

Aug. 23, 1927.

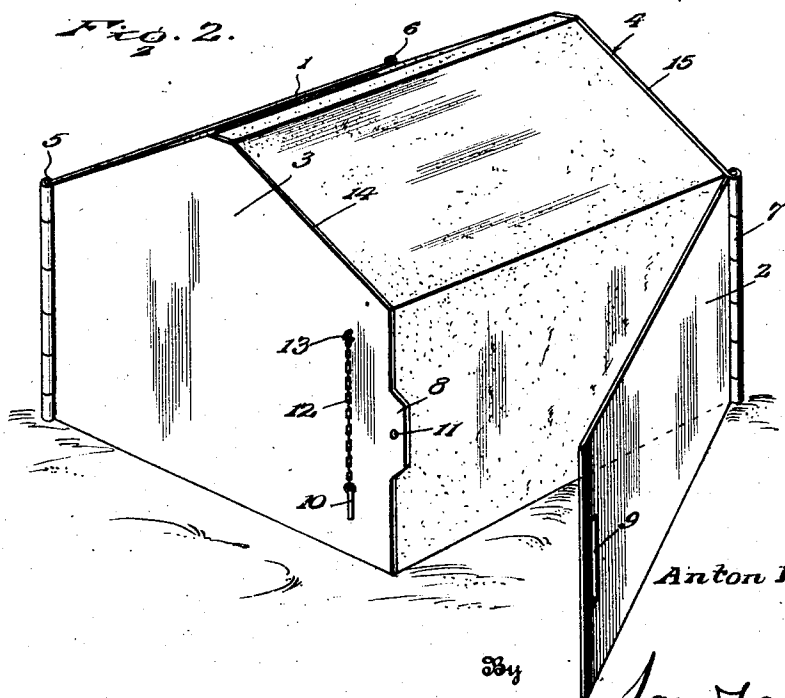
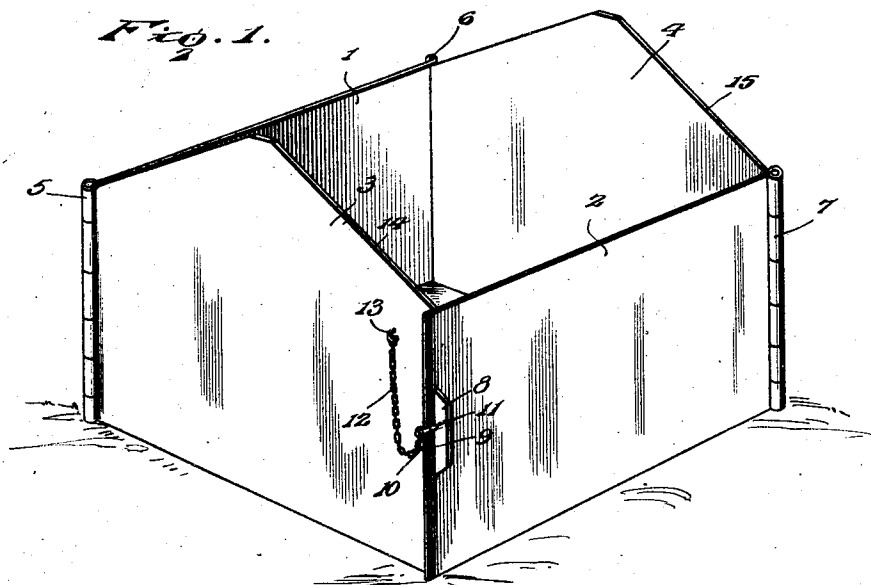
A. W. FERRING

1,639,934

SAND MOLD

Filed Dec. 31. 1925

2 Sheets-Sheet 1



Inventor

Anton W. Ferring

By

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Aug. 23, 1927.

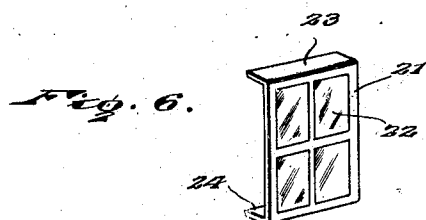
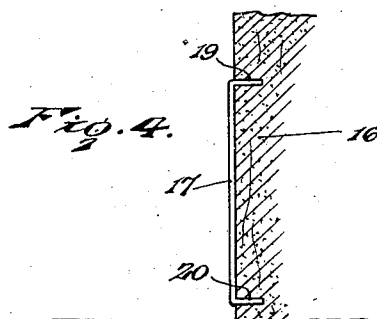
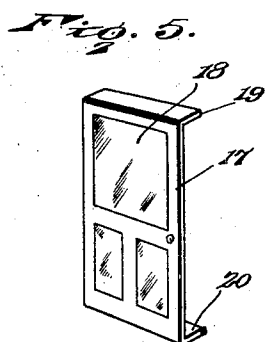
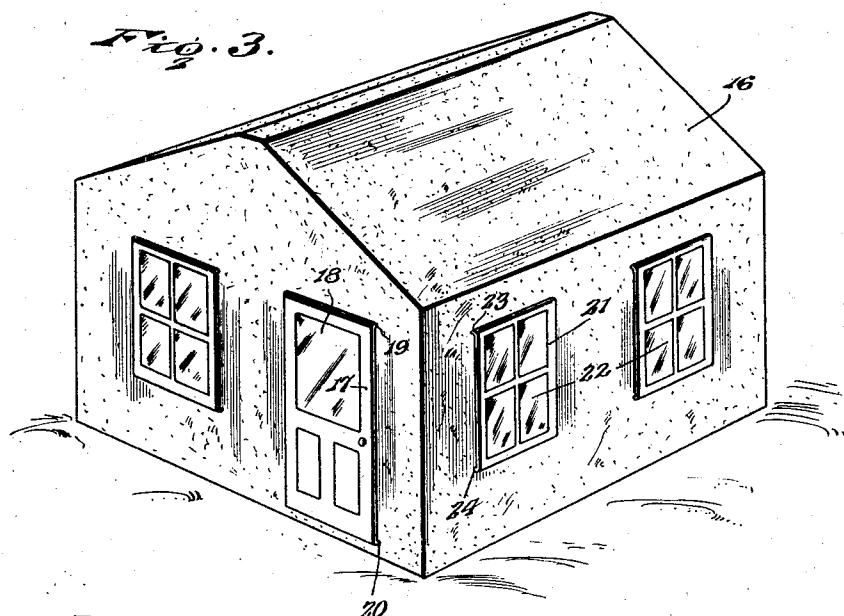
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SAND MOLD

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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE.

ANTON W. FERRING, OF DUBUQUE, IOWA.

SAND MOLD.

Application filed December 31, 1925. Serial No. 78,622.

This invention relates to a mold to be used by children in molding wet sand in the form of a house, and also relates to the combination with such a mold, of members which are adapted to be partially embedded in the molded form to represent doors and windows, etc., and one of the objects of the present invention is to provide a mold which may be readily set up even by a small child who has no knowledge of mechanics, and readily opened after the sand has been packed therein.

Another object of the invention is to so construct the mold that, while it may be folded to occupy but little space, it may be readily set up and, when set up, will maintain its proper shape while being filled with sand to produce the molded house image.

Another object of the invention is to so construct the mold that the same may be removed from the molded house image without in any way disturbing said image.

Another object of the invention is to provide, in connection with the mold, members which may be readily assembled with the sides of the house image to represent windows and doors.

In the accompanying drawings:

Figure 1 is a perspective view of the mold set up to receive the sand which is to be packed therein to produce the molded house image.

Figure 2 is a similar view illustrating the manner in which the mold may be separated from the molded house image without any disturbance of any portion of the latter.

Figure 3 is a perspective view of the house image with the door and window representing elements associated therewith.

Figure 4 is a vertical sectional view illustrating the manner in which one of the door members is to be assembled with the molded house image.

Figure 5 is a perspective view of the door representing member.

Figure 6 is a perspective view of one of the window representing members.

The mold proper embodying the invention is formed from sheet metal and comprises walls 1 and 2 which are substantially rectangular in shape, and walls 3 and 4 which are of substantially pentagonal form, the sides of each of the walls 3 and 4 being parallel and perpendicular, the bottom of each wall being horizontal and at right angles to the sides of the wall, and the upper

portions of the walls comprising the two remaining edges thereof being extended above the horizontal plane occupied by the upper edges of the walls 1 and 2. A hinge joint of any desired type, indicated by the numeral 5, hingedly connects the wall 1 and the wall 3; a similar hinge joint 6 connects the vertical edges of the walls 1 and 4, and a similar hinge joint 7 connects the vertical edges of the walls 2 and 4, so that all of the walls may be folded together in substantially flat form and the article thus adapted to occupy a minimum amount of space. The free vertical edge of the wall 3 is formed with a tongue 8 which preferably is of tapered, blunt form, and is snugly fitted through a slot 9 formed in the free edge portion of the wall 2, when the mold structure is set up for use, and at this point it will be evident that the engagement of the tongue 8 in the slot 9 will serve effectually as a means for preventing any relative displacement of the walls of the mold so that the same will be of true rectangular form and maintain this form after having been set up. In order that the wall 2 may be prevented from becoming disengaged from the wall 3, a pin 10 is provided and is removably fitted through an opening 11 formed in the tongue 8, the pin extending along the outer surface of the wall 2 and preferably having connected thereto a chain or cord or other flexible connection 12 which, at its other end, is connected, in any suitable manner, as at 13, to the wall 3, so that the pin will not be liable to be lost. The engagement of the pin through the opening 11 serves, of course, to prevent withdrawal of the tongue 8 from the slot 9, and, therefore, the parts are held in their proper assembled relation.

The lower edges of the walls of the mold all occupy a common horizontal plane so that the mold is adapted to be disposed in upright position upon the surface of a sandy beach and the child using the mold will fill the mold with wet sand, packing the same therein, until the mold is completely filled, the sand being piled above the upper edges of the walls 1 and 2 and smoothed off so that it will accord with the inclination of the upper edges of the walls 3 and 4 which are indicated respectively by the numerals 14 and 15. In this manner, a solid rectangular image of a house is produced and after this has been accomplished, the pin 10 may be withdrawn

from the opening 11 and the walls of the mold swung away from the sides of the molded image, thus leaving the image intact. At this point, it will be observed that the mold is not drawn upwardly from the molded house image, which would tend to disrupt the molded image, but that the walls are freely swung outwardly from the sides of the molded image and therefore there is no disturbance whatsoever of the image.

The molded house image is illustrated in Figure 3 of the drawings, and is indicated by the numeral 16 and the same is of a contour corresponding to the interior contour of the mold described above. Figures 5 and 6 of the drawings, illustrate in detail, respectively, door and window members which may be associated with the molded image 16, and the door member is indicated by the numeral 17 and may be formed from sheet metal and of a substantially rectangular form and may have painted upon its exterior surface the representations of panels or the like, indicated by the numeral 18. Rearwardly right angularly extending flanges 19 and 20 are provided at the upper and lower ends of the sheet of metal comprising the member 17, and are adapted to be embedded in one side of the molded house image 16, as clearly shown in Figure 3. The window representing member, which is shown in Figure 6, is indicated in general by the numeral 21 and the same is, as in the case of the door representing member 17, preferably formed of sheet metal and has painted upon its face representations of window panes, as indicated by the numeral 22, although, if desired, sheets of isinglass may be adhesively secured upon the face of the said member. Flanges 23 and 24, corresponding to the flanges 19 and 20, are provided at the upper and lower ends of the member 21 and are adapted to be embedded in the sides of the molded house image 16. It will be understood, of course, that any number of door and window members may be provided in connection with each mold and that the invention may be extended to the employment of members representing other portions of a house structure and assembled and maintained in position upon the molded image 16 in the same manner as in the case of the members 17 and 21.

It will be evident that the door and window members may be assembled or associated with the molded image 16 in any desired manner to suit the fancy of the child using the device and that inasmuch as these members are of a material different from the material of which the molded image 16 is composed, the finished image will be exceptionally attractive in appearance. Furthermore, it will be evident that the entire device comprising the mold and the members representing the doors, windows and other house fixtures, may be manufactured at exceptionally low cost, due to their simple construction.

Having thus described the invention, what I claim is:

1. A sand mold comprising a plurality of walls hingedly connected to one another in a series and adjustable about their hinged connections to provide a mold chamber of hollow geometric form open at its top and bottom, and means for connecting the free ends of the end ones of the series of walls, one of said walls at its free end being provided with a slot, and the said means comprising a tongue upon the free end of the other wall engageable through the said slot and having an opening therein, and a pin insertable through the opening and engaging the outer side of the first mentioned one of the end-most walls.

2. A toy sand mold set comprising a sand mold of hollow form open at its top and bottom to have sand packed therein and thereby form a molded image of a house structure from which image the mold may be removed, and a member representing a portion of a house structure having means adapting it to be applied to a portion of the molded house image after removal of the mold therefrom.

3. A door representing member for employment in connection with a mold for producing a solid image of a house of sand, comprising a plate having the component parts of a door represented on one face thereof and having flanges at its upper and lower end to be embedded in the molded image, the said flanges projecting from the other face of the plate.

In testimony whereof I affix my signature.

ANTON W. FERRING. [L. s.]