(No Model.)

C. M. CRANDALL.

TOY.

No. 436,455. Patented Sept. 16, 1890.

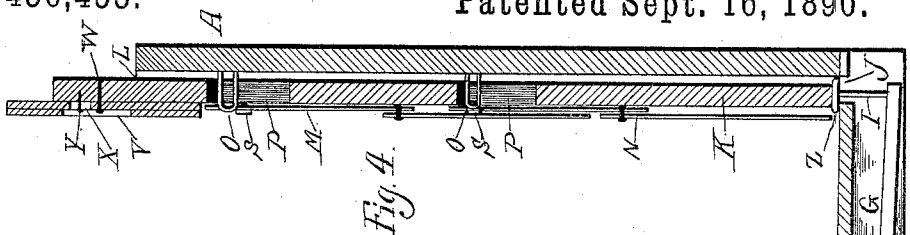


Fig. 4.

Fig 3

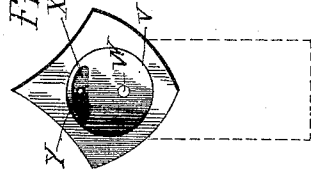


Fig. 1.

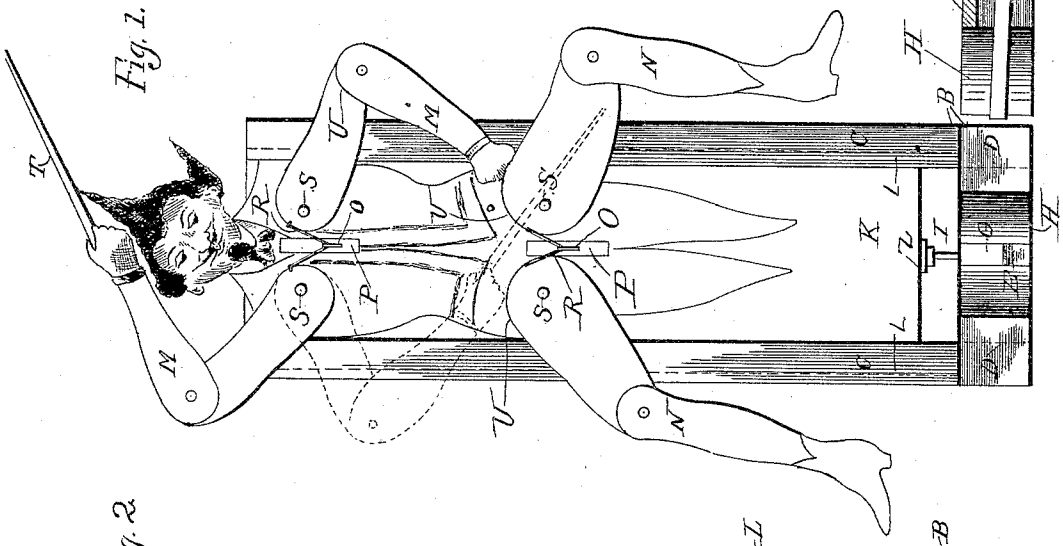
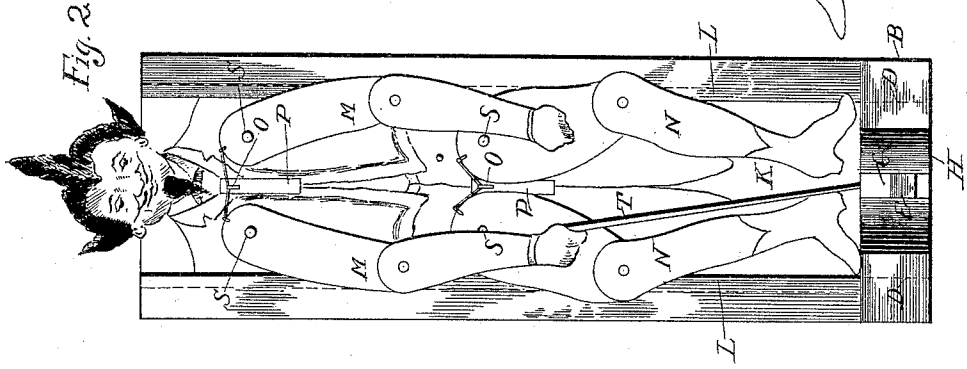


Fig. 2.



Witnesses.
Chas. G. Allen.
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Inventor
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per R. G. DuBois
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

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TOY.

SPECIFICATION forming part of Letters Patent No. 436,455, dated September 16, 1890.

Application filed July 9, 1890. Serial No. 358,163. (No model.)

To all whom it may concern:

Be it known that I, CHARLES M. CRANDALL, a citizen of the United States, residing at Waverly, in the county of Tioga and State of New York, have invented certain new and useful Improvements in Toys; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has special reference to that class of toys in which a figure is mechanically operated to perform various antics, and my object is to produce an amusing figure that can be made to dance and pose in a great variety of life-like attitudes by simply operating a lever or other movable part.

With this purpose in view my invention consists in the peculiar features and combinations of parts more fully described hereinafter, and pointed out in the claims.

Referring to the accompanying drawings, Figure 1 represents a front view of my complete device, showing the position of the figure when the slide is raised; Fig. 2, a view of the figure when the slide is down; Fig. 3, a detail of the head, and Fig. 4 a side elevation showing the lever mechanism for actuating the figure.

A standard A is secured to the base B by means of arms C, which fit in recesses D, extending through the base. A lever E, which is pivoted at F, lies in a longitudinal slot G, and one arm projects into a recess H in the front of the base and the other end is provided with a vertical arm I, which passes through a transverse hole J in the base, so that the arm comes in contact with the bottom of a slide K, which gravitates within vertical grooves or guideways L. This slide K carries upon it the figure of a clown having his arms M and legs N pivoted to the slide and movable therewith. The arms and legs are pivoted, respectively, at the elbow and knee, whereby the hands and feet are free to swing into various positions. The standard is provided with a pair of stationary staples or eyes O, which project into a pair of elongated slots P through the slide K. These slots are located between the shoulders and thighs of the figure. A cord or other flexible connection R is connected to the contiguous ends of the arms and passes through the staple O and across the slot, the arms and legs being connected alike. The arm and leg pivots or fulcrums are made of studs S, which, for the sake of cheapness, may be ordinary carpet-tacks driven in a sufficient distance to allow a small space between the head of the tack and the arm or leg for the purpose of receiving a sword T or other object in the right hand, as shown in dotted lines in Fig. 1. The sections of the arms and legs are joined by simply lapping one end over the other and passing a rivet through, and the edges U of the arms and legs form rests for the hands, feet, and sword to give the requisite pose. In the present instance the body of the figure is painted upon the slide K and the head and arms are pivoted to the slide. Another peculiar feature of my device is the head, which is composed of a piece of pasteboard, thin wood, or similar material, having in the back of it a circular cavity V, containing a pivot W, eccentrically located, so that the heavier portion of the head is poised above it. A recess X in the bottom of this depression and a pin Y in the slide permit the pivoted head to have a limited oscillating movement to the right and left. This movement is often produced by the hands, arms, or sword coming in contact with the head and jarring it to one side. The bottom of the slide is provided with a cushion Z to break the fall.

Thus constructed the operation of my invention might be briefly described as follows: By depressing the end of the lever E the arm I flies up and carries with it the slide K, and in so doing the staples draw down upon the cords, thereby pulling the ends of the arms and legs simultaneously and raising them to the position shown in Fig. 1. If a sudden stroke be given the slide, the figure is liable to pose in the most natural and life-like way, for the sudden jerk upon the cords throws the elbows and knees quickly upward and swings the hands and feet into a great variety of attitudes. After having been pushed up suddenly by the lever the slide will drop by its own gravity as soon as released.

It is evident that my invention could be

changed in many slight ways which might suggest themselves to one skilled in the art. Therefore I do not limit myself to the precise construction herein shown.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a toy, a standard containing a reciprocating slide carrying the figure of a man having pivoted arms and legs, said slide having elongated slots between the thighs and shoulders of said man, staples or eyes located within said slots and secured to said standards, and flexible connections passing through said staples and having their opposite ends secured to said arms and legs, in the manner and for the purpose substantially as described.

2. In combination with a suitable base and standard, a gravitating slide bearing a figure and having central slots, a staple, eye, or similar device secured to said standard and located within the slots, arms and legs pivoted upon opposite sides of said slots, and flexible connections secured to said arms and legs and passing through the staples, in the manner and for the purpose substantially as described.

3. In combination with a suitable base and standard, a lever pivoted in said base, a slide secured to gravitate upon said standard and being provided with a figure, staples or eyes secured to the standard and located within elongated slots in the slide, said figure having its arms and legs pivoted upon opposite sides of the slots, and flexible connections secured to said arms and legs and passing through the staples, in the manner and for the purpose substantially as described.

4. In a toy, the combination of a standard provided with a gravitating slide carrying the figure of a man or the like, said figure having its arms and legs pivoted to the slide and connected by a flexible connection passing through a staple or other fixed object upon the standard, whereby the arms and legs are actuated by the reciprocations of the slide, in the manner and for the purpose substantially as described.

5. In a toy, a reciprocating slide carrying the figure of a man, said figure being provided with pivoted arms and a pivoted head so poised as to drop upon one side or the other by being struck by the arms and by the action of the slide, in the manner and for the purpose substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES M. CRANDALL.

Witnesses:

J. T. SAWYER,

J. B. FLOYD.