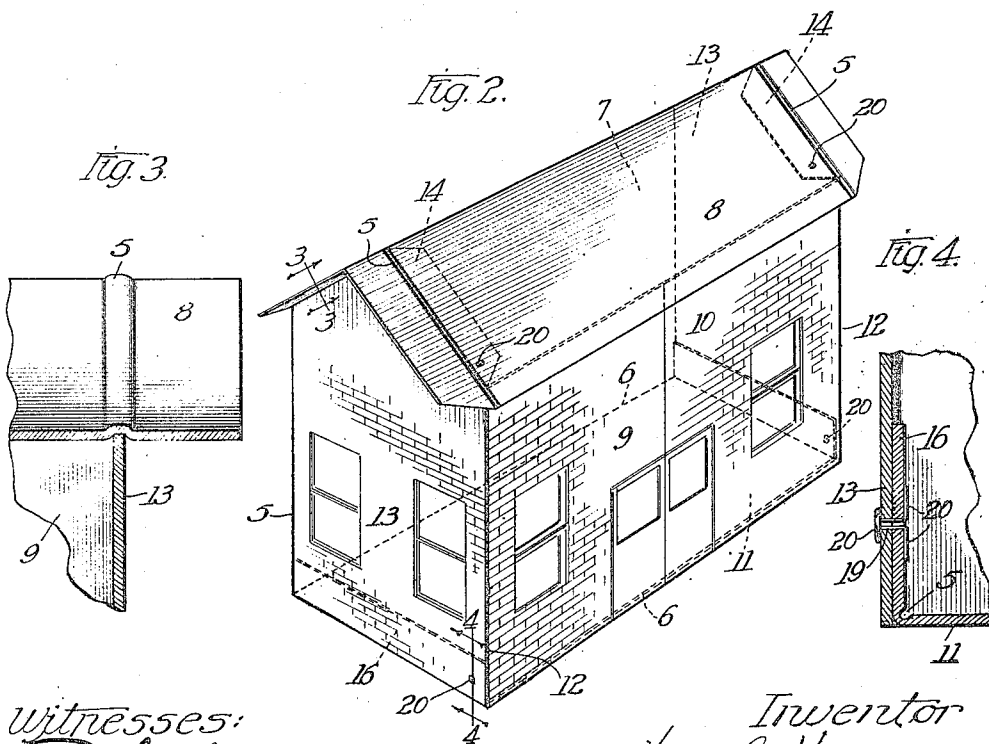


1,130,818.



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UNITED STATES PATENT OFFICE.

KARL I. HERMAN, OF CHICAGO, ILLINOIS.

CARTON-BLANK.

1,130,818.

Specification of Letters Patent.

Patented Mar. 9, 1915.

Application filed April 19, 1914. Serial No. 839,860.

To all whom it may concern:

Be it known that I, KARL I. HERMAN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Carton-Blanks, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawing, forming a part of this specification.

My invention relates to improvements in carton blanks.

It is one of the objects of my invention to provide a carton blank comprising a unitary flat sheet which may be folded into a completely inclosed gable-roofed box resembling a toy house.

Further objects of my invention are to provide a blank such that the carton may be readily and easily set up and readily and quickly taken down again to a flat sheet; to provide a blank of the sort described which can be made by standard box-making machinery; and to provide a blank economical in its manufacture and convertible into a carton practical in its use and attractive in its appearance.

Further objects and advantages of my invention will be apparent from the following specification taken in connection with the appended claims.

I have described in the following specification and illustrated in the accompanying drawing a carton blank embodying my invention, as an example, but it is to be clearly understood that changes may be made in the form, construction and arrangement without departing from the spirit of my invention or exceeding the scope of the appended claims, the form of the invention herein disclosed being merely one preferred embodiment thereof.

In the drawing: Figure 1 is a view of a carton blank constructed in accordance with my invention; Fig. 2 is a perspective showing the blank folded up into the complete carton; Fig. 3 is an enlarged detail in cross section, taken on the line 3-3 of Fig. 2, looking in the direction of the arrows; and Fig. 4 is a similar view taken on the line 4-4 of Fig. 2.

Like reference characters refer to like parts throughout the following specification and the several figures of the accompanying drawings.

Referring to the drawings, the blank here

shown comprises a single sheet, preferably of cardboard of suitable thickness, and so formed as to be foldable into a gable-roofed toy house. The blank is roughly T-shaped and the stock is given two pair of parallel creases at right angles to each other, the creases 5 of one pair being near the edges of the upright portion of the T and the other creases 6 being, except for certain projections hereinafter described, in line with the upper and lower edges of the cross piece of the T. These creases, as will be apparent from Fig. 1, divide the blank into five portions, a central rectangle 7 and four contiguous quasi-rectangular portions 8, 9, 10 and 11. The side portions 9, 10, which are identical, are substantially the same height as the central portion 7. Midway of their lengths these side portions are given a vertical crease 12 extending from top to bottom. The inner half of each side portion, i. e., that part between the creases 5 and 12 has a roughly pointed projection 13 at the top. Where this latter meets the upper portion 8 the stock is diagonally cut to the meeting points of the creases 5 and 6, making, in effect, a miter-joint. This cut gives the projection 13 the form of triangles having on their outer sides flaps 14, formed by scoring the stock as represented by the dotted lines 15 in Fig. 1.

The creases 5 form, on the lower portion 11, flaps 16 which at their juncture with the side portions 9 and 10, are slotted as shown at 17 to aid in folding. Across the upper portion 8, from end to end, is a crease 18. Above this crease, and just inside the creases 5, are formed small holes 19. Similar holes are formed in the lower ends of the flaps 14, in the lower ends of the flaps 16, and in the side portions 9 and 10 near the bottom thereof and just within the creases 12.

If desired the side portions 9 and 10 may be cut separately and later suitably secured to the central portion 7. The unitary sheet thus formed is then the equivalent in use of the single sheet above described.

In folding the blank into the toy house, the lower portion 11 serves as the floor and a 90° fold is made along the lower crease 6, the central portion 7 thus becoming the rear wall of the house. The flaps 16 are folded in the crease 5 to a perpendicular position and the end portions 9 and 10 are given a 90° fold in the creases 5 thus bringing the inner portions thereof in contact with the

flaps 16. It will be seen that the holes 19 of the flaps will coincide with the similar holes in the side portions and through them is passed a clip 20 (Fig. 4) or other suitable fastening member, thus securing the parts in place. A 90° fold is made on the creases 12 and it will be apparent that thus the inner portions of the sides of the blank become the gable ends of the house and the outer portions become the front doors. The flaps 14 are folded where scored at 15 to provide bearing surface for the roof which is formed by folding the upper portion 8 of the blank along the crease 6 and again along the crease 18, the latter becoming the ridge of the roof. No fold is made on the creases 5 above the upper crease 6 but the grooves formed by the creases 5 thereabove serve as seats for the edges of the gable ends (Fig. 3) and thus tend to retain the parts in proper alinement. The holes 19 of the upper portion 8 coincide with the holes of the flaps 14, and the roof is secured to the gable ends by fasteners 20 as before described.

The blank is given representation of bricks, doors and windows, as shown in Fig. 2, and any advertising matter to suit.

It will be seen that, by my invention, I have made it possible to fold a unitary blank into a completely inclosed gable roofed toy house. The blanks may be shipped or stored flat and are easily and quickly set up into the completed carton as there are no extra pieces to be pasted on or the like and only a few simple fasteners are used. As these fasteners are removable the carton is readily taken down and so may be kept in a flat condition when not in use. It will be apparent that there are no separate pieces of the carton to become lost, so that it is always available for use. The doors formed by the ends of the side portions 9 and 10 may be opened and closed at any time without the removal of any parts so that the carton may be readily filled or emptied when desired. The doors are held closed by the overhanging eaves formed by the upper edge of the portion 8 of the blank

and the grooves formed by the creases 5 in the roof serve not only as means for keeping the parts in position as before described but also serve to hold the doors open when desired by the engagement of the door tops therewith.

This blank may be produced by standard box-making machinery and consequently I achieve these results and advantages without sacrifice as the blanks may be manufactured with great economy.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is;—

1. A blank for cartons having a unitary, substantially T-shaped, flat sheet, having two creases extending from end to end of the upright portion near the edges thereof, two transverse creases substantially in line with the upper and lower edges of the cross piece, the portion of the blank above the upper of said creases having a transverse crease, the portions outside of said first-named creases being centrally creased, the inner section of said side portions being peaked.

2. A blank for cartons, foldable into a gable roofed house, comprising a unitary flat sheet divided into central, upper and lower and side portions by two pair of parallel and perpendicular creases, the side pieces being centrally creased and having peaked tops on the portions within said central creases, to form the gable ends when the blank is folded, one pair of said first-named creases extending downwardly to form flaps on said lower portion of the blank, and extending upwardly in said upper portion to form seats for said gable ends, thereby tending to keep the parts in proper alinement.

In witness whereof, I have hereunto subscribed my name in the presence of two witnesses.

KARL I. HERMAN.

Witnesses:

W. PERRY HAHN,
ANNE SOLOMON.