May 13, 1930. J. H. FRIER, JR 1,758,314

TOY HOUSE

Filed Sept. 27, 1928 2 Sheets-Sheet 1

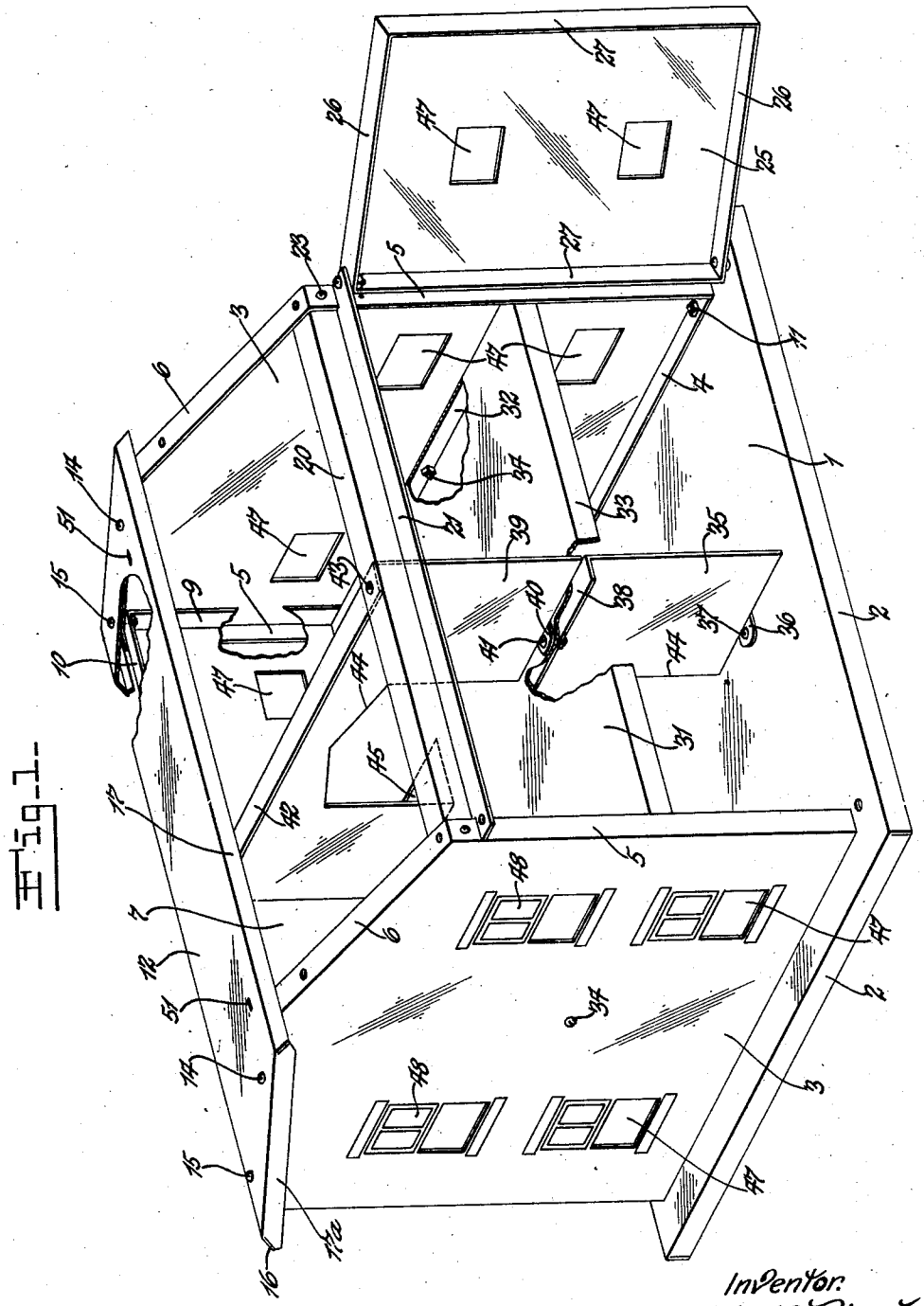


Fig. 1.

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Fig. 2.

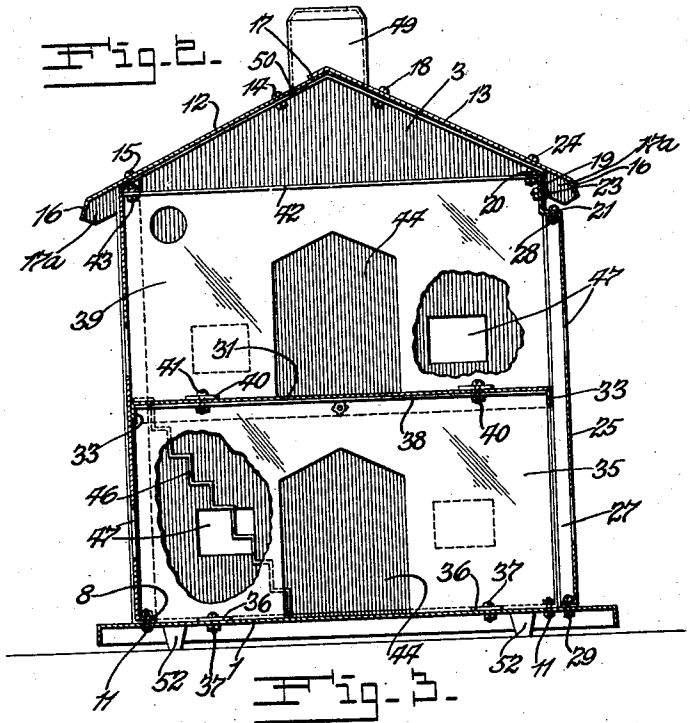


Fig. 3.

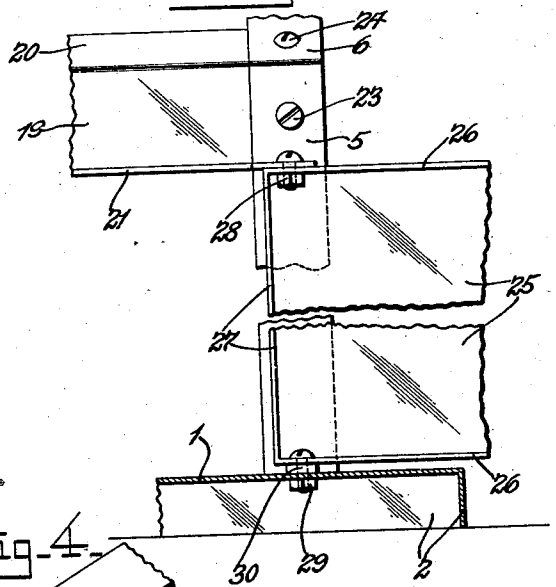
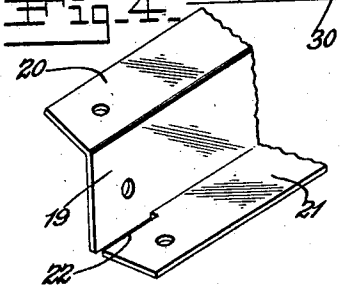


Fig. 4.



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UNITED STATES PATENT OFFICE

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TOY HOUSE

Application filed September 27, 1928. Serial No. 308,703.

This invention relates to toy houses and has special reference to houses designed for use as toys and playthings for children.

An object of the invention is to provide a toy house of strong and durable construction made up of sheets of material assembled in a manner to obtain best results and to permit the device to be applied to all of its intended uses without likelihood of injury.

Another object is to provide an improved toy house possessing all of the useful features of construction and other advantages made apparent from the following description, reference being made to the accompanying drawings in which

Fig. 1 is a perspective view of a toy house constructed in accordance with the present invention, parts being broken away and other parts removed in order to disclose features of construction.

Fig. 2 is a vertical cross sectional view of the house.

Fig. 3 is an enlarged detail view showing the manner in which the door is hinged.

Fig. 4 is a perspective view of one end of the cross member or top frame member at the front of the house.

In the embodiment of the invention shown the different walls of the house are made of sheets of material, preferably sheet metal, the bottom or floor comprising an appropriately shaped section of sheet metal 1 having its ends and front and rear edges bent downwardly to provide supporting flanges 2.

The house comprises two end walls, each made of the sheet 3 of metal bent to form an inturned flange 4 along its lower edge, inturned vertical flanges 5 at its front and rear edges and inturned flanges 6 at the top. The middle portions of the end walls 3 at the top are pointed so that the flanges 6 are inclined downwardly from the apexes of the upper ends of the end walls 3 to the side edges of said walls.

The rear wall 7 is formed from a section of sheet metal having its lower edge bent to provide an inwardly extended flange 8, each end being bent to provide an inwardly extended vertical flange 9 and its upper edge bent inwardly to provide an inwardly extended flange 10.

The rear and end walls 7 and 3 are assembled in a relationship in which the ends of the rear wall 7 abut against the inner sides of the end walls 3 and against the inner sides of the end wall flanges 5. These end and rear walls are then attached to the base by fasteners or bolts 11 passing through the floor 1 and through the flanges 4 and 8. One such fastener 11 may be passed through overlapping portions of the flanges 4 and 8 at each rear corner of the house.

The roof of the house comprises a pair of plates 12 and 13 arranged to seat upon the rearwardly and forwardly inclined flanges 6 respectively. The plate 12 near its upper edge is secured to the rear flanges 6 by fasteners 14 and near its lower edge by fasteners 15 which pass through said plate 12 and through overlapping portions of the flanges 6 and 10 of the end and rear walls, thus obtaining a rigid construction. The lower rear edge of each plate 12 and 13 is bent downwardly to form an eave 16, and their upper edges are bent to form angular flanges 17. The flange 17 of the plate 12 seats against the front flanges 6. The flange 17 of the plate 13 overlies the upper edge of the plate 12. The upper edge of the plate 13 is secured to the flanges 6 by fasteners 18. The ends of the plates 12 and 13 have down turned flanges 17a.

The upper corners of the end walls 3, at the front of the house, are rigidly conected by a metallic strip shaped to provide a vertical portion 19 that is secured against the inner sides of the front flanges 5; an upwardly and rearwardly inclined upper flange 20 that is secured against the under sides of the flanges 6 near the forward ends of said flanges; and a forwardly extended flange 21 that extends forwardly beyond the outer surfaces of the flanges 5. Slots 22 are formed at the ends of the flanges 21 to receive the flanges 5 and to permit the assembly of the parts in the manner shown and described. Fasteners 23 pass through the flanges 5 and through the part 19, and fasteners 24 pass through the lower edge of the roof plate 13, through the flanges 6 and

through the ends of the flange 20, thus rigidly connecting these parts.

One or more doors may be hinged between the base 1 and the flanges 21. One such door is shown, the same comprising a section 25 of sheet metal bent to form inwardly extended flanges 26 along its upper and lower edges and vertical flanges 27 at its side edges. This door is of such a height that it will pass under the flanges 21 and above the base. The flange 26 is pivoted to the flange 21 by pivot members 28, and the lower flange 26 is pivoted to the base by a pivot member 29, the door being supported slightly above the base by a washer 30 through which the pivot 29 passes. These parts are assembled in such a relationship as to permit the door to swing freely so as to close, and to open the door opening. Only one door is shown in Fig. 1, another door being omitted to avoid the confusion of lines.

If desired, the house may be made two or more stories in height, a second story floor being obtained by a section 31 of sheet metal having its ends bent downwardly to provide flanges 32 that abut against the inner sides of the end walls 3 and having its front and rear edges bent downwardly to provide longitudinal flanges 33, of which the flange 33 at the rear abuts against the rear wall 7. This floor may be attached to the end walls by removable fasteners 34 passing through the flanges 32 and through said walls.

A number of partitions may be provided to divide the interior of the house into a number of separate rooms. As shown, the lower part of the house is divided into rooms by a partition 35 made of a section of sheet metal having lateral extensions 36 at its lower end edge seated upon and secured to the floor 1 by fasteners 37. This partition 35 has its upper edge bent laterally to provide a flange 38 which supports the intermediate portion of the second story floor 31. The upper portion of the house is divided into rooms by a partition 39 comprising a plate of sheet metal having lateral extensions 40 near its lower edge which are secured to the floor 31 by fasteners 41 by passing through said extensions 40, through the floor 31 and through the flange 38. Thus these parts are rigidly secured together. The upper edge of the partition 39 is bent to provide a laterally extending flange 42, the rear and front ends of which bear against the under sides of the flanges 10 and 20, respectively, and being secured thereto by fasteners 43 whereby a rigid construction is obtained. These partitions 35 and 39 may be formed with arch or door openings 44.

As shown, the second floor 31 is formed with a stairway opening 45 connected with the lower floor by a stairway comprising a strip of sheet metal bent to form steps 46.

Any or all of the walls, as well as the door 25, may have window openings 47 therein and surface demarcations 48 representing window panes.

Chimneys or flues 49, comprising sections of sheet metal bent into rectangular form, may be mounted upon the roof of the house by forming said chimneys with projections 50 to engage in slots 51 in the roof plates 12 and 13.

This house may be supported upon rubber blocks or feet 52 attached to the under side of the base 1 in any known manner so as to avoid scratching or marring the furniture or floors upon which the house is used.

A preferred manner of manufacture in order to reduce cost is to make the end walls 3, the roof plates 12 and 13, and the partitions 35 and 29, respectively, in duplicate form so that these parts may be readily formed by stamping. Inexpensive stove bolts may be used as the fasteners whereby the parts are secured together.

From the foregoing it will be seen that I have provided an attractive and useful toy which is of very strong construction and yet is sufficiently light in weight so that it can be easily handled and used by children. The construction, arrangement and relationship of the parts may be varied within equivalent limits without departure from the nature and principle of the invention.

I do not restrict myself unessentially, but what I claim and desire to secure by Letters Patent is:—

1. A device of the character described comprising a floor board, a pair of upright end plates, detachable elements fastening the lower edges of the end plates on the floor board, a rear plate having its ends abutting against the inner sides of the end plates, flanges on the rear edges of the end plates overlapping the rear sides of the ends of said rear plate, detachable means fastening said end plate in connection with said floor board, a flange along the upper edge of said rear plate, flanges along the upper ends of said end plates overlapping said flange on the upper edge of said rear plate, a rear roof plate seated upon said third-named flanges, fasteners passing through said roof plate and through the overlapping portions of said second and third-named flanges, a front roof plate overlapping the upper edge of said rear roof plate and removably attached to said end plates, a metallic strip connecting the upper corners of said end plates at the front, a forwardly extending flange on said strip, and a door hinged to said last named flange and to said floor board.

2. A device of the character described comprising a floor, a pair of upright end walls attached to the floor, a rear wall attached to the floor, flanges on said end walls forming abutments for said rear wall, roof sections attached to the upper ends of said end walls and said rear wall, a metallic strip

connecting the upper ends of said end walls at the front, a flange projecting forwardly from said strip beyond the front edges of said end walls, and a door having its lower end hinged to said floor and its upper end hinged to said flange on said strip and being movable to closed position between said floor and said flange on said strip.

3. A device of the character described comprising a floor, a pair of upright end walls attached to the floor, a rear wall extending from the rear edge of one of said end walls to the rear edge of the other end wall, means securing said rear wall in the position aforesaid, roof sections attached to the upper ends of said end walls, a metallic strip connecting the upper ends of said end walls at the front, and a door having its lower end hinged to said floor and its upper end hinged to said strip for movement from closed position to open position, and vice versa.

4. A device of the character described comprising a floor, a pair of upright end walls attached to the floor, a rear wall connecting the rear edges of said end walls, means for securing said rear wall in the position aforesaid, roof sections attached to the upper ends of said end walls, a metallic strip connecting the upper ends of said end walls at the front, a door having its lower end hinged to said floor and its upper end hinged to said strip and being movable from and to closed position, and means attaching and holding in rigid relationship the intermediate portions of said strip and said floor and said rear wall.

JAMES HENLY FRIER, JR.