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DOOR FOR TOY HOUSE
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Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

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The present invention relates to toy houses, and particularly to a novel door construction which is adapted to be incorporated into a plastic toy house of the type which is presently meeting with widespread acceptance by the purchasing public.

With the advent of precision molding with plastics, an item which has met with great commercial success in recent years is the plastic toy house, which has simulated actual houses to such a great degree as to have a considerable sales appeal. While it has been possible to reproduce various building styles in almost every detail, one thing that has been lacking in these plastic toy houses is a functional door, one which can be opened and closed in the same manner as its prototype. Thus a degree of realism has been unattainable.

With the above in mind, it is the basic objective of the present invention to provide a novel door construction for plastic toy houses.

It is another object of this invention to provide a door construction for plastic toy houses which permits the door to be manipulated in much the same manner as a conventional house door.

It is a further object of this invention to provide a door construction for plastic toy houses in which the door is separately removable from the house and easily assembled therewith.

A still further object of this invention is to provide a door construction for plastic toy houses which is the epitome of simplicity, and inexpensive.

These objects, together with other objectives and advantages of the present invention, will become apparent from the following detailed description and accompanying drawings, wherein similar numerals refer to similar parts throughout the several views.

Figure 1 is a perspective view of a section of a plastic toy house in which the door construction of the present invention is incorporated.

Figure 2 is a rear elevation view of the toy house section of Fig. 1, with parts broken away, showing the main structural features of the present door construction.

Figure 3 is a horizontal cross-sectional view of the door construction, taken along the line 3—3 of Fig. 2 and with parts broken away, illustrating in detail the retaining hinge flange which is an integral part of the door frame structure.

Figure 4 is a vertical cross-sectional view of the door construction, taken along the line 4—4 of Fig. 2 and with parts broken away, showing the hinge retaining flange in elevation and illustrating the pivotal structure of the door.

Figure 5 is a rear elevation view of the toy house section of Fig. 1, with parts broken away, illustrating how the door is assembled in the doorframe.

Figure 6 is a view similar to that of Fig. 5, showing the door assembled in the doorframe, and in an open position.

Referring to the drawings, and particularly Fig. 1 thereof, a section of a plastic toy house of the type with which the present invention is concerned is therein referred to by the letter H. Functionally mounted within this house section H is the door 10 of the present invention. Looking at Fig. 2, it will be seen that the door 10 is operably mounted within a doorframe F consisting of a downwardly depending top flange 11, a bottom flange 12 and side flanges 13 and 14 which are perpendicular to the plane of the house section H, and a hinge flange 15 which is integral with the side flange 14 but lies in overlapping relationship therewith as shown in Fig. 2. It will be noted that the top flange 11 and bottom flange 12 do not extend across the entire width of the doorway, but rather stop short of the flange 14 so as to leave a gap for accommodating pivot extensions 16 and 17 on the door 10, as illustrated.

Looking now at Figs. 3 and 4, it will be seen that the door 10, in its closed position, is prevented from falling rearwardly out of the doorframe F by means of the downwardly depending top flange 11 and the hinge flange 15 which is an integral extension of the side flange 14. Similarly, the said door is prevented from falling forwardly out of the doorframe F by virtue of the pivot extensions 16 and 17 on the door 10, which extensions bear against the rearward surface of the house section H, as shown in Fig. 4.

To install the door 10 in the doorframe F, as illustrated in Figs. 5 and 6, the vertical edge of said door remote from the pivot extensions 16 and 17 is inserted through the opening in the said frame from the rearward side of the house section H at a point adjacent to the side flange 14, the door being bent or bowed sufficiently so as to clear the hinge flange 15. When the rearward edge of the door 10 has past the said hinge flange 15, the door will snap in place with the said rearward edge lying behind said flange 15, as shown in Fig. 6. At the same time, the pivot extensions 16 and 17 will have found their way into the gaps between the top flange 11, bottom flange 12, and side flange 14, and will come to bear against the wall of the house section H. Thus, assembled, the door 10 may be swung freely outwardly from the forward side of the house section H being retained within the frame F by the pivot extensions 16 and 17 and the hinge flange 15.

It is therefore seen from the above description, that a novel door construction for a toy house is provided by this invention which is the epitome of simplicity. This door, which is functional, adds to the attractiveness of toy houses of the type concerned, and can be manufactured and incorporated into the house structure at a minimum cost. And, as shown above, once the door has been installed, there is no danger of its becoming disassembled and lost due to the novel construction of the complementary doorframe elements and door pivot extensions.

Although the present discussion of this invention has been limited to the above-described preferred embodiment, variations thereof are possible without departing from the spirit of the invention. It is to be understood, therefore, that the invention is not to be limited to the particular embodiment disclosed, but rather only to the inventive concept as defined by the appended claims.

What is claimed is:
1. In a toy house, a two-piece door construction comprising: a wall having a door opening defined by top, bottom, and side flanges perpendicular to said wall integral therewith; one end of each of said top and bottom flanges being spaced from the corresponding end of one of said side flanges to provide a pair of aligned gaps; an integral extension on said top flange and an integral extension on the side flange between said gaps; the said extensions lying in said opening and spaced from said
wall; and a door having pivots received in said gaps to pivotally mount the door between said flange extensions and wall.

2. In a toy house, a two-piece door construction comprising; a wall having a door opening therein defined by top, bottom, and side flanges perpendicular to said wall and integral therewith; one end of each of said top and bottom flanges being spaced from the corresponding end of one of said side flanges to provide a pair of aligned gaps; an integral extension on said top flange and an integral extension on the side flange between said gaps; the said extensions lying in said opening and spaced from said wall; and a door having pivotal extensions received in said aligned gaps to pivotally mount the door in said opening between said flange extensions and said wall.

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