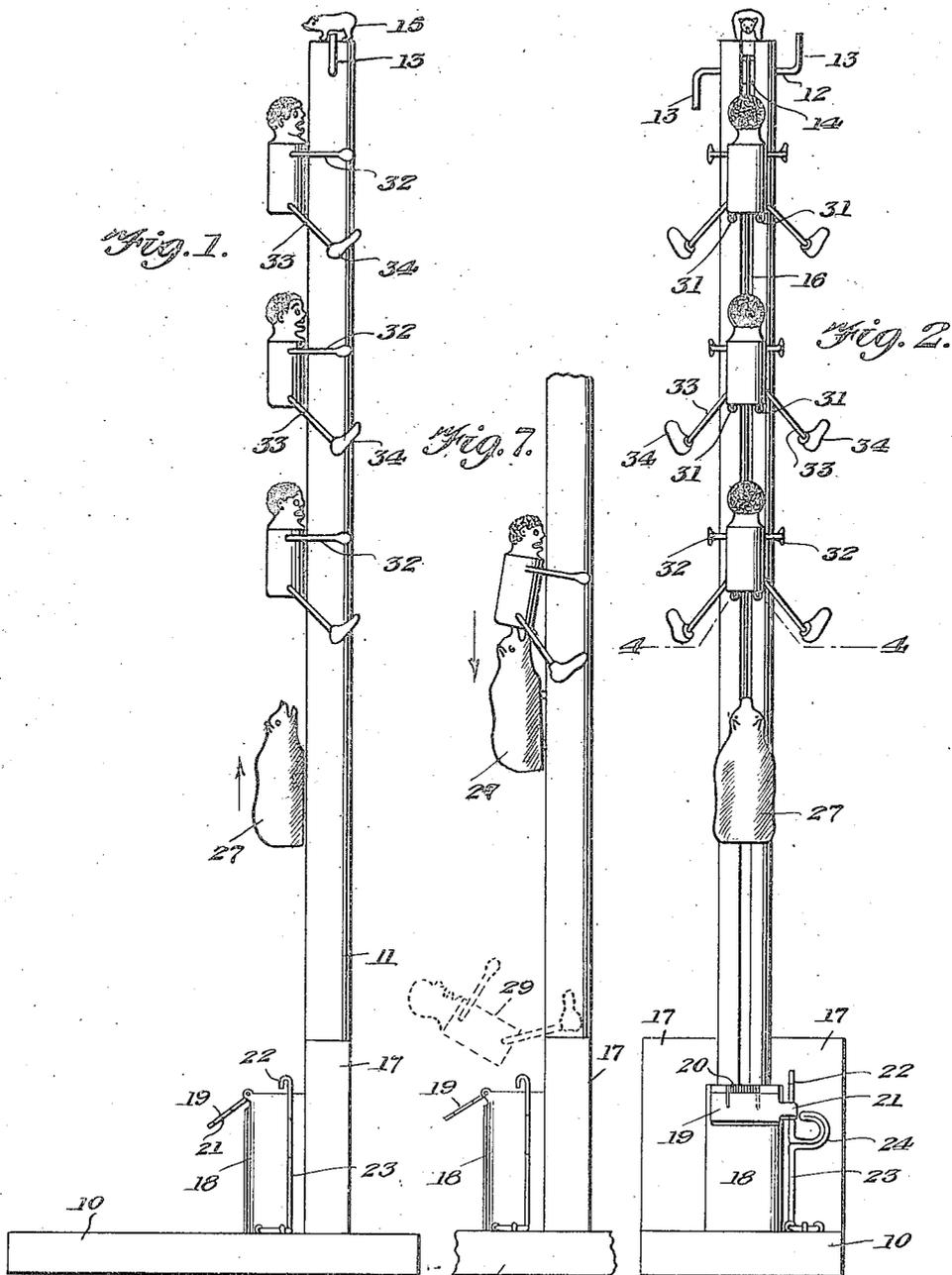


Jan. 2, 1923.

1,441,055.

R. D. BELLEW.
CLIMBING FIGURE TOY.
FILED JUNE 3, 1921.

2 SHEETS—SHEET 1.



W. Evans

WITNESS:

Ralph D. Bellew
INVENTOR
BY *Victor J. Evans*
ATTORNEY

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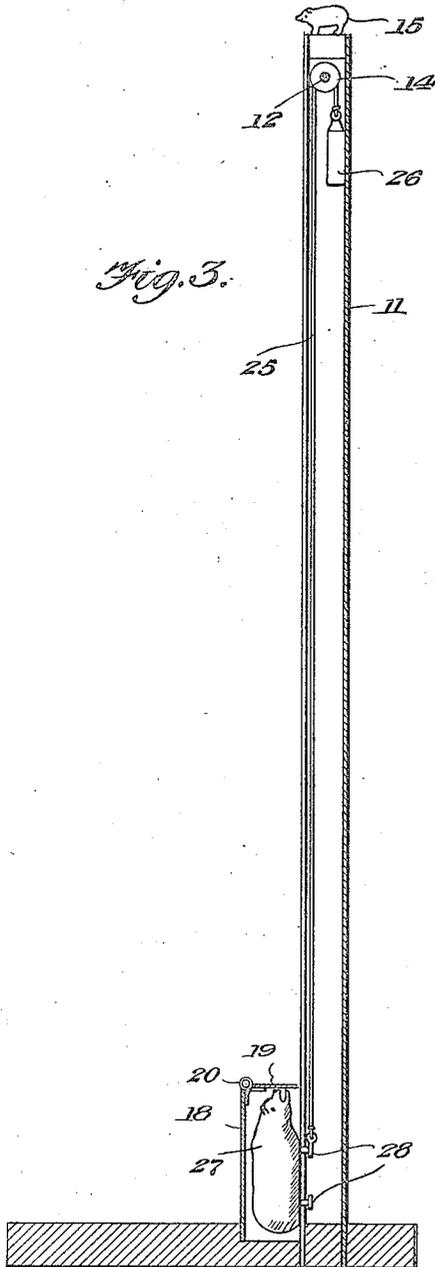


Fig. 3.

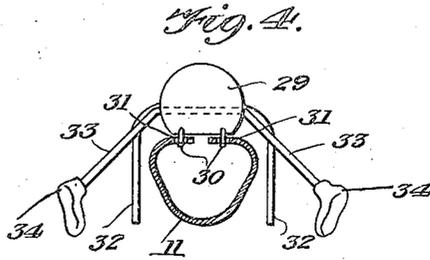


Fig. 4.

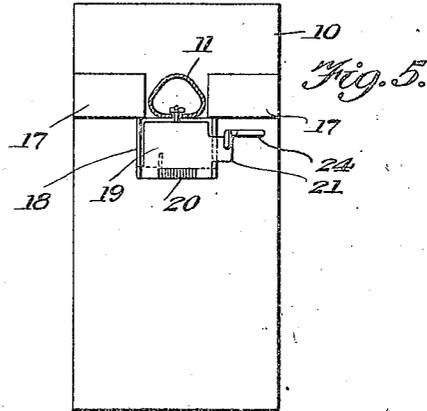


Fig. 5.



Fig. 6.

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UNITED STATES PATENT OFFICE.

RALPH D. BELLEW, OF LEXINGTON, NEBRASKA.

CLIMBING FIGURE TOY.

Application filed June 3, 1921. Serial No. 474,592.

To all whom it may concern:

Be it known that I, RALPH D. BELLEW, a citizen of the United States, residing at Lexington, in the county of Dawson and State of Nebraska, have invented new and useful Improvements in Climbing Figure Toys, of which the following is a specification.

This invention relates to toys, particularly to those of the automatic type, and has for its object the provision of a toy operating upon the gravity principle and including a vertical support up which moves a figure representing a bear supposed to be in pursuit of other figures representing negroes lodged at different points in the length of the support, the arrangement being such that when the bear reaches each negro figure he will carry the latter down to the bottom of the device and throw him off, after which the bear reascends and brings down the next figure, and so on, until all the figures have been dislodged whereupon the bear ascends to the top of the support presumably to reach the representation of a cub at said top.

An important object is the provision of a device of the above mentioned character in which the principle involved is merely that of gravity, a weight being provided for moving the bear upwardly and the successive figures dislodged by the bear counterbalancing this weight and causing the bear to descend until the successive figures are thrown off whereupon the weight will resume its action of moving the bear upwardly.

Another object is the provision of a device of this character in which the figure representing the bear is initially confined within the receptacle representing a stump located at the bottom of the support, a catch means being provided for springing the top of the receptacle to permit the bear figure to start its journey.

An additional object is the provision of a toy of this character which will be simple and inexpensive in manufacture, highly entertaining and amusing, not likely to get out of order, and a general improvement in the art.

With the above and other objects and advantages in view, the invention consists in the details of construction to be hereinafter more fully described and claimed and illustrated in the accompanying drawings in which

Figure 1 is a side elevation of my device,

Figure 2 is a front elevation,

Figure 3 is a vertical sectional view,

Figure 4 is a cross sectional view on the line 4-4 of Figure 2 showing the means for holding the figures upon the support,

Figure 5 is a cross sectional view showing the stump representation in plan,

Figure 6 is a perspective view of one of the figures and Figure 7 is a side elevation illustrating the action.

Referring more particularly to the drawings, the numeral 10 designates a suitable base formed actually as a block of wood of suitable dimensions. Secured to and rising from this base is a hollow support or stand 11 within the upper end of which is journaled a shaft 12 having its ends projecting beyond the standard and formed as cranks 13. Secured upon this shaft within the standard is a pulley 14. Secured upon the upper extremity of the standard is a small figure 15 representing a bear cub and this figure is stationary and is provided partly for ornamental purposes and partly to represent the goal to be reached in the operation of the device. It should be stated that the standard is provided in its front side with a longitudinal slot 16 which extends throughout its length.

Secured upon the base 10 immediately at the sides of the standard 11 are blocks 17 for a purpose to be described. Secured upon the base in front of the standard and close thereto, is a substantially cylindrical receptacle 18 designed to represent a stump and formed of sheet metal or other suitable material. This receptacle is provided with a hinged cover 19 engaged by a spring which normally tends to throw the cover into open position. This cover is provided at one side with a lug 21 which is engageable with a catch 22 formed on an upwardly extending spring rod 23 secured upon the base. This rod is also provided with an extension 24 constituting a handle whereby the rod may be moved to disengage the catch 22 from the lug 21 so that the cover 19 may fly open.

Located within the standard is a cord or the like trained over the pulley 14 and provided at one end with a weight 26. The numeral 26 designates a figure formed as the representation of a bear and secured to this figure is a guide 28 extending through the slot 16 and connected with the other end of the cord 25. The weight 26 is suffi-

ciently heavy that it counterbalances the weight of the figure 27 so that the latter has a tendency to rise.

In order to increase the interest of the device I provide a plurality of figures 29 formed as the representation of human beings and adapted to be held upon the standard 11 at intervals by means of a pair of pins 30 extending from the body of each figure 29 and loosely engaged within holes 31 in the front of the standard. These figures 29 have arms 32 partially embracing the standard and have inclined legs 33 terminating in weighted feet 34. The construction and arrangement of the parts of the figures is such that when the pins 30 are engaged within the holes 31 the weight of the feet 34 will operate to hold the figures 29 close against the standard.

The operation of the device is as follows:

Initially the bear figure 27 is pushed into the receptacle 18 after which the cover 10 is closed with the lug 21 engaging the catch 22. The figures 29 are then placed in position upon the standard. In order to start the operation of the device it is merely necessary that the operator press the extension handle 24 of the spring rod 23 whereupon the catch 22 will disengage the lug 21 and the spring-pressed cover 19 will fly open. The weight 26 will then operate to pull upon the cord 25 and this will result in moving the bear figure 27 upwardly along the standard. When the snout of the bear figure engages the lower end of the body of the first figure 29 the figure will be moved upward slightly and the pins 30 will be disengaged from the holes 31. The weight of this figure 29 will then rest upon the bear figure 27 and the combined weights of these two figures will overbalance the weight 26 and the bear figure 27 will descend carrying with it the first figure 29. As the bear figure reenters the receptacle 18 the feet 34 of the figure 29 will strike upon the upper ends of the blocks 17 which will result in overthrowing the figure 29 which will then fall onto the base 10. Being thus relieved of the weight of the figure 29 the bear will reascend the standard and will engage and carry down the succeeding figure 29 in exactly the same manner. This operation continues until the uppermost figure 29 is carried down and overthrown whereupon the bear will once more reascend the standard to the very top thereof and join the cub figure.

From the foregoing description and a study of the drawings it will be apparent that I have thus provided a simply constructed and consequently inexpensive toy which will be highly amusing and entertaining in use, which will be comparatively automatic in action after being started, and which will require very little skill and no

special knowledge in its setting. As the parts are few and the construction simple there will be practically nothing to get out of order and the device should therefore have a long life.

While I have shown and described the preferred embodiment of my invention, it is of course to be understood that I reserve the right to make such changes in the form, construction and arrangement of parts as will not depart from the spirit of the invention or the scope of the subjoined claims.

Having thus described my invention, I claim:

1. A toy of the character described comprising a base, a slotted hollow standard rising therefrom, a pulley journaled at the top of the standard, a cord trained over said pulley, a weight within the standard secured to one end of the cord, and a figure of a bear disposed externally of the standard and carrying a guide extending through said slot of the standard and connected with the other end of the cord, in combination with a plurality of figures arranged one above another along and detachably connected with the standard and adapted to be dislodged by said bear figure, said figures having arm and leg members engaging against the sides of the standard, and said figures having their center of gravity at such a point that they will slidably engage against the standard even when dislodged by upward movement of the first named figure, the weight of one of said second named figures upon the climbing figure overbalancing the weight within the standard to cause descent of the climbing figure carrying a second named figure, and means at the bottom of the standard for throwing off the second named figures successively from engagement with the climbing figure.

2. A toy of the character described comprising a base, a slotted hollow standard rising therefrom, a pulley journaled at the top of the standard, a cord trained over said pulley, a weight within the standard secured to one end of the cord, and a figure of a bear disposed externally of the standard and carrying a guide extending through said slot of the standard and connected with the other end of the cord, in combination with a plurality of figures arranged one above another along and detachably connected with the standard and adapted to be dislodged by said bear figure, said last named figures being held upon the support by means of pins projecting from the fronts of their bodies and engaging within holes in the standard, said figures having arm and leg members engaging against the sides of the standard, and said figures having their center of gravity at such a point that they will slidably engage against the standard

even when dislodged by upward movement of the first named figure, the weight of one of said second named figures upon the climbing figure overbalancing the weight within the standard to cause descent of the climbing figure carrying a second named figure, and means at the bottom of the standard for throwing off the second named figures successively from engagement with the climbing figure.

3. A toy of the character described comprising a base, a slotted hollow standard rising therefrom, a pulley journaled in the top of the standard, a cord trained over said pulley and carrying a weight, a figure slidable exteriorly of the standard and carrying a guide extending through the slot and connected with said cord, in combination with a plurality of figures arranged

one above another along and detachably connected with the standard and adapted to be successively dislodged by said first named figure whereby to over balance said weight and cause descent of the first named figure, said second named figures being weighted with the center of gravity near the standard whereby the second named figures will slidably engage the standard subsequent to dislodgment from their initial positions thereon, and an obstruction on said base engaged by the second named figure upon descent thereof whereby to effect dislodgment from engagement upon the first named figure.

In testimony whereof I affix my signature.

RALPH D. BELLEW.