

(No Model.)

R. LUCKENBACH.
TOY.

No. 546,021.

Patented Sept. 10, 1895.

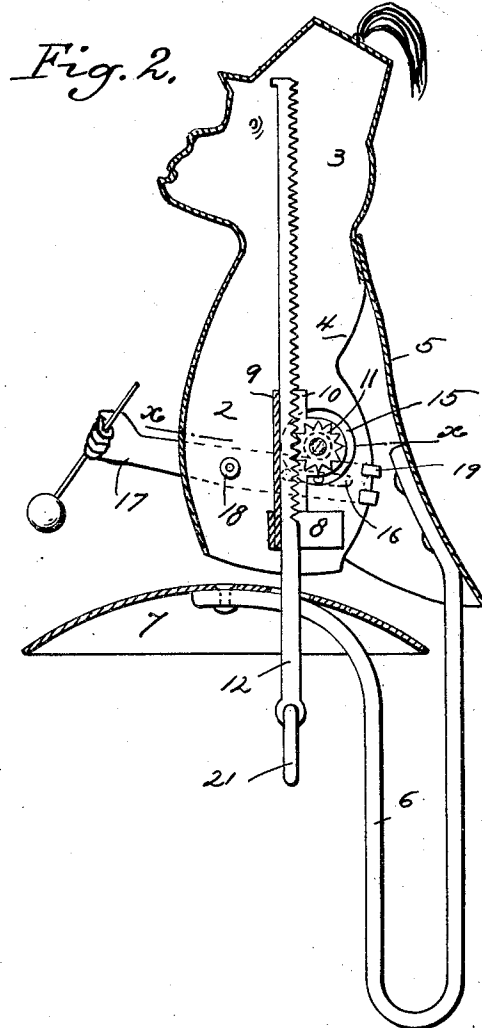
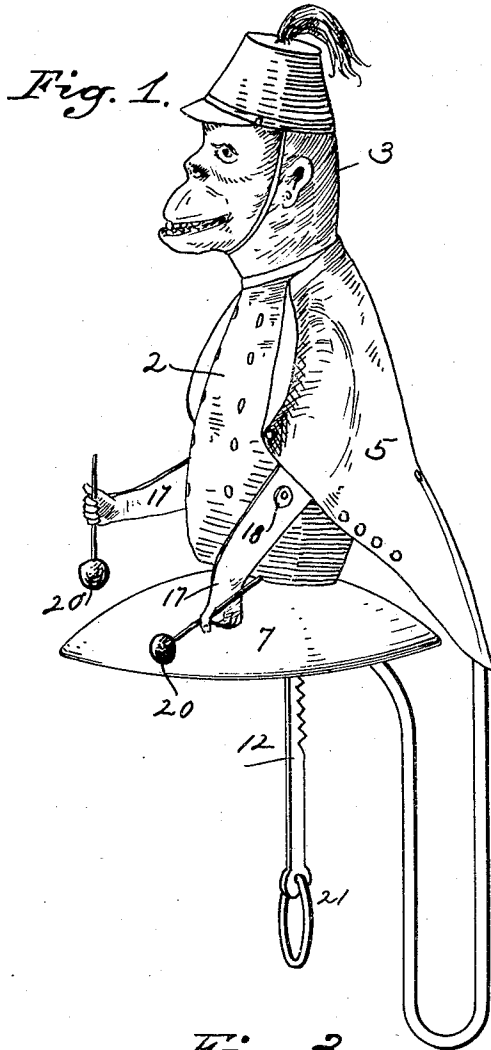
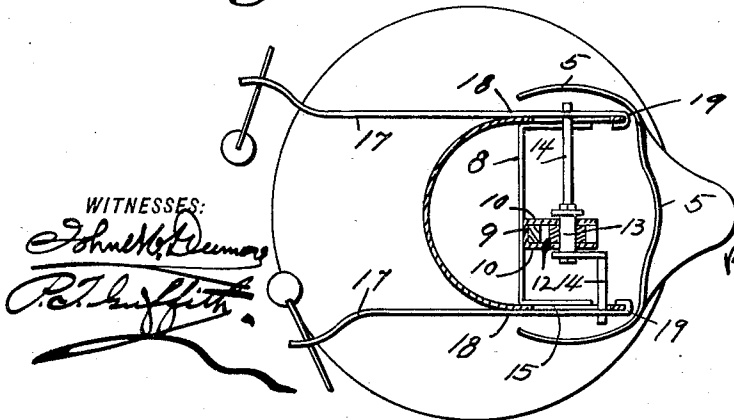


Fig. 3.



WITNESSES:

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INVENTOR

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UNITED STATES PATENT OFFICE.

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TOY.

SPECIFICATION forming part of Letters Patent No. 546,021, dated September 10, 1895.

Application filed March 2, 1895. Serial No. 540,283. (No model.)

To all whom it may concern:

Be it known that I, ROYER LUCKENBACH, a citizen of the United States, and a resident of Philadelphia, county of Philadelphia, and State of Pennsylvania, have invented certain new and useful Improvements in Toys, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar
10 numerals of reference indicate corresponding parts in all the figures.

My invention relates to toys, and the object thereof is to provide a toy drum-beater, consisting of a figure, preferably that of a monkey, with internal mechanism so constructed that by operating the same in the manner described the figure may be made to beat the drum or other device, the mechanism being so arranged that at each movement or operation thereof the regular time or marching beat is produced, which may, however, be varied as desired. This object I accomplish by means of the construction described in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 represents in elevation my improved toy; Fig. 2, a central vertical section thereof; and Fig. 3, a section on the line $x x$, Fig. 2.

Referring to the drawings, the numeral 2 designates the body of the figure, and 3 the head, and the body is preferably formed of one piece of thin metal curved or shaped to the required form and preferably open at the back throughout its length, as shown at 4, this opening being covered by a coat or skirt 5, also composed of sheet metal and of the general form shown. Secured to this coat or skirt and extending downwardly and then upwardly, as shown, is a handle 6, adapted to be grasped in operating the device, and to the upper curved end of this handle is secured the drum 7 or other device for the figure to beat upon. Within the body is secured a bracket or support 8, to which is secured an upward extension 9, having side flanges or plates 10, between which is pivoted or mount-

ed a pinion 11, and between which and the support 9 is a sliding rack-bar 12, designed to operate in connection with the pinion 11, as hereinafter described.

Secured to the shaft 13, on which the pinion 11 is mounted, at each end thereof and outside of the plates 10 are angular or crank-levers or arms 14, each of which is bent at right angles upon itself, and each of which is secured by means of its shortest portion to the pinion-shaft 13 in such manner that those portions of the levers by which they are attached to the shaft are at right angles to each other, as shown in Fig. 3. The long portions of the levers 14 extend outwardly through large circular holes 15 in the sides of the figure and pass through slots 16 in the arms 17 of the figure, which are pivoted at 18 to the body thereof. The rear ends of these arms are carried back and curved around the edges of the body-piece on each side, as shown at 19, which is so curved at this point as to form the arc of a circle, the radius of which is the distance between the pivot 18 and the curve 19 on the arms 17, whereby the curved portion of the body-piece serves as a guide to movement of the arm, and loops 19 assist to retain the arm in position. The hand of each arm of the figure is provided with a drum-stick 20, and to the lower end of the rack-bar 12 is preferably secured a ring 21.

The operation is as follows: The handle is grasped in one hand and the bar 12 operated by the other, being slid back and forth slowly or quickly, as desired, a moderate movement being preferable. The pinion 11 is operated by the bar 12, and by reason of the manner in which the levers 14 are connected therewith the arms of the figure will be made to strike the drum alternately but in quick succession, each drum-stick striking the drum at each movement of the bar 12, and the effect of the operation caused by sliding the bar 12 back and forth regularly and in time is to produce the regular time or marching-beat of the drum, and this may be quick or slow time, or varied to any degree required. It will thus be

seen that I accomplish the object of my invention by means of a device simple in construction and operation, which will readily attract the attention and which is comparatively inexpensive and not easily injured.

Having fully described my invention, I claim and desire to secure by Letters Patent the following:

1. In a toy drum-beater, the combination, with the body of the drum-beater, the arms of which are pivotally connected therewith, of a drum, a pinion supported in the body and in operative connection with said arms, and a rack bar connected with said pinion, and extending from the body for operating the device, substantially as shown and described.

2. In a toy drum-beater, the combination, with the body of the drum-beater, the arms of which are pivotally connected with the body, a pinion supported within the body and having angular or crank levers connected with the opposite ends of its shaft, said levers being also in operative connection with the arms of the figure, and a rack-bar for operating the pinion, extending from the body, substantially as shown and described.

3. A toy drum-beater, consisting of a figure having arms pivoted near their middles to the figure, and each being provided with a slot back of the pivoted connection, a pinion supported on a shaft in the body and provided at each side with an angular or crank lever, one part of which is secured to the shaft and the other passed through the slot in one of the arms, and a rack-bar for operating the pinion, substantially as shown and described.

4. A toy drum-beater, consisting of a figure having arms pivotally connected near their middles to the body of the figure, a pinion supported within the body and provided with crank-levers, one of which is connected with each arm by means of a slot formed therein,

and a rack-bar for operating the pinion, substantially as shown and described.

5. A toy drum-beater, consisting of a figure, having arms pivotally connected with the body of the figure, a pinion supported within the body of the figure and in operative connection with the pivoted arms, and a rack-bar for operating the pinion, substantially as shown and described.

6. The combination, in a toy, of a figure, having arms pivotally connected with the body thereof, a pinion within the body in operative connection with the pivoted arms, a rack-bar for operating the pinion, and a drum, supported in proximity to the pivoted arms by a handle secured to the figure, substantially as shown and described.

7. In a toy drum-beater, the combination of a figure, the body of which is open longitudinally, rearwardly and curved, as shown and described, of arms pivotally connected near their middles with the sides of the figure, and the rear ends being each provided with a longitudinal slot and carried back and curved around the edge of the curved body portion, a pinion supported on a shaft within the figure, and provided on each side with an angular or crank lever, one part of which is secured to the shaft and the other passed outwardly and through the slot in one of the arms, a rack-bar for operating the pinion, and a drum, supported in proximity to the pivoted arms by a handle secured to the figure, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 27th day of February, 1895.

ROYER LUCKENBACH.

Witnesses:

WILLIAM E. KELLY,
WM. MCKEE, Jr.