April 18, 1950 J. S. LOONEY 2,504,432

ANIMATED TOY

Filed Oct. 5, 1945 2 Sheets-Sheet 1

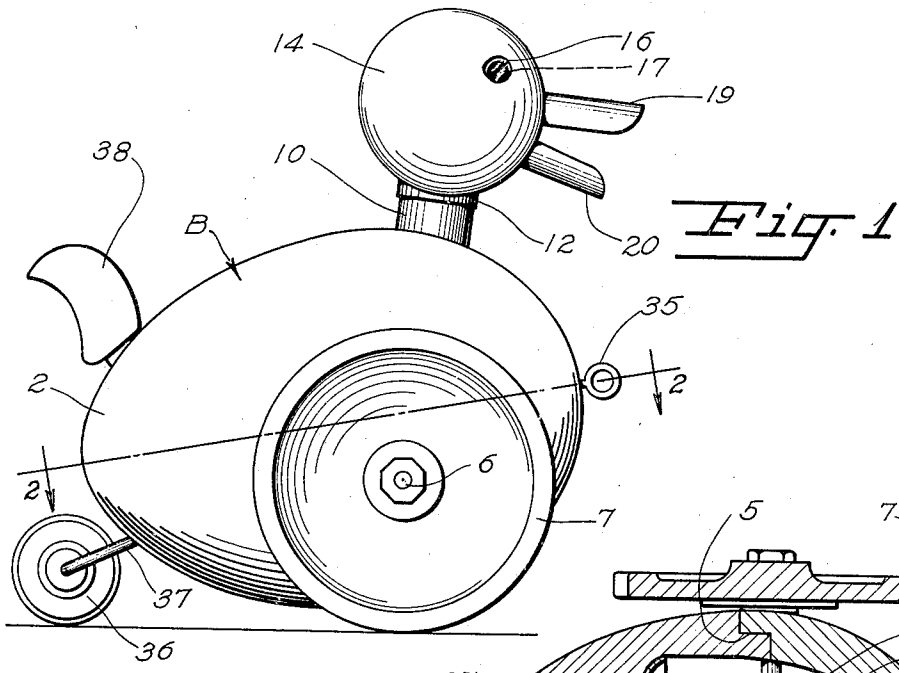


Fig. 1

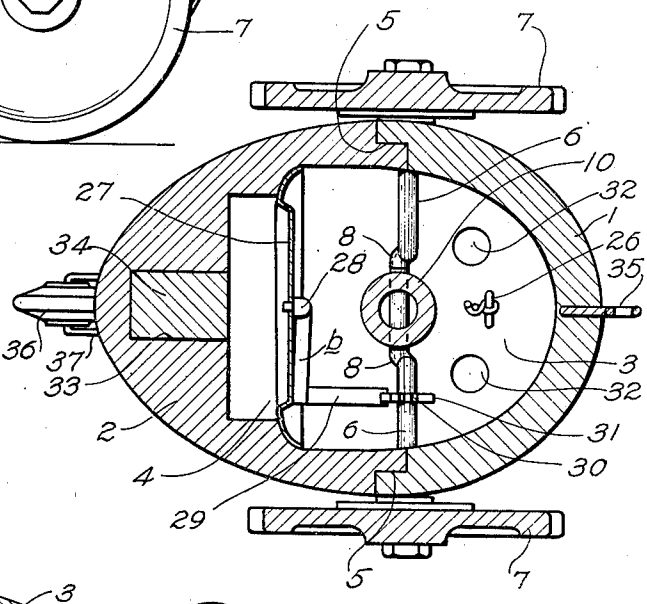


Fig. 2

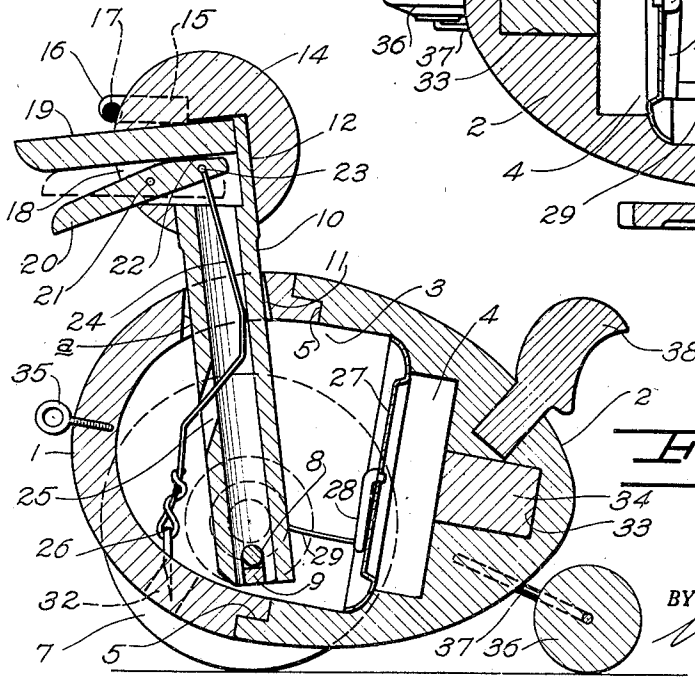


Fig. 3

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April 18, 1950 J. S. LOONEY 2,504,432

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Filed Oct. 5, 1945 2 Sheets-Sheet 2

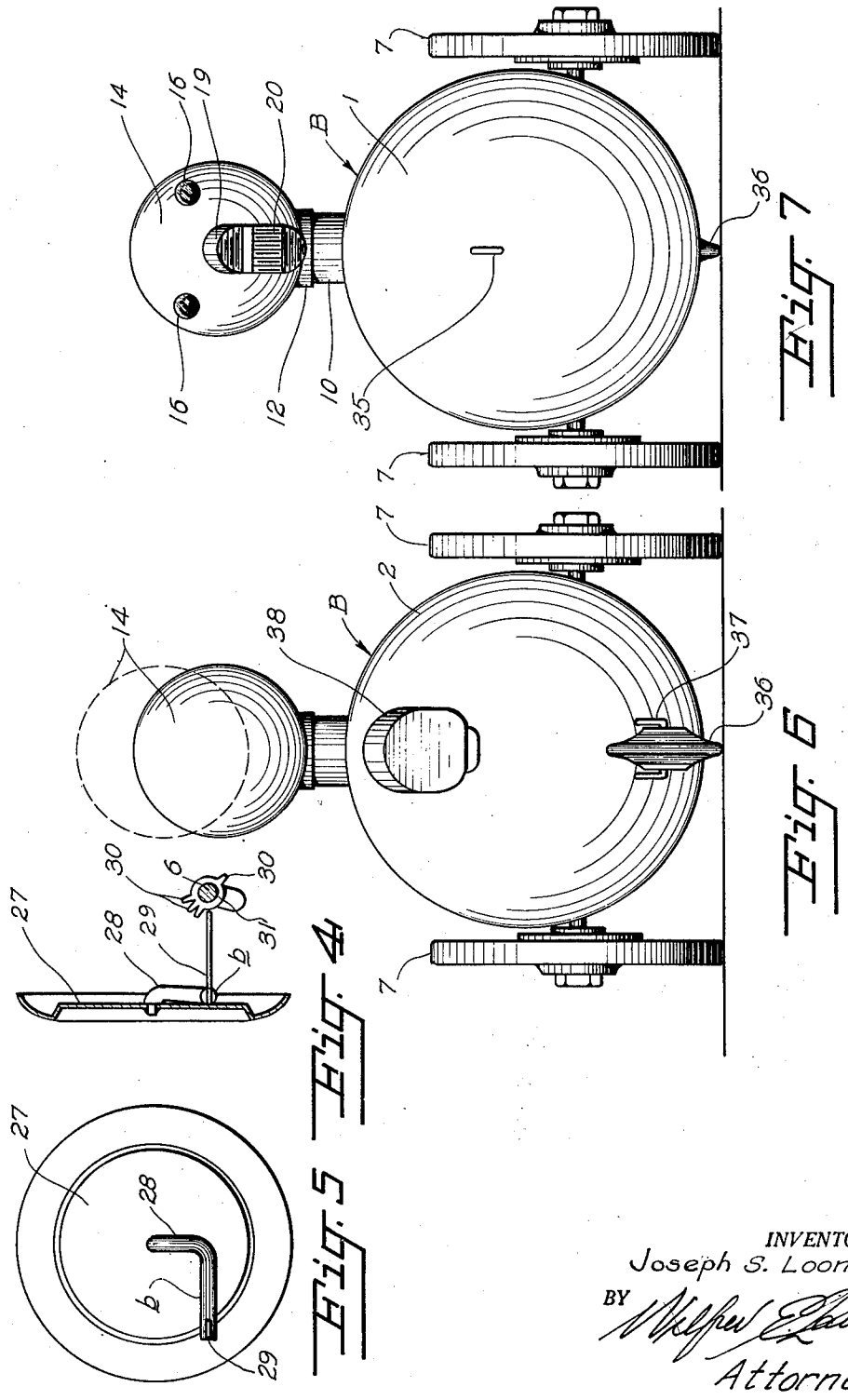


Fig. 7

Fig. 6

Fig. 4

Fig. 5

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ANIMATED TOY

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Application October 5, 1945, Serial No. 620,519

3 Claims. (Cl. 46—98)

1

This invention relates to an animated toy and it is a particular object of the invention to provide a device of this kind of a portable type and which includes movable parts that are caused to be put into motion when the device is in transit.

It is also an object of the invention to provide a device of this kind which is in simulation of a fowl or other living thing and wherein the device embodies a body member and a head member assembled in a manner whereby movement is imposed to one of said members relative to the other when the device is in transit.

A still further object of the invention is to provide a device of this kind provided with means for producing an audible sound when the device is in transit and which sound is preferably in imitation of the vocal sound of the original of which the device is in simulation.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved animated toy whereby certain important advantages are attained, as will be hereinafter more fully set forth.

In order that my invention may be better understood, I will now proceed to describe the same with reference to the accompanying drawings, wherein:

Figure 1 is a view in side elevation of a toy constructed in accordance with an embodiment of the invention;

Figure 2 is a sectional view taken substantially on the line 2—2 of Figure 1;

Figure 3 is a vertical sectional view, taken lengthwise through the device as illustrated in Figure 1 at substantially the transverse center thereof;

Figure 4 is a detail fragmentary sectional view of the sound creating means as herein embodied;

Figure 5 is a view in front elevation of the diaphragm as herein embodied in the sound creating means;

Figure 6 is a view in rear elevation of the device as herein embodied; and

Figure 7 is a view in front elevation of the device as herein embodied.

In the embodiment of the invention as illustrated in the accompanying drawings, B denotes an egg-shaped body member having the smaller end portion rearwardly disposed. This body member B is divided in advance of its longitudinal center into two sections 1 and 2. The front section 1 is bowl-like and the open face of the bowl of the section 1, when said sections 1 and 2 are assembled, opens into a relatively large chamber 3 provided in the front portion of the section 2. This chamber 3 has the central portion of its inner wall formed to provide a chamber 4 which constitutes a sound box for a purpose to be hereinafter more particularly referred to.

2

The meeting edge faces of the sections 1 and 2 are so rabbeted, as at 5, to interlock so that in the assembly of the sections 1 and 2, the same may be effectively maintained in desired relation. This securement may be maintained by adhesion, friction, or otherwise as may be preferred as the particular means for securing the sections 1 and 2 together forms no essential part of the present invention.

Disposed transversely through the body member B, and preferably at the rear inner open portion of the front section 1, is a rotatable shaft or axle 6. This shaft or axle 6 extends slightly outwardly beyond the opposite sides of the body member B and to said extended portions are fixed for rotation therewith the ground-engaging wheels 7 of such dimensions and design as may be preferred.

The central portion of the shaft or axle 6 is offset to provide a crank 8 of desired throw and which crank is received within the diametrically opposed slots 9 provided in the lower or inserted end portion of an elongated tubular member 10. This tubular member 10 is of desired dimensions and is of a length to have its upper or outer end portion at all times disposed outwardly beyond the body member B and said tubular member 10 is freely directed through an opening 11 in the upper portion of the front section 1, the wall a of which is downwardly enlarged so that the tubular member 10, as it moves up and down as permitted by the crank 8, will also be allowed to have the necessary rocking movement.

The upper or outer end portion of the tubular member 10 is tightly fitted within a substantially radially disposed socket 12 provided in a substantially spherical head member 14 and the forward portion of this member 14, in the upper part thereof, is provided with a pair of spaced sockets 15 into each of which is fitted a transparent capsule 16 having an outer rounded closed end which protrudes beyond the periphery of the head member 14, as is clearly shown in the drawings.

Loosely mounted in each of the capsules 16 is a globular pellet 17 which freely rolls within the capsule 16 so that, as the tubular member 10 is raised and rocked, the pellet 17 will roll to and fro and thus give a grotesque simulation of an eye movement which materially increases the amusement value of the toy.

The forward portion of the head member 14 is provided with a socket 18 which is contained within the adjacent inserted end portion of the tubular member 10. Disposed within the upper end portion of the socket 18, and suitably secured therein by adhesion or otherwise, is an end portion of an elongated member 19. This member 19 is of a length to project a desired distance outwardly and forwardly of the head member 14

and is in simulation of the upper bill of a fowl, such as a duck, which the device in the present embodiment of the invention is adapted to simulate.

Extending within the socket 18 below the member 19 is a second elongated member 20 which, at a desired point inwardly of its inner end, is supported for rocking movement upon a pintle 21 disposed transversely through the head member 14 and the member 20. This member 20 is of a length to extend outwardly beyond the head member 14 and is in simulation of the lower bill of a fowl.

The rear portion of the member 20 has its upper face disposed on a suitable bevel 22 whereby the extent of swinging movement of the outer end portion of the member 20 away from the outer portion of the member 19 is limited.

The portion of the member 20 inwardly of its supporting pintle 21 extends inwardly of the member 10 and is suitably anchored, as at 23, to an end portion of a strand 24, preferably of metal, possessing requisite rigidity and flexibility. This strand 24 extends inwardly and downwardly of the member 10 and out through a suitably positioned opening 25 provided in the wall of the member 10 and anchored, as at 26, to the front section 1 of the body member B.

This strand 24 is of such a length and also of such rigidity to cause the outer or bill portion of the member 20 to have closing movement with respect to the member 19, as the member 10 moves outwardly of the body member B, and to have movement in the opposite direction when the member 10 has returning movement within the body member B. This movement of the member 20 serves to further increase the simulation of the fowl with corresponding increase in the amusement value of the device.

Snugly engaged within the inner portion of the bowl 3 of the rear section 2 and overlying the chamber 4 is a metallic diaphragm 27. Suitably secured to the diaphragm 27 at the axial center thereof is a goose-neck bar 28 including a laterally directed part *b*. The outer portion of this part *b* has secured thereto an end portion of a flat spring 29 which is disposed toward the axle or shaft 6.

This spring 29 is of a length to have its outer or free end portion intersect the path of travel of the teeth 30 extending outwardly from the agitator member 31 fixed to the shaft or axle 6 for rotation therewith. The teeth 30 of the member 31 coact with the spring 29 to create such vibration of the diaphragm 27 to produce the audible signals desired.

The lower or under portion of the front section 1 of the body member B has disposed through the wall thereof the suitably spaced openings 32 to allow for the escape of the sounds created from the vibration of the diaphragm 27.

The rear portion of the section 2 of the body member B is provided with a pocket 33 of desired dimensions and which, as herein disclosed, opens into the central portion of the chamber 4. This pocket 33 has placed therein a balancing weight 34 to offset the weight of the forward end portion of the device and thereby facilitate the desired travel of the toy.

The means of locomotion of the toy may be manual or mechanical as, of course, the manner whereby the device is put into transit forms no part of the present invention. In the present embodiment of the invention, however, the forward section 1 of the body member B carries a screw-eye 35 to which a tow line is adapted to be secured.

The rear portion of the body member B is normally supported by a rear ground-engaging wheel 36 preferably of a relatively small diameter and which is rotatably mounted upon a U-shaped bracket bearing 37 carried by the rear section 2 and positioned at a point below the axial center thereof.

The rear portion of the section 2 of the body member B also has carried thereby an upstanding block 38 in simulation of a tail for the fowl.

It is to be stated that the various parts of the device as herein included may be colored as desired but it is to be understood that the invention is not to be limited in any way to any particular color scheme.

From the foregoing description it is thought to be obvious that an animated toy constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated.

I claim:

1. A sounding toy comprising a body having a chamber formed therein, a shaft extending transversely of the body through the chamber, supporting wheels upon the outer ends of the shaft, said chamber at one end being of reduced diameter to form a smaller end portion, a vibrating diaphragm overlying the portion of the chamber which is of reduced diameter and secured around its periphery to the wall of the chamber around said reduced portion, a relatively long resilient element connected at one end to the diaphragm and extending toward and terminating short of said shaft, and means carried by and turned with the shaft for intermittently engaging the adjacent end of said resilient element to impart therethrough vibration to the diaphragm.

2. A sounding toy of the character stated in claim 1 wherein the said resilient element is connected with the diaphragm by means of a right angle bar, one end of the bar being secured to the center of the diaphragm and the other end of the bar extending across the face of the diaphragm to one side thereof and having the said end of the resilient element end secured thereto.

3. A sounding toy of the character described in claim 1 wherein the means for intermittently engaging and vibrating said resilient element, comprises a wheel having an interrupted series of teeth projecting radially therefrom.

JOSEPH S. LOONEY.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,595,407	Jones	Aug. 10, 1926
1,625,758	Wynn	Apr. 19, 1927
1,668,005	Dougherty	May 1, 1928
1,701,734	Stephens	Feb. 12, 1929
1,718,346	Freundlich	June 25, 1929
1,890,288	Graf	Dec. 6, 1932
1,894,144	Anderson	Jan. 10, 1933