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PATENTED MAR. 24, 1908.

W. T. WOOD.

TOY.

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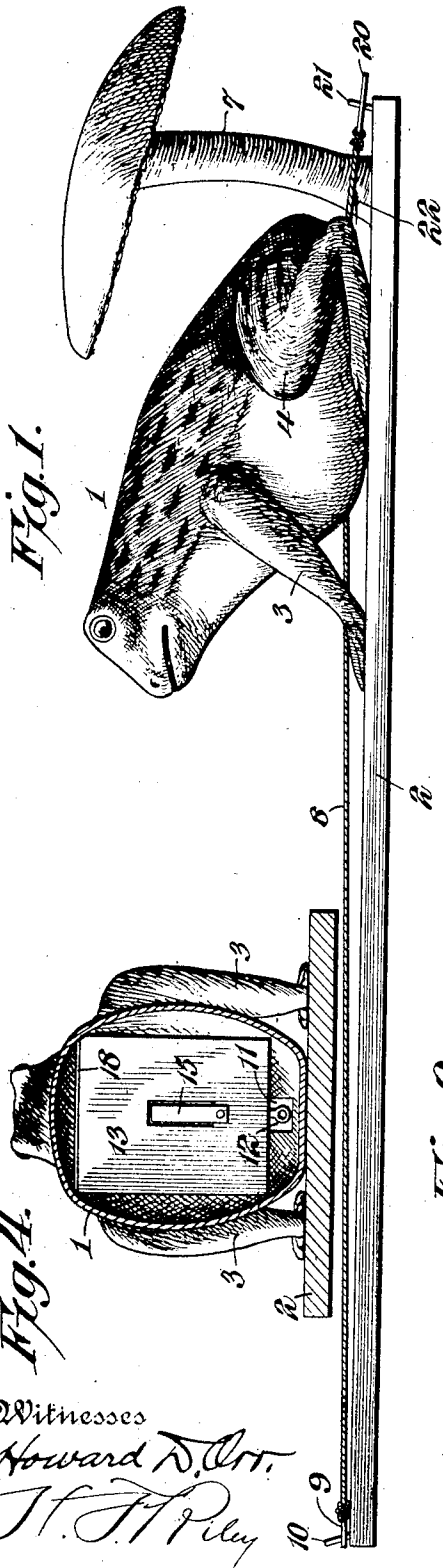


Fig. 1.

Fig. 4.

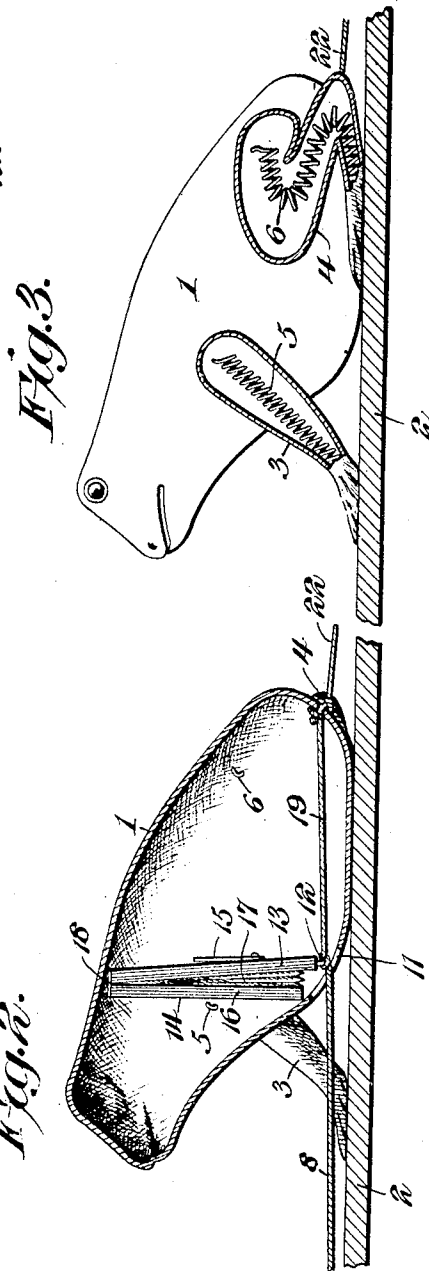


Fig. 3.

Fig. 2.

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WILLIAM THOMAS WOOD, OF NASHVILLE, TENNESSEE.

TOY.

No. 882,604.

Specification of Letters Patent

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To all whom it may concern:

Be it known that I, WILLIAM T. WOOD, a citizen of the United States, residing at 171 Third avenue north, Nashville, in the county of Davidson and State of Tennessee, have invented a new and useful Toy, of which the following is a specification.

The invention relates to improvements in toys.

The object of the present invention is to improve the construction of toys, and to provide a simple and inexpensive one, which will be both amusing and instructive.

A further object of the invention is to provide a toy having a movable figure in the form of an animal, adapted to leap through the air and carrying a sound producing device, which produces a note characteristic of the animal, while the same is in the air.

Another object of the invention is to provide a toy frog of this character adapted to move a considerable distance through the air and capable of rebounding and thereby presenting an appearance similar to that of a natural frog.

With these and other objects in view, the invention consists in the construction and novel combination and arrangement of parts, hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims, hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a side elevation of a toy constructed in accordance with this invention, and shown set. Fig. 2 is a longitudinal sectional view of the frog, illustrating the arrangement of the reversely operating elastic connections, and the sound producing device. Fig. 3 is a detail view of the frog, the legs being in section. Fig. 4 is a transverse sectional view of the frog.

Like numerals of reference designate corresponding parts in all the figures of the drawing.

1 designates a hollow figure, which, in the present instance, is in the form of a frog, and which is adapted to spring or leap from a base 2, as hereinafter fully explained. The hollow frog, which may be constructed of any suitable material, is designed, in practice, to be covered with green cloth, to pre-

sent the appearance of a natural frog. The frog is provided with elastic or yieldable legs or members 3 and 4. The front legs, which are straight, are hollow, as shown, and are provided with an interiorly arranged coiled spring 5. The hind legs 4 are also hollow, and are provided with an interiorly arranged coiled spring 6, which, when the toy is set, as illustrated in Figs. 1 and 3 of the drawing, is adapted to be bent so that the hind legs will present a similar appearance to that of the hind legs of a natural frog, when the latter is ready to spring or leap. When the figure of the frog is actuated by the means hereinafter described, and leaves the base 2, the hind legs straighten, and when the figure of the frog strikes the floor or other surface, the springs of the legs will cause the figure to rebound in a manner similar to the jump of a natural frog. The base may be held in the hand in a position to cause the frog to jump in the desired direction. The base is provided at the rear end with a fixed figure 7, which is in the form of a toad-stool, as shown in Fig. 1 of the drawing, and which may be constructed of any suitable material.

The figure of the frog is actuated by an elastic connection 8, consisting of a rubber cord or elastic, but it will be apparent that the movement of the figure may be obtained by a spring. The elastic connection 8, which extends forwardly from the figure, is provided at the outer end with a ring 9, adapted to be engaged with an inclined pin or projection 10, which extends upwardly and outwardly from the front of the base, whereby when the toy is sprung, and the figure 1 is thrown forward, the ring will slip readily from the pin and not retard the movement of the figure through the air. The elastic connection 8 extends through an opening 11 of the base or belly of the frog, and is attached to an eye 12 of a movable side or member 13 of a bellows 14, which is provided with a reed 15, and which constitutes a sound producing device, but any other desired form of sound producing device may be employed, and a plurality of reeds may be provided to produce a sound characteristic of the animal. The bellows is constructed in the ordinary manner, being provided with a fixed side 16, and having a flexible connection 17 of leather or other suitable material, extending from the fixed to the movable side, which is suitably hinged at the top at 18. The note or sound is produced by the

expansion of the bellows, which causes the air to vibrate the reed, and this operation is produced by an elastic connection 19, extending from the eye 12 to the back of the frog. The eye 12 is suitably secured to the lower edge of the movable side or member 13 of the bellows, and the elastic connection 19, which operates in opposition to the figure actuating elastic connection 8, is held ineffective or maintained inoperative, when the toy is set, by the actuating connection 8, which, when distended or stretched, exerts a greater force than the elastic connection, which operates the sound producing device. This result can be obtained either by employing a heavier elastic connection for actuating the figure, or by stretching such actuating means to a greater tension than the means for operating the sound producing device.

The figure of the frog is provided at the back with a ring or loop 20, which is adapted to engage a projection 21, extending from the upper face of the base. When the loop or ring 20 is disengaged from the projection 21 the actuating means is immediately thrown into operation and causes the figure of the frog to spring or leap through the air. As the force of the actuating means becomes reduced or spent, the means for operating the sound producing device is permitted to actuate the movable side of the bellows. The note is sounded either while the figure of the frog is in the air or when it strikes the floor or other surface.

The toy is instructive in that it is adapted to illustrate the traits of different animals, and the movable figure may assume various forms, and the fixed figure may be correspondingly changed to represent the haunts of the animal, or it may be associated with the same in any other manner.

The projection or pin 21, and the loop or ring 20, constitute a setting and tripping mechanism for the toy. The ring or loop, which is preferably connected with the figure 1, by a short flexible connection 22, may be readily lifted off the projection 21 by the thumb or finger, to spring the toy.

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

1. A toy comprising a movable figure, means for projecting the figure through the air, a sound producing device carried by the figure, and means also carried by the figure for operating the sound producing device.

2. A toy comprising a movable figure, means for projecting the figure through the air, a sound producing device located within and carried by the figure, and means also carried by the figure for operating the sound producing device after the figure has been set in motion.

3. A toy comprising a movable figure, means for projecting the figure bodily

through the air, a sound producing device carried by the figure, and means for operating the sound producing device after the figure has been set in motion.

4. A toy comprising a movable figure, means for projecting the figure through the air, a sound producing device carried by the figure, and means for operating the sound producing device, the last mentioned means being separate from the first mentioned means.

5. A toy comprising a movable figure, a sound producing device carried thereby, means for causing the said figure to be projected through the air, and means for operating the sound producing device, said last mentioned means being held inactive until the initial force of the first mentioned means has been spent.

6. A toy comprising a movable figure, a sound producing device carried thereby, means for causing the said figure to be projected through the air, and means for operating the sound producing device, the last mentioned means acting in opposition to the first mentioned means and being of less force, whereby the sound producing device is not sounded until after the figure has been set in motion.

7. A toy comprising a movable figure, a sound producing device carried thereby, elastic means for moving the figure, and elastic means for operating the sound producing device, the last mentioned means acting in opposition to the first-mentioned means and being less effective, whereby the sound producing device is not operated until after the figure has been set in motion.

8. A toy comprising a hollow movable figure having an interiorly arranged sound producing device, means for automatically operating the sound producing device, and actuating means for projecting the figure, said actuating means being also connected with the sound producing device for preventing the same from being operated until the figure has received the impulse of the actuating means.

9. A toy comprising a movable figure having a sound producing device, means for operating the sound producing device, and an elastic connection with the figure for operating the same, the other end of the elastic connection being attached to a fixed point.

10. A toy comprising a movable figure having a sound producing device, means for operating the sound producing device, an elastic connection for actuating the figure, and means for detachably anchoring one end of the elastic connection.

11. A toy comprising a movable figure having sound producing means, an elastic connection for actuating the figure, a relatively fixed projection, and means carried

by the elastic connection for detachably engaging the projection.

12. A toy comprising a figure, a sound producing device carried by the figure and embodying a bellows having a movable member, means for automatically moving the said member in one direction, and actuating means for the said figure, said actuating means operating to hold the said member at the limit of its movement in the opposite direction until the figure receives the impulse of the said actuating means.

13. A toy comprising a figure, a sound producing device carried by the figure and embodying a bellows having a movable member, an elastic bellows operating connection attached to the said movable member, and an elastic connection also attached to the movable member for actuating the said figure, the figure-actuating connection operating to hold the other connection inactive until the figure has received the impulse of the actuating connection.

14. A toy comprising a movable figure, elastic means connected thereto for actuating the figure, means for detachably holding the outer end of the elastic means, and means for detachably connecting the figure to a fixed point against the tension of the elastic means, whereby when the figure is released, it is permitted to move forwardly, the detachable connection of the elastic means being released by the forward movement so as not to retard the same.

15. A toy comprising a movable figure having resilient or cushioned members adapted to cause the figure to rebound when it strikes a surface, and actuating means operating independently of the movement of the said members for projecting the figure through the air.

16. A toy comprising a movable figure provided with legs or members, having interiorly arranged springs adapted to cause the figure to rebound, said springs also permitting the legs or members to be bent, and means for projecting the figure through the air.

17. A toy comprising a movable figure provided with legs or members, having interiorly arranged springs adapted to cause the

figure to rebound, said springs also permitting the legs or members to be bent, means for projecting the figure through the air, and setting mechanism connected with the figure for retaining the legs or members in a bent position until the toy is sprung.

18. A toy comprising a base, provided at opposite ends with projections, one of the projections being inclined forwardly, a movable figure, means embodying an actuating elastic connection for projecting the figure through the air, said elastic connection being provided with means for detachably engaging the inclined projection, and means also connected with the figure for engaging the other projection to set the toy.

19. A toy comprising a movable figure provided with legs or members and having springs concealed within the legs or members and adapted to cause the figure to rebound, and means for projecting the figure through the air.

20. A toy comprising a base provided with opposite projections, a movable figure, means embodying an actuating elastic connection for projecting the figure through the air, said connection being provided with means for engaging one of the projections, and means also connected with the figure for engaging the other projection to set the toy.

21. A toy comprising a movable figure provided with legs or members having interiorly arranged springs concealed within the legs, permitting the legs to be bent and causing the figure to rebound when the legs strike a hard surface.

22. A toy comprising a base or support, a movable figure, means embodying an elastic connection connected with the base or support and with the figure for projecting the latter through the air, and means for disconnecting the figure from the base to permit an uninterrupted movement of the said figure.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WILLIAM THOMAS WOOD.

Witnesses:

WM. B. GREENLEAF,
E. H. ROY.