Feb. 25, 1941. F. MALLGRAF 2,232,953

PAPER-BOARD TOY HOUSE

Filed Oct. 11, 1938 3 Sheets-Sheet 1

Fig. 1.

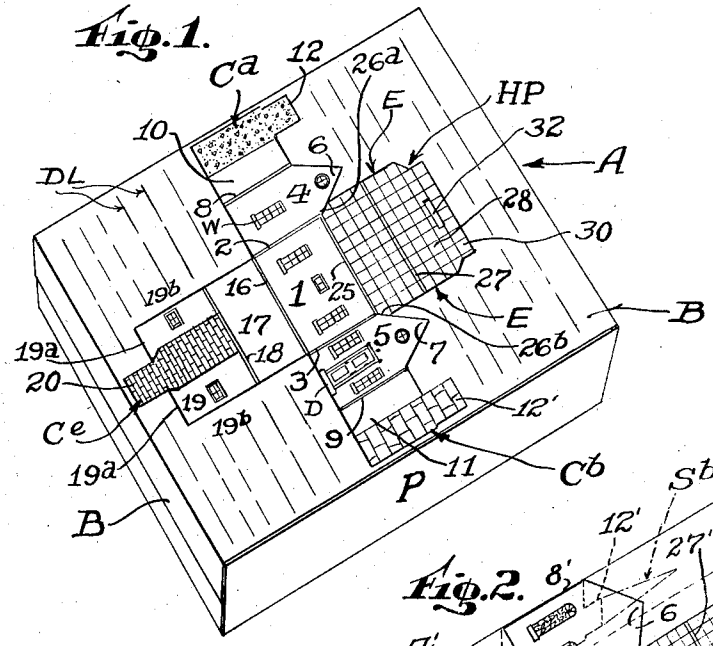


Fig. 2.

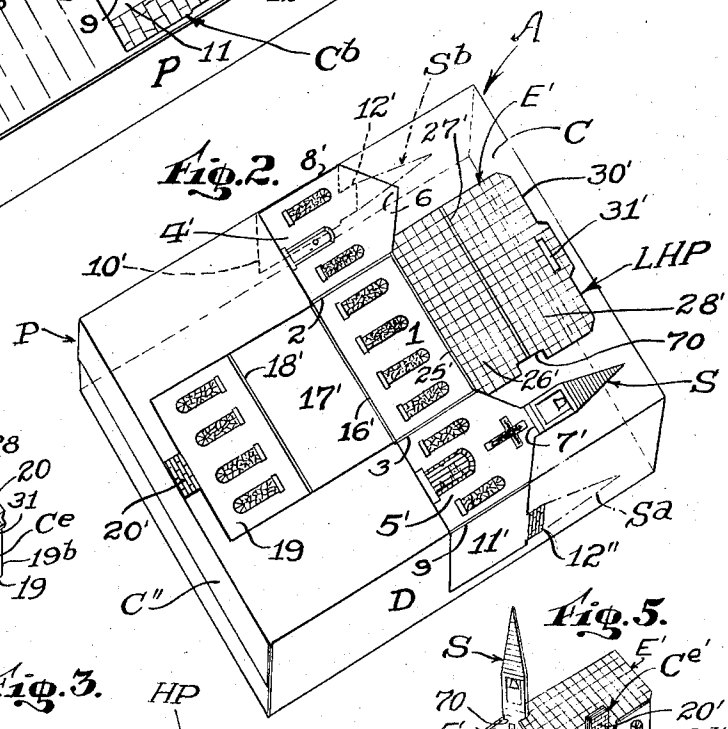


Fig. 4.

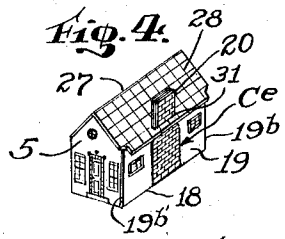


Fig. 3.

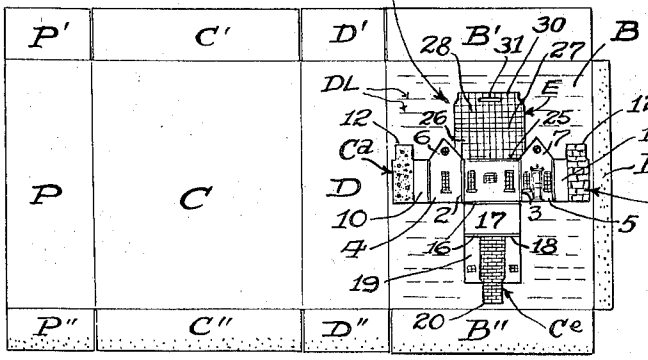
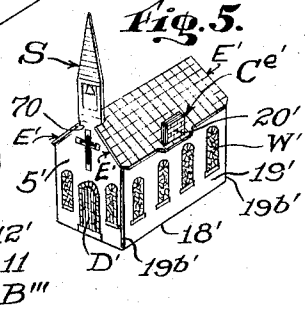


Fig. 5.



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Fig. 6.

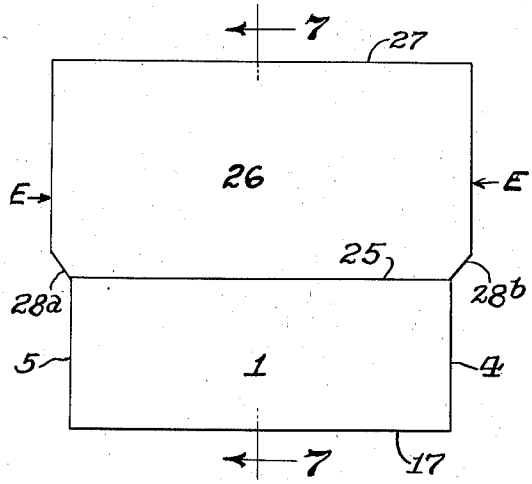


Fig. 7.

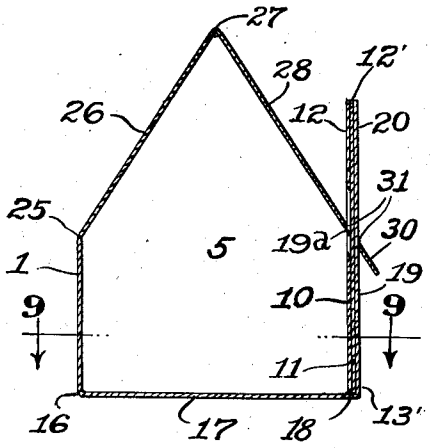


Fig. 8.

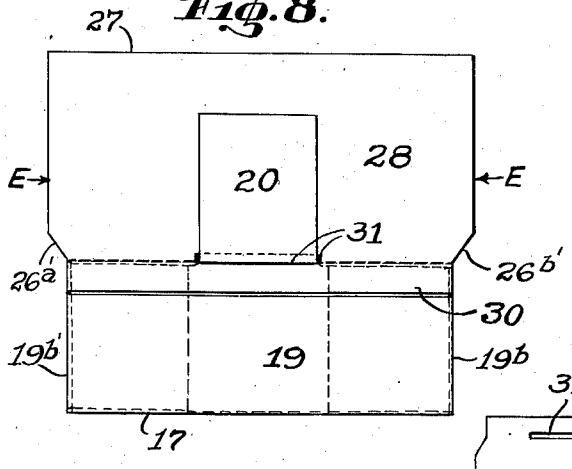


Fig. 9.

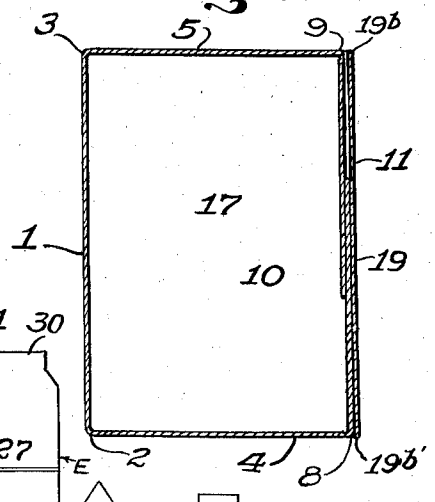


Fig. 11.

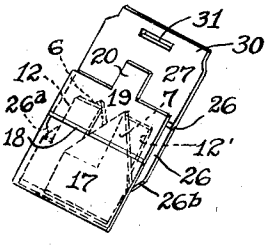
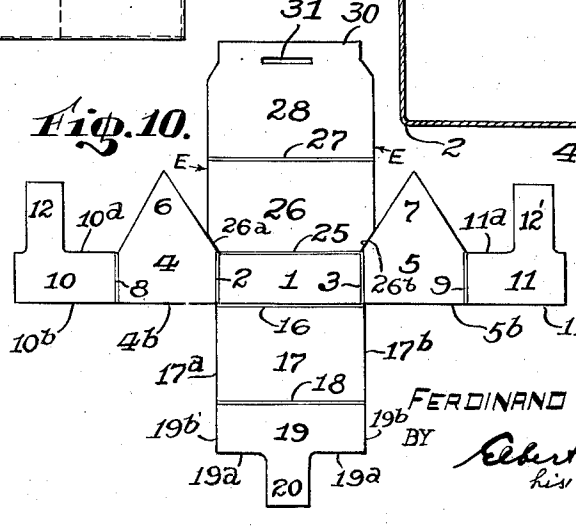


Fig. 10.



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Fig. 14.

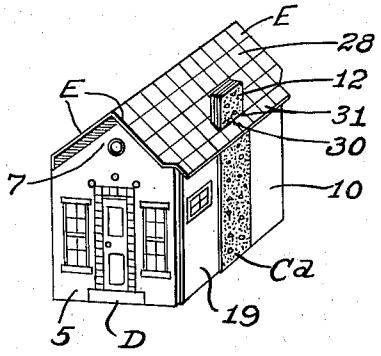


Fig. 13.

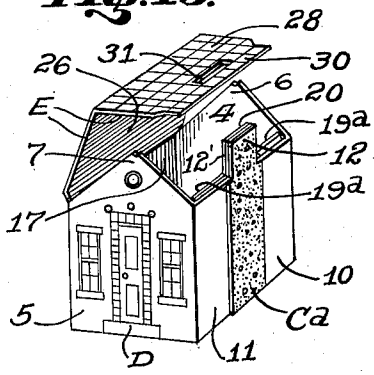


Fig. 15.

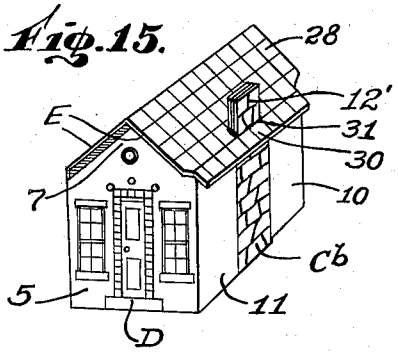


Fig. 12.

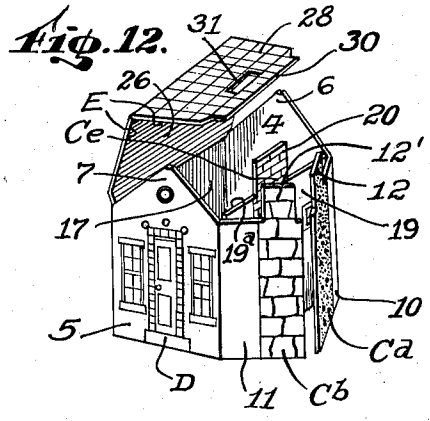
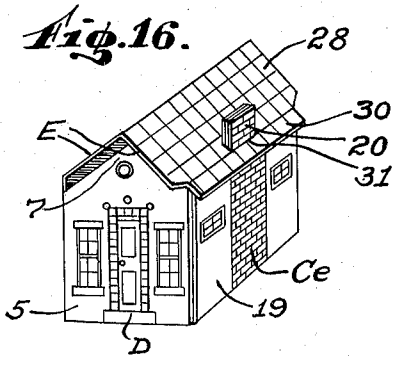


Fig. 16.



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2,232,953

UNITED STATES PATENT OFFICE

2,232,953

PAPER-BOARD TOY HOUSE

Ferdinand Mallgraf, Little Neck, Long Island, N. Y.

Application October 11, 1938, Serial No. 234,352

6 Claims. (Cl. 46—21)

This invention relates to printed blanks for collapsible paper-board houses, and the adaptability of folding the blanks into toy houses to build up a toy village, these printed blanks being cut from a larger blank that is folded into a container for food ingredients or other similar contents, or these printed blanks may be folded into a house structure from cut blank forms not forming a part of any container.

The salient feature of this invention, is the smaller printed blank upon and within the larger blank formed into a box container, in which the smaller printed blank represents in illustrative designs various types of toy houses, such as a school, a church, a town hall, a store, and so forth, whereby one may enjoy the amusement of building a toy-like village. In all of these variable house designs only one general form of blank is required, which provides similarity in the extending and set-up operations of forming the house structure, which through an interlocking arrangement of the chimney tabs firmly secures the house structure in a rigid and durable assembly. This smaller printed blank the printed color of the desired house structure forms the outline so as to provide guiding means for the cutting line to sever the smaller printed house blank from the larger panel of the blank forming the container. Instructions to form the house structure may be printed on the larger panel outside of the outline of the printed house form, this also applying to other advertising matter relating to the number of toy house designs available in the complete series, such as the premium offering provided therewith.

Another feature of this invention, is the adaptation of these printed house blanks to be produced separately in collapsible blank forms to be mailed or shipped, in which a more durable paper-board may be provided than that used for the larger blank forming the cereal containers. In these separate printed blanks the toy house designs would be sold in series in accordance with the advertising of printed forms designating each type of toy house required for the toy house village.

Another feature of this invention, is the alternative folding and overlapping of the rear panel and end flaps, each of which is provided with a different chimney design, such as for example, cement, stone or brick, all printed upon the single blank. The rear panel and end flaps with their tabs form the top portion of the chimney design and overlap in a three ply formation which are firmly secured together when the tabs are inserted into and interlocked in the keeper-slot of the roof panel.

Another feature of the invention, is the adaptable use of these toy houses to be used as a small container for candy, or any other suitable ingredients, suitable securing means for sealing may be applied to suit the purpose used therewith.

Other features of the invention will appear as the description proceeds in the following specification, accompanied by the annexed drawings, in which

Figure 1 is a view in perspective of a cereal box container with the printed house form printed on one of the larger panels thereof.

Figure 2 is a similar view of the same container with a larger printed house form folding onto the side panels thereof.

Figure 3 is a plan view of the main blank of the cereal box container on a slightly reduced scale, showing another printed house blank form arranged within the larger panel thereof.

Figure 4 is a perspective view of a toy house extended from the cut printed house blank form, shown in Figure 1.

Figure 5 is a similar perspective view of a toy house, such as a church, folded from the cut printed house blank form shown in Figure 2.

Figure 6 is a side elevation of the folded toy house shown in perspective in Figure 4, without any printed matter thereon.

Figure 7 is a cross-vertical section on line 7—7 of Figure 6.

Figure 8 is a side view of the interlocking chimney flap sections.

Figure 9 is a transverse section taken on line 9—9 of Figure 7.

Figure 10 is a plan view on a reduced scale, of the cut blank used to form the toy house shown in Figures 1, 4, 6, 7, 8 and 9.

Figure 11 is a collapsible perspective view of the same house blank shown in Figure 10, such as may be used for mailing and shipping purposes.

Figure 12 is a perspective view of the house blank folded into the toy house structure shown in Figure 4, showing the rear panel and end flaps in their partially folded and overlapping positions.

Figure 13 is a similar view as Figure 12, except the rear panel and end flaps with their tabs are shown in position for inserting into the keeper-slot of the roof panel.

Figure 14 is a similar view as Figure 12, with the rear panel and end flaps with their tabs in-

terlocked into the keeper-slot of the roof panel, showing a cement chimney design on one of the end flaps.

Figure 15 is a similar view as Figure 14, with the exception of an alternative folding operation of the end flaps to form a stone chimney design on the exterior of the house.

Figure 16 is a similar view as Figures 14 and 15, with the exception of the rear-panel being alternatively shown for a brick chimney design different than shown on the end flaps of Figures 14 and 15.

Referring to the drawings, in Figures 1 and 2, the letter A indicates a box container, such as for example, that which holds cereal ingredients, which is folded from the blank shown in Figure 3 having large panels B and C, and side panels D and P, and end flaps B' B'' B''', C' C'', D' D'', and P' P''.

On the large panel B a printed house blank form HP which is shown in heavy outlines for convenience of illustration, the house blank HP when printed adjacent to the printed matter of the box container, provides the contrasting color effect for the necessary outline onto which the cutting out operation is to be done. The printed house blank (see Figure 10) has a side panel **1** with vertical creases **2** and **3** between said panel and front and rear panels **4** and **5** having gable-apex portions **6** and **7** and vertical creases **8** and **9** between the latter panels and side flap sections **10** and **11** having tabs **12** and **12'** and shoulder portions 10^a and 11^a. The side panel **1** has a horizontal crease **16** between it and a bottom panel **17** having edges 17^a and 17^b and also a horizontal crease **18** between the panel **17** and the rear panel **19** having a tab **20** and shoulder portions 19^a—$19^{a'}$. Panels **4**, **5**, **10** and **11**, have bottom edges 4^b and 5^b that contact with edges 17^a and 17^b of the bottom panel **17** and the edges 10^b and 11^b contact the inside of the bottom crease **18**, respectively.

The side panel **1** has an upper horizontal crease **25** interconnecting to a gable roof and rafter panel **26** having also a horizontal crease **27** between it and another gable roof and rafter panel **28** having an end eave portion **30** provided with a keeper-slot **31**. These roof panels **26** and **28** have side eave portions E and slits 26^a and 26^b are cut to the junction of the crease lines **25** and **2** and **25** and **3**, respectively, so as to provide for the tabs in the folding operation of the flaps thereat.

It is to be noted that the printed house blank outline HP as shown in Figure 1 and hereinbefore fully described in detail in the blank of Figure 10, comes within the panel B of the container A, and the larger printed house blank outline LHP shown in Figure 2 extends its flap ends **10'** and **11'** over onto the sides D and P, this blank outline LHP being similar to the printed house blank outline HP of Figure 1, except in size and shape of panels and the extension of a steeple S through a keeper or cut-out **70** of one or both of the eaves E, and the tabs **12'**, and **12** and **20** form the chimney $C^{e'}$ as shown in the perspective in Figure 5 similar to the chimney C^e in Figure 4. If desired, the printed house blank form HP may be printed on the opposite side of the printed matter on the large blank of the box container, but such is not deemed practical to show the novelty of the invention.

It is to be further noted that in Figure 1, the end flap sections **10** and **11** are shown printed for either a full length cement or stone chimney C^a and C^b respectively, either of which if desired, may overlap the other on the outside of house when interlocking the tabs **12** or **12'** in the keeper-slot **31**, in place of the tab **20** and panel **19** on the outside which shows a full length brick chimney C^e, thus providing three alternative designs in one printed blank and also forming a three-fold interlocking arrangement.

It is to be further noted that a dot and dash form of steeples S^a and S^b which may be extended if so desired from the tabs **12** and **12'**, respectively, but this would provide a steeple on the side of the church which is not considered the conventional form. However, the steeple or tower may be placed to suit, and also the church as shown in Figure 5, may have a cross and a bell in tower and leaded windows illustrated in printed form therewith.

Similar parts of the original forms shown in the modifications or alternative forms are indicated by prime numerals of the original numerals. Directions for cutting the outline of the printed blank houses and for other information on the series of the total number of toy houses may be made on the dash lines DL to suit.

It is understood that I may make further improvements of any part hereinbefore described and shown in the drawings, and reserve the right to alter any shape, design and construction of my invention that may come within the scope of the appended claims.

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

1. In toy houses of the character described, the combination of a printed blank forming a part of a larger blank the latter being foldable into a container, the former blank being adapted to be cut from the latter and to represent various types of houses, said printed blank being provided with several flaps bearing different chimney designs, whereby when said printed blank is folded into a toy house, said flaps will be placed one behind the other and can be arranged so that any of them will be shown on the outside of the house.

2. In a toy house blank of the character described, comprising a printed blank forming part of a larger panel and of adjoining smaller panels of another blank foldable into a box container, said smaller blank being scored and printed to provide crease lines between panels and end flaps having tabs, to indicate and represent the outline of the front, sides, rear, gable roof and chimney of a toy house structure, said smaller blank being adapted to be cut along said outline and foldable along said crease lines to form the front, sides, rear, floor and gable roof of a toy house, said roof being provided with eaves and a keeper slot in which the tabs of said end flaps and rear panel may be interlocked in a threefold formation therethrough to firmly secure said house in its set-up position.

3. In a collapsible paper-board toy house of the character described, comprising a blank having a plurality of vertical and horizontal panels with end flaps and tabs representing different chimney designs, creases between said panels, the latter adapted to be suitably printed to represent the front, sides, rear, floor and gabled roof panels of a house structure when folded along said creases, said roof panels provided with eaves and a keeper whereby said tabs are inserted into said keeper for interlocking firmly said house structure, said tabs selectively folded whereby

any of said chimney designs may be on the outside thereof.

4. In toy houses of the character described and defined in claim 1, the combination of an extension upwardly of one of the panels to indicate a steeple, tower, and the like.

5. In toy houses of the character described, the combination of a printed blank forming a part of a larger blank the latter being foldable into a container, the former blank being adapted to be cut from the latter and to represent various types of houses, said printed blank being provided with several flaps, whereby when said printed blank is folded into a toy house, said flaps will be placed one behind the other and can be arranged so that either of them will be shown on the outside of the house structure, means to secure said flaps in their folded positions to firmly secure said house structure, said means being adapted to allow said flaps to be released from their secured folded position, whereby said house structure becomes collapsible in which said panels and end flaps are adapted to be overlapped on each other in a flat-like position.

6. In a paper-board toy-house of the character described, comprising a blank having a plurality of vertical and horizontal panels with end flaps and tabs, creased lines between said panels and end flaps, said panels and end flaps adapted to be suitably finished to represent the front, sides, rear, floor, roof and chimney portions of a house structure when said panels and end flaps are folded along said crease lines, said roof portion provided with a keeper whereby said tabs are interlocked firmly by said keeper thereby securing said house structure in a firm and rigid position by means of the rear panel and end flaps with their tabs interlocking in a threefold formation by said keeper with said tabs representing different chimneys for said house structure.

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