F. H. HALL.

TOY.

APPLICATION FILED JULY 3, 1915.

1,201,579. Patented Oct. 17, 1916.

Fig. 1

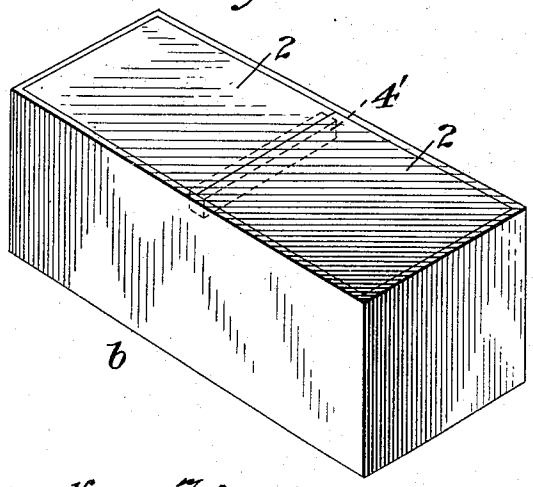


Fig. 2

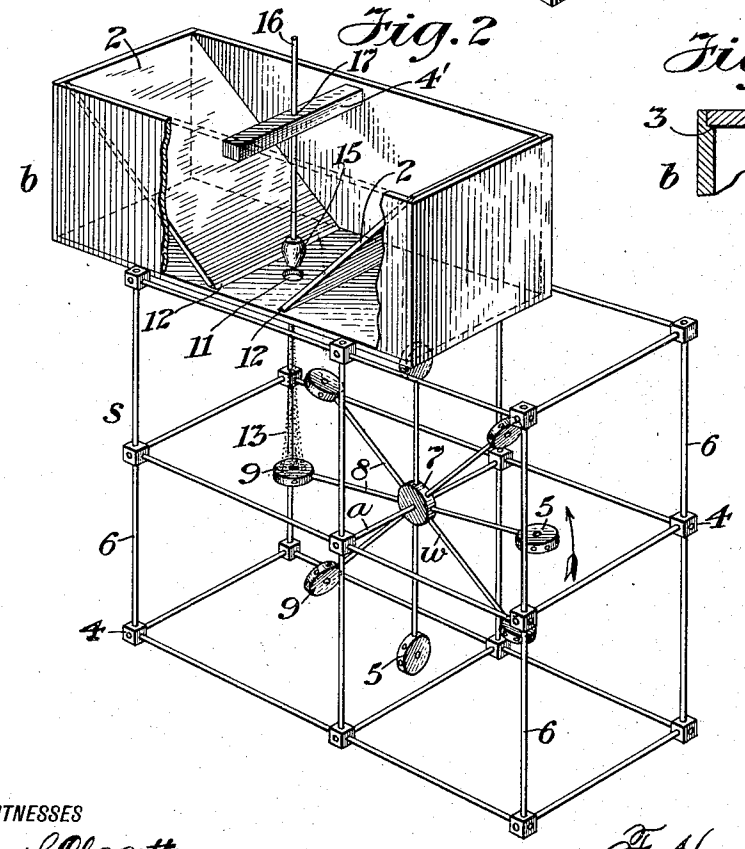


Fig. 3

WITNESSES

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TOY.

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To all whom it may concern:

Be it known that I, FRANK HARRY HALL, a citizen of the United States, and resident of Yonkers, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Toys, of which the following is a specification.

My invention relates generally to toys, and has special reference to that class of toys comprising building parts or elements which are put up in sets of various shapes and sizes for employment in building toy structures of various kinds. One popular form of such structure is a wheel mounted on a supporting frame and adapted to be driven or turned by means of a stream of sand or like material falling into contact with circumferentially arranged paddle members or disks on the wheel. The sand so used is placed in a receptacle or container having a suitable discharge opening for the sand. This container, when furnished as a separate part or element of the toy, obviously adds to the bulk and expense of the same, to avoid which has been one of the main objects of my invention. This object I accomplish by adapting the regular box or receptacle in which the toy is contained as the container and feeder for the sand, in the manner hereinafter disclosed.

Referring now to the accompanying drawings forming part of this specification: Figure 1 is a perspective view of a container embodying my invention, the container being shown with its cover in normal closing position as when the toy parts are contained therein. Fig. 2 is a perspective view of the container with the toy parts removed and adapted for use as a container and feeder for the sand, the same being shown partly broken away for the purpose of clearer illustration and as mounted on a frame carrying a wheel, which frame and wheel are made up of the toy parts taken from the container. Fig. 3 is an enlarged sectional detail, illustrating the manner of supporting the cover sections at the ends of the container.

The container may be of any desired form, size or material. In the present case it is a rectangular wooden box *b* having at its top a removable cover which, in accordance with my invention, is formed in two sections 2, 2, of a width corresponding to the inside width of the box and being supported in closing position with their outer ends resting on shoulders 3, 3, at the ends of the box and with their inner or adjacent ends resting on a cross-bar 4′ at the center of the box. The toy contained in this box will preferably comprise a number of cubes, disks and rods, as indicated at 4, 5 and 6, respectively, the cubes and disks being provided with holes or perforations to receive the ends of the rods in making connection between the parts in the building of the desired structures. These toy parts, as shown in Fig. 2, may be utilized to build a wheel, such as *w*, and a support therefor, such as *s;* the wheel *w* comprising a hub 7 having a series of spokes 8 carrying at their outer ends paddle members 9, and the support *s* being an open rectangular skeleton structure formed of cubes and rods, one of which rods, indicated at *a*, constitutes an axle on which the wheel *w* is mounted to revolve. It is of course understood that the form and structure of the wheel and its support may be substantially varied without in any way affecting my invention. When the toy parts have been removed from the box *b* and set up as shown in Fig. 2, for example, the box may then be converted into a container for the sand or like material to be used for imparting rotary motion to the wheel *w*. For permitting of this conversion of the box from a toy container to a sand container, the box, in addition to having its cover formed and supported in the manner hereinbefore described, is provided with a discharge opening 11 in its bottom wall. As a means to promote the flow of the sand through this opening 11, the cover sections 2, 2, are adapted to be placed in opposed inclined positions at opposite ends of the box with their inner ends in engagement with suitable stops on the bottom of the box, such as the cleats 12, 12, and in position adjacent the opening 11 at opposite sides thereof, as shown in Fig. 2. With this arrangement of the parts, when the box is located on the support *s* as shown in Fig. 2, a stream of sand or like material, as indicated at 13, flowing through the discharge opening 11, will strike the successive paddle members of the wheel at one point in their path of movement and thereby impart rotary motion to the wheel. The cover sections 2, 2, in their inclined positions in the box, act as chutes to direct and accelerate the feed of the sand through the opening 11 in said box.

In order that the feed or flow of the sand through the opening 11 may be regulated, I provide a tapered member 15 having a removable stem 16 adapted to be passed through an opening 17 in the cross-bar 4′, in which it is frictionally held in vertically adjustable position. By moving the stem 16 up or down in its opening in the cross-bar, the position of the attached member 15 relative to the opening 11 may be adjusted to regulate the size of said opening and thereby the feed of the sand therethrough.

When the box is no longer required for use as a sand container, the rod constituting the stem 15 is detached from the member 16 and withdrawn from its opening in the cross-bar, and the cover sections removed from their inclined positions within the box, after which the latter is ready to again receive the toy parts.

What I claim is:—

1. A container for toys and the like having a removable cover of a width corresponding to the inside width of the container, means for supporting the cover in closing position, and a discharge opening in one of its walls, the said cover when removed from its closing position being adapted for location in the container as an inclined chute to the said discharge opening therein.

2. A container for toys and the like having a removable cover formed in two sections and of a width corresponding to the inside width of the container, means for supporting the cover sections in closing position, and a discharge opening in one of its walls, the said cover sections when removed from their closing positions being adapted for location in the container at opposite sides of the discharge opening therein as opposed inclined chutes to the said opening.

3. A container for toys and the like having a removable cover of a width corresponding to the inside width of the container, means for supporting the cover in closing position, a discharge opening in one of its walls, and means for regulating the feed of material in said container from the discharge opening therein, the said cover when removed from its closing position being adapted for location in the container as an inclined chute to the said discharge opening therein.

4. A container for toys and the like having a removable cover of a width corresponding to the inside width of the container, means for supporting the cover in closing position, a discharge opening in one of its walls, a tapered member adjustable relative to said discharge opening for regulating the feed of material therethrough, and means for supporting said tapered member in adjustable position, the said cover when removed from its closing position being adapted for location in the container as an inclined chute to the discharge opening therein.

5. A container for toys and the like having a removable cover at its top, a cross-bar supporting said cover and provided with an opening therethrough, a discharge opening in its bottom wall below said cross-bar, and a supporting stem adjustably supported in said opening in the cross-bar and carrying a tapered member adjacent said discharge opening for regulating the feed of material therethrough.

6. A container for toys and the like having a removable cover at its top, a cross-bar supporting said cover and provided with an opening therethrough, a discharge opening in its bottom wall below said cross-bar, and a supporting stem adjustably supported in said opening in the cross-bar and carrying a tapered member adjacent said discharge opening for regulating the feed of material therethrough, the said cover when removed from the top of the container being adapted for location in the container as an inclined chute to the discharge opening therein.

7. A container for toys and the like having at its top a removable cover in two sections, a cross-bar supporting said cover sections and provided with an opening therethrough, a discharge opening in its bottom wall below said cross-bar, and a supporting stem adjustably supported in said opening in the cross-bar and carrying at its lower end a tapered member adjacent said discharge opening for regulating the feed of material therethrough, the said cover sections when removed from the top of the container being adapted for location in the container at opposite sides of the discharge opening therein as opposed inclined chutes to said opening.

Signed at New York, in the county of New York, and State of New York, this 23rd day of June, A. D. 1915.

F. HARRY HALL.

Witnesses:
CHAS. F. DANE,
C. J. BUTLER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."