W. M. COLEMAN.

TOY.

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1,435,585. Patented Nov. 14, 1922.

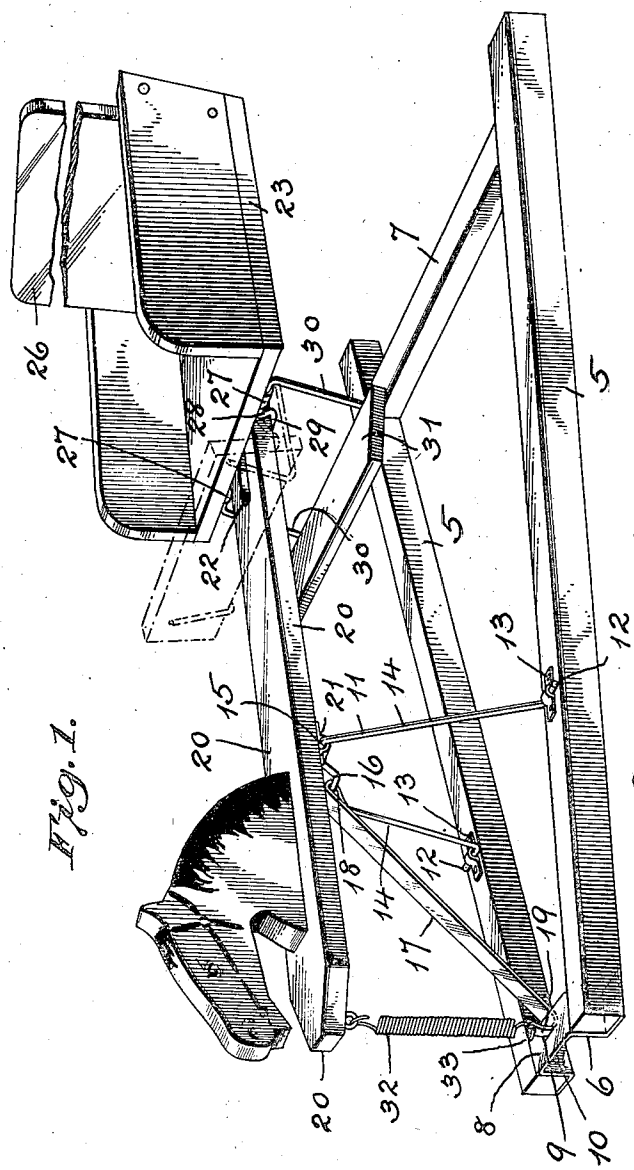


Fig. 1.

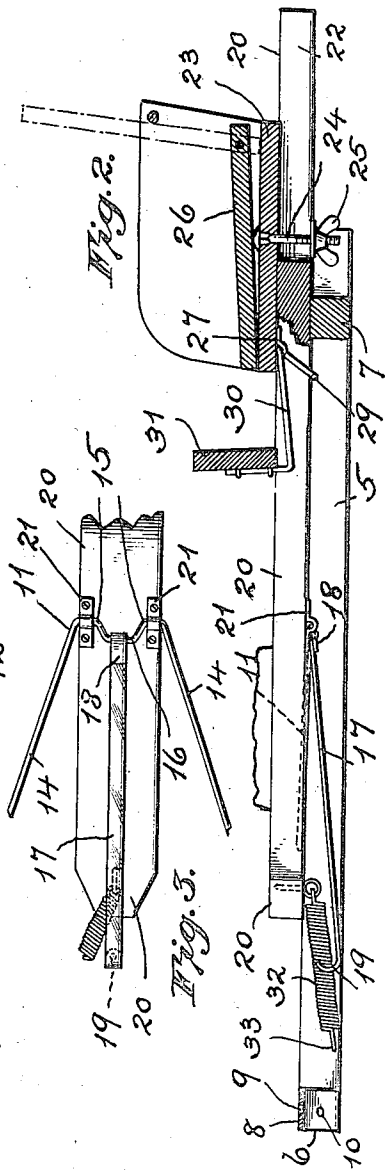


Fig. 2.

Fig. 3.

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UNITED STATES PATENT OFFICE.

WALTER M. COLEMAN, OF BALTIMORE, MARYLAND.

TOY.

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To all whom it may concern:

Be it known that WALTER M. COLEMAN, a citizen of the United States, residing at Baltimore, in the State of Maryland, has invented certain new and useful Improvements in Toys, of which the following is a specification.

My invention relates to improvements in toys and is directed to a toy somewhat resembling a see-saw but is designed so that it may afford amusement for a single child instead of requiring the cooperation of two children as is common in the ordinary see-saw structures.

The objects of the invention are to provide a toy that is novel in construction and operation; which may be operated by one child and which may be sufficiently collapsed and folded together, when not in use, as to enable it to be placed under a bed or other low structure out of the way.

The invention is illustrated in the accompanying drawing, wherein,—

Fig. 1 shows the improved toy in perspective as the same appears when set up and ready for use.

Fig. 2 illustrates the toy in vertical longitudinal section,—the parts in this view however, being in the collapsed position, and

Fig. 3 shows a bottom view of the forward end of the rock bar and the parts connected thereto all as they appear when the bar is in the collapsed or depressed position.

Referring to the drawing, the numeral 5 designates two spaced-apart base strips which are connected at their forward ends to the opposite ends of a short foot-plate 6, and at the rear ends said base strips are connected by a comparatively long cross-bar 7 whereby said strips will diverge as they extend from front to rear to form a broad base structure.

The foot plate 6 at the forward ends of the base strips is preferably formed of metal and has a raised or arched central portion 8 with a vertical slot 9 therein, and is provided with lateral flat flanges or feet at each side on which the forward ends of the base strips seat,—suitable fastening means, such as a nail, screw or rivet 10, extend through the foot plates into the ends of the base strips to rigidly connect them.

Between the foot plate and the rear cross-bar, I pivotally sustain a fulcrum-frame 11 on the upper sides of or to the base strips.

In the present instance this fulcrum-frame is formed of bar metal that is round in cross-section and has two lateral bearing ends 12, each of which is pivotally connected to a base strip, as for example, by means of bearing plates 13. From the bearing ends the frame has inclined supporting stretches 14 which, when swung upright, converge or extend inwardly with respect to the base strips, and at the upper ends of these stretches 14, I form in the frame two side bearing bends 15, and a central bearing bend 16, as clearly shown in Fig. 3 of the drawing.

It will thus be seen that the fulcrum-frame is formed of a single piece of bar metal and that the bearing bend 16 is located at a midway point with a bend 15 on each side thereof and with a lateral bearing end 12 at each end thereof.

This fulcrum frame is connected to one end of a brace-bar 17,—the connection being formed by bending the bar end into the form of a loop or hook 18, and having it extend around the central bearing bend 16 of the fulcrum frame whereby to pivotally connect the two at what may be termed the rear end of the brace-bar.

The forward end of the said brace-bar 17, is provided with an up-turned hook 19 through which there is punched a hole or perforation and when it is desired to hold the fulcrum-frame in an upright position, this up-turned hook 19, is passed up through the slot 9 in the arched portion of the foot plate so as to engage said plate, as shown in Fig. 1, of the drawing.

Above the base strips and fulcrum-frame there is provided a horizontal rock-bar 20, to the under side of which the bearing bends 15, of the fulcrum-frame are pivotally connected by means of bearing plates 21, for a purpose that will presently be explained.

The rear end of the rock-bar 20 is provided with a central longitudinal slot 22, and a seat 23 rests upon the upper side of said rock-bar and has a bolt 24, projecting downwardly therefrom and through the slot so that a wing nut 25 on the lower end of the bolt, may lock the seat in any longitudinally-adjusted position it may be placed on said rock-bar.

The seat has a pivoted vertical back 26, which may be swung forwardly to a horizontal position when the toy is not in use so as to make the same compact and more readily stored away.

On the bottom or underside of the seat, and at or adjacent to the front edge thereof, I provide horizontal bearing plates 27,—one on each side of the rock-bar and these brackets sustain a cross-bar 28 which has a central off-set 29, that extends down and under the rock-bar, so that the rock-bar projects through this central off-set 29 in the cross-bar.

Two ends 30 are bent down from the cross-bar 28 and the lower extremities of these ends sustain a foot-rest or cross-bar 31.

The forward end of the rock-bar 20 is connected to one end of a spiral or coiled spring 32, while the other end of said spring is provided with a hook 33 which is detachably connected to the upturned end of the hook 19 on the forward end of the brace-bar 17,—the spring hook 33, passing through the perforation in the said hook 19 after the latter has been inserted in the slot 9 of the foot-plate. This spring connection holds the hook 19, in engagement with the foot-plate 6 and also yieldingly draws the forward end of the rock-bar 20 down so as to normally keep the seat-end of said rock-bar in the position shown in Fig. 1.

When the toy is in the position shown in Fig. 1, of the drawing the same is ready for use and a child may be placed on the seat 23, which will be adjusted on the rock-bar 20 so as to be practically balanced with respect to the fulcrum-frame, whereby slight up and down exertion of the child in an effort to rock will cause the bar 20 to rock in the bearings 21.

When it is desired to put the toy away the seat 23, will be drawn rearwardly and removed from the rock-bar and the foot rest 31 then swung up so as to rest on top of said bar as the seat is returned as shown in Fig. 2.

The hook 33 of the spring will then be detached from hook 19 of the brace bar 17 and the latter then disconnected from the slot 9 of the foot plate 6.

The fulcrum frame 11 may then be rocked in the bearings 13, and the rock-bar 20 thus lowered into the position shown in Fig. 2, wherein the entire structure is rendered compact.

By pivoting the back 26, the latter may be swung down and materially reduce the vertical height of the toy when in the collapsed position so that the device may be pushed under a bed and gotten out of the way when not in use.

Having described my invention, I claim,—

1. The combination with a base-structure, of a fulcrum means pivotally attached to the base-structure so as to swing with respect thereto; a rock-bar pivotally connected to the pivoted fulcrum-means; a seat on one end of the rock-bar and a spring engaging the other end of said rock-bar.

2. The combination with a base-structure, of a fulcrum means pivotally attached to the base-structure so as to swing with respect thereto; movable means for holding the fulcrum-means in an upright operating position; a rock-bar sustained by the pivoted fulcrum-means and a spring attached to one end of the rock-bar whereby when the means for holding the fulcrum-means is collapsed the rock-bar and fulcrum-means may be lowered toward the base-structure.

3. The combination with a base-structure, of a fulcrum-frame pivotally attached at one end to the base-structure; a rock-bar pivotally sustained by the fulcrum-frame so that the end at one side of said frame will be shorter than that end at the opposite side of said frame; a spring attached to the shorter end of the rock-bar; a seat adjustably secured to the longer end of said bar, and means for holding the fulcrum-frame in the upright operating position.

4. The combination with a base structure, of a fulcrum device pivotally attached to the base structure whereby it may be moved from substantially a horizontal to substantially a vertical position; a rock-bar pivotally attached to the fulcrum device; a seat on one end of the rock-bar; yielding means connecting the other end of the rock-bar and a brace bar engaging the fulcrum device to hold the latter in the elevated position.

5. The combination with a base structure having a slotted means at one end thereof, of a fulcrum device pivoted to the base structure so as to swing upwardly therefrom; a rock-bar pivotally carried at the free end of the fulcrum device; a seat at one end of the rock-bar; a brace bar attached to the free end of said fulcrum device and having a hook to engage and pass through the slotted means on the base structure and a spring having one end engaging the said hook and its other end attached to the rock-bar.

In testimony whereof I affix my signature.

WALTER M. COLEMAN.