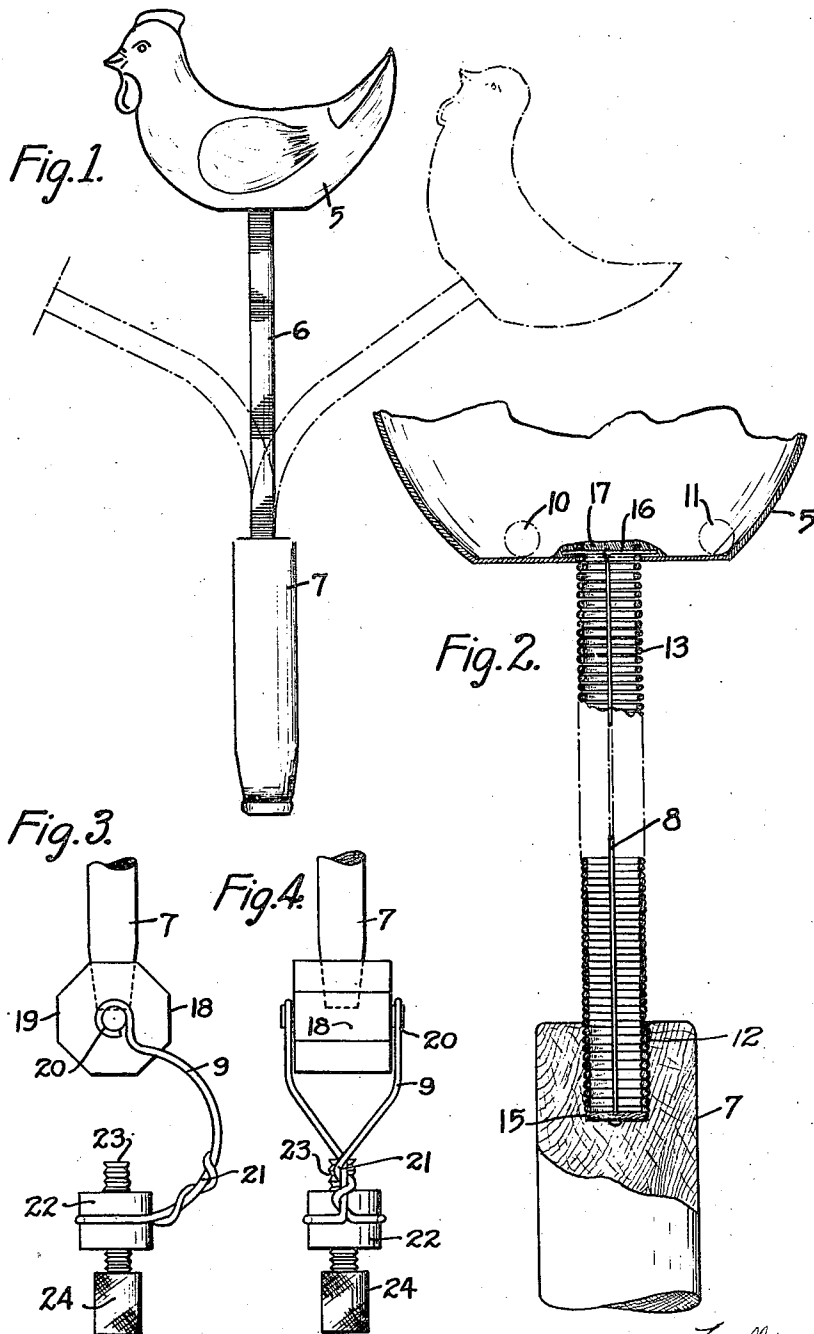


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W. J. COOK.
VIBRATING TOY.
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VIBRATING TOY.

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To all whom it may concern:

Be it known that I, WILLIAM J. COOK, a citizen of the United States, and resident of borough of Brooklyn, county of Kings, State of New York, have invented certain new and useful Improvements in Vibrating Toys.

The device the subject of this invention is intended as a toy for the amusement of children and particularly infants. The particular object of the invention is to provide a toy that will be cheap in construction and yet amusing and one that will continually move when held in the hand or secured to a device subject to movement or vibration.

Another object of the invention is to provide a device of this nature that cannot be pulled apart and one wherein the spring resilient member cannot be drawn out to an extent sufficient to catch or pinch the finger of the child when the spring again retracts.

Another object of the invention is to provide a device that can be secured to any support and in any position and with these objects in view the following is what I consider a preferred way of carrying out the invention and the accompanying drawings should be referred to for a complete understanding of the specification which follows:

In the drawings:

Fig. 1 is an elevation showing the simplest construction of my device.

Fig. 2 a sectional view of a part of the structure shown in Figure 1.

Fig. 3 a view in elevation of the universal clamping and securing means.

Fig. 4 is a view at right angles to Fig. 3.

Similar reference numerals indicate like parts in all the figures where they appear.

My device is constructed with but few free parts, namely, ornament or toy 5, supporting means 6, handle 7, limiting means 8, and clamping means referred to as a whole by reference character 9.

The toy or ornament 5 may be of any shape or size or design and I prefer that it should be light in construction and that it be made of celluloid or hollow wood or metal and while I have shown a somewhat crude representation of a bird at 5, it will be understood that other figures such as dolls or other animals may be employed. If the device is made hollow as preferred, I may ar-

range within the device one or more pebbles, shot, or balls as shown at 10 and 11.

The toy or image is supported upon a resilient member 6 which I have shown as a coiled spring. This spring should be made of rather thin wire so as to be exceedingly sensitive and attention is called to the fact that while the lower portion of the spring, that portion indicated by the reference character 12 is close wound in the upper portion the convolutions of the spring are somewhat further apart the object being to cause the spring to move to its great extent quite high up and to prevent to a certain extent, the movement of the spring close to the handle member 7.

The handle member 7 may be of wood or other material and is merely a plug shaped as desired and provided with a perforation 14 into which the lower end of the spring is introduced. Before placing the spring in the handle I may introduce a button or disc 15 to which is secured one end of a flexible but non-elastic member 8 and the upper end of this member 8 is passed through the spring and is secured to a bar 16 arranged within the body of the toy. The bar may pass through a convolution of the spring and be secured by means of the cement or glue deposit 17 which is depended upon to retain the spring with the toy.

The flexible member 8 should hang freely within the spring and yet the freedom or looseness of this member should be limited so that the spring can not be stretched or drawn outward thus separating the convolutions and causing the device to sag or become useless. Therefore the member 8 serves as a limiting means for withdrawing the spring.

It oftentimes will be desirable to secure this device to a support, a baby carriage or to a play chair. To accomplish this I provide a peculiarly constructed C clamp having a rotatable block 18 provided with pins or projections 19 received in loops 20 of the wire member 21. This wire member is carried around a second block 22 through which I pass a screw 23 having a head 24 for rotating the screw. An interior block 18 should be slightly tapered. The handle 7 of the toy is also slightly tapered so that the handle may be introduced into the block 18 and

secured therein by frictional engagement. As the block 18 is rotatable the toy can be arranged in a vertical position regardless of the plane or surface of the device to which it is attached.

5 Having described my invention, what I claim is:

1. A toy comprising a coiled spring, the convolutions at one end of said spring being
10 close together and the convolutions of the other end of said spring being spaced apart, an image upon the spaced convolutions of said spring and a handle on the open convolutions of said spring and means extend-
15 ing through said spring for preventing the spreading of said convolutions.

2. A toy comprising a coil spring, an image secured to one end of said spring and a handle secured to the other end of said
20 spring, a button under one end of said spring and a bar at the other end of said spring and a non-elastic flexible member extending

through said spring and secured to said button and said bar.

3. A toy comprising a handle provided 25 with a recess at one end thereof and an image provided with a perforation, a coiled spring having one end secured in said perforation and the other end secured in said recess and means secured by the securing 30 means of said spring for limiting the withdrawal of the convolutions of said spring.

4. A toy comprising a handle provided with a recess at one end thereof and an image provided with a perforation, a coiled spring 35 having one end secured in said perforation and the other end secured in said recess and means secured by the securing means of said spring for limiting the withdrawal of the convolutions of said spring, and a securing 40 member for said toy comprising a clamp provided with a rotatable block adapted to receive said handle.

WILLIAM JARDINE COOK.