C. C. MULDNER, JR.

SAND TOY.

APPLICATION FILED OCT. 11, 1920.

1,429,684. Patented Sept. 19, 1922.

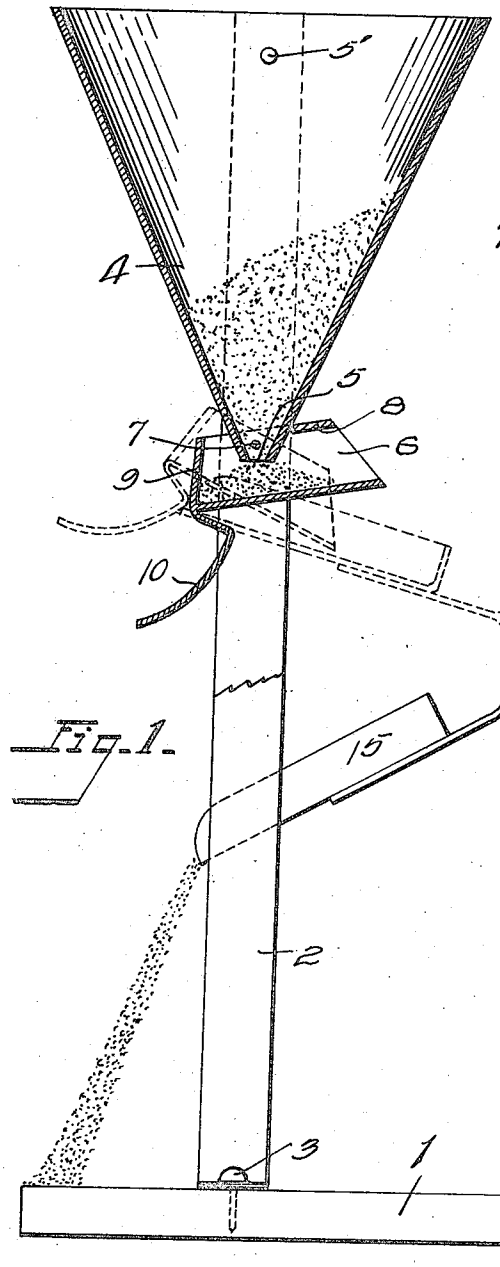


Fig. 1.

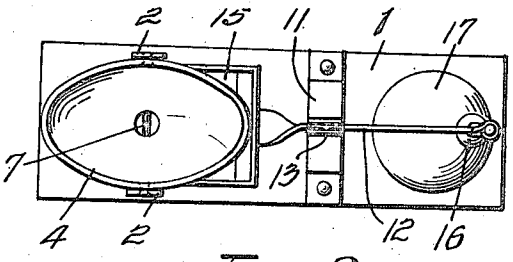


Fig. 2.

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Patented Sept. 19, 1922. 1,429,684

UNITED STATES PATENT OFFICE.

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SAND TOY.

Application filed October 11, 1920. Serial No. 416,045.

To all whom it may concern:

Be it known that I, CARL C. MULDNER, JR., a citizen of the United States, residing at Maplewood, in the county of St. Louis and State of Missouri, have invented certain new and useful Improvements in Sand Toys, of which the following is a specification.

My present invention relates to sand toys and has for its object to provide a toy having a rocking arm adapted to be provided with a sand tray at one end thereof to receive sand from a measuring and dumping receptacle for moving one end of the rocking arm downwardly to raise the opposite end thereof, which latter end is provided with a weighted member adapted to engage and sound an audible alarm when it has raised the sand tray end of the arm and tripped the dumping receptacle for refilling the sand tray to keep the rocking arm in a constant up and down rocking movement.

With the above and other objects in view, the invention consists in the novel features of construction, arrangement and combination of parts hereinafter more fully described and finally pointed out in the claims hereto appended.

Referring to the accompanying drawings forming a part of this specification wherein like characters of reference denote similar parts throughout the several views:

Fig. 1, is a vertical sectional elevation of the sand toy constructed in accordance with my invention.

Fig. 2, is a top plan view of the toy.

Referring to the drawings, 1 indicates a suitable base. A suitable supporting member 2 is mounted upon the base 1 at one end thereof, and fixed thereto by suitable fastening means 3, such as nails, or the like.

A sand hopper 4 having a lower open end 5 to form a discharge opening is fixed to the upper ends of the supporting member 2 by suitable fastening means 5′, such as rivets.

A sand measuring and dumping receptacle 6 having an open top and an open end is pivotally connected, as at 7, to the lower end of the sand hopper 4. The top of the hopper is provided with a suitable cross-piece 8 to act as a stop to limit the rocking movement of the recpetacle in one direction when filling the receptacle with sand and the end wall 9 of the receptacle limits the movement of the sand measuring and dumping receptacle while sand is discharged from the hopper thereinto. A suitably curved arm 10 extends downwardly and outwardly from the closed end of the dumping receptacle.

11 indicates a suitable supporting member mounted upon the base 1 near the center thereof and fixed thereto by suitable fastening means, such as nails. The supporting member 11 is preferably made of one piece of strap metal, such as tin, bent over at its upper end. 12 indicates a suitable rocking arm pivoted as at 13, to the supporting member 11 near the upper end thereof. The edge 14 at the top of the supporting member 11 acts as a stop for the rocking arm when in the position shown in full lines in Fig. 1. One end of the rocking arm 12 is provided with a sand tray 15 having its outer end open. The opposite end of the rocking arm 12 is provided with a bell sounding member 16 which is in the form of a weight for raising the sand tray end of the rocking lever 12 and cause the outer end of the sand tray 15 to engage and raise the curved arm 10 of the said measuring and dumping receptacle 6 for tilting the receptacle and dumping the sand contents thereof upon the sand tray 15 for raising the weighted end of the lever and at the same time discharging the sand dumped thereof.

When the sand tray has assumed the position as shown in dotted lines in Fig. 1, it will be observed that the bell sounding member 16 will have come into sudden contact with a suitable bell 17 mounted upon the supporting member 18, which supporting member is suitably fixed to the upper face of the base 1 by suitable fastening means 19, such as nails, or the like. It is evident that each time that the sand tray has discharged the sand deposited thereon from the sand measuring and dumping receptacle 6, that the bell sounding member 16 will come into sudden contact with the bell 17 sounding an audible alarm each time the weight end of the rocking lever moves downward.

It is evident from the foregoing description that each time the sand tray end of the rocking lever raises, that it trips the sand measuring and dumping receptacle which has been filled from the hopper and that the weighted end of the lever sounds an audible alarm, such as a bell, thus causing the bell to ring each time that the sand measuring and dumping receptacle is tripped for loading the sand tray which discharges its load during its downward movement, which movement is imparted to the rocking arm by the

weight of the sand dumped upon the sand tray.

It is evident that a toy constructed and operated as hereindescribed, will be very attractive to children from the standpoint of sounding an audible alarm each time a load of sand is dumped upon the sand tray, of the rocking arm.

The many advantages of the hereindescribed invention will readily suggest themselves to those skilled in the art to which it appertains.

I do not wish to be understood as having limited myself to the exact details of construction shown and described, but desire to have it understood that the invention I have shown in the drawings is merely illustrative, as it is manifest that various minor changes may be made in the form, shape and particular arrangements of parts without departing from the spirit of my invention, hence I reserve the right to make any such changes, or modifications as may fairly fall within the scope of the appended claims when fairly construed.

What I claim is:

1. In a toy of the class described comprising a sand hopper, means for supporting said hopper, a dumping receptacle pivotally connected to the lower end of the sand hopper, a tripping arm fixed to said dumping receptacle, a rocker arm, a support for said rocker arm, a sand tray fixed to one end of said rocker arm for engagement with the tripping arm for tilting the dumping receptacle when in its uppermost position, a bell, a support for said bell, and weighted means fixed to the opposite end of the rocker arm for striking and sounding the bell each time the dumping receptacle is tripped.

2. In a sand toy, a base, a rocker arm pivotally supported above said base, a bell supported by said base, a sand hopper supported by said base in an elevated position, a tray fixed to one end of said rocker arm, dumping means interposed between the lower end of the hopper and said tray, means for tripping the dumping means when the tray is in its elevated position for discharging sand therefrom upon sand tray and means for simultaneously sounding the bell when the dumping means is tripped.

3. In a sand toy, a supporting base, a sand hopper, a sand measuring and dumping means pivotally connected to the lower end of said sand hopper, a rocker arm, a sand receiving tray fixed to one end of said rocker arm for engaging and tripping the sand measuring and dumping means when the tray is in its uppermost position, an alarm, and means for sounding said alarm simultaneously with the tripping of said sand measuring means, said receiving tray discharging its load in its downward movement caused by the weight of the sand deposited thereon from the sand measuring and dumping means.

In testimony whereof, I have hereunto signed my name to the specification.

CARL C. MULDNER, JR.