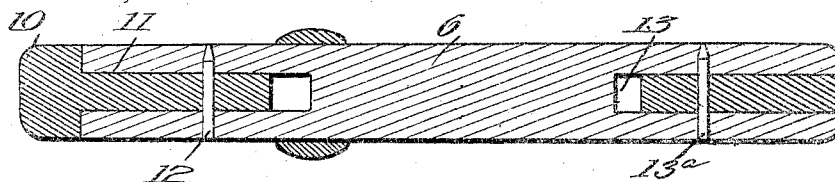


TOY.

1,043,808.

Patented Nov. 12, 1912.



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UNITED STATES PATENT OFFICE.

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TOY.

1,043,808.

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To all whom it may concern:

Be it known that I, CHARLES F. DENMAN, a citizen of the United States, residing at Nicholasville, in the county of Jessamine and State of Kentucky, have invented certain new and useful Improvements in Toys, of which the following is a specification.

This invention relates to toys consisting of a movable figure, which, in the present instance is a horse; and it is the object of the invention to provide a simple and amusing toy which will simulate the movements of the horse when running; the figure also including a rider, the latter being mounted so as to partake of the movements of the horse.

With the herein stated object in view, the invention consists in a novel construction and arrangement of parts to be hereinafter described and claimed, reference being had to the accompanying drawing, in which—

Figure 1 is an elevation of the toy, partly in section. Fig. 2 is a longitudinal section on the line 2—2 of Fig. 1.

Referring specifically to the drawing, 5 denotes a stand on which the figure is mounted. The stand is hollow and incloses the means to be presently described for actuating the figure.

As shown, the figure represents a horse 30 having a body portion 6, to the front and rear ends of which are pivoted parts 7 and 8 which represent the front and hind legs respectively, said parts being arranged to swing forward and rearward in a vertical plane and thus simulate the motion of the legs of a horse when running. The head 9 of the figure is formed integral with the neck 10, and the latter, in turn, is formed integral with the front legs or connected thereto so as to partake of the movements thereof, the neck and head swinging back when the front legs swing forward, and vice versa. At the junction of the neck and the front legs, said parts are reduced in thickness and fit in a slot 11 in the forward end of the body portion, with a pin 12 passing therethrough to form the pivotal connection.

The hind legs 8 are reduced in thickness at their junction with the body portion 6, the rear end of the latter having a slot 13 in which said reduced portion works, with a pin 13^a passing therethrough to form the pivotal connection. The tail 14 of the horse is formed integral with the reduced portion 55 of the hind legs 8, or connected thereto, so

as to swing with said legs. The front legs 7 are in two sections which are pivotally connected at 15 to form the knee-joint, and the hind legs are also in two sections, the said sections being pivotally connected at 16 to form the hock-joint. On the body portion 6 is mounted a figure 17 representing a rider, said figure being pivoted at 18 to the body portion so that it may sway back and forth, the movement of the neck portion 10 being communicated to the figure by connecting the arms 19 thereof to said neck portion, as indicated at 20. The body portion 6 is rigidly supported on the stand 5 by a standard or post 21 rising from the top thereof. Extending transversely of the stand 5, on the inside, and supported by the front and rear walls thereof, is a shaft 22 having a crank 23 which is connected by a pitman 24 to a curved bar 25, said bar passing at its ends 75 through slots 26 in the top of the stand. One end of the bar is connected to the front legs 7 and the other end to the hind legs 8, the connection being made at the hoof portion of said legs, the said hoof portions being slotted as indicated at 27. The ends of the bar extend into the slots and are pivotally connected to the hoof portions by pins 28 passing therethrough.

The shaft 22 may be rotated in any suitable manner, as, for instance, by a spring motor 29. When the shaft 22 is in motion, the bar 25 is carried back and forth by the pitman 24, and as said bar is connected to the legs 7 and 8, the latter are swung back and forth to simulate the movement of the legs of a horse when running, said movement of the legs being also transmitted to the neck 10, the tail 14, and the figure 17 as hereinbefore described. The knee and hock joints are 95 shouldered as indicated at 30 to limit the extent of the flexure of said joints. The lower sections of the legs swing until stopped by the shoulders, and thereafter the legs swing on the pivotal connection with the body portion 6. 100

I claim:

1. A toy comprising a figure having a rigid body portion, a front leg and neck portion pivoted to the body portion to swing together, and a hind leg portion pivoted to the body portion; a figure movably mounted on the body portion and connected to the neck portion, and means for swinging the legs. 105

2. A toy comprising a figure having a 110

rigid body portion, a front leg and neck portion pivoted to the body portion to swing together, and a hind leg portion pivoted to the body portion, said hind leg portion carrying a tail; a figure movably mounted on the body portion and connected to the neck portion, and means for swinging the legs.

3. A toy comprising a figure having a rigid body portion, a front leg and neck portion pivoted to the body portion to swing together, and a hind leg portion pivoted to the body portion; a figure movably mounted on the body portion and connected to the neck portion, a bar connecting the legs, a rotatable shaft having a crank, and a pitman connection between the crank and the bar.

4. A toy comprising a figure having a rigid body portion, integral front leg and neck portions pivoted to the body portion to swing together, and a hind leg portion pivoted to the body portion; a figure movably mounted on the body portion and connected to the neck portion to partake of the motion thereof, a connection between the aforesaid front and hind leg portions, and means for oscillating said connection.

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

CHARLES F. DENMAN.

Witnesses:

HENRY O. HORINE,
L. C. DRAKE.