March 7, 1950 P. WAGNER 2,499,892

AIR PRESSURE OPERATED REVOLVING FIGURE TOY

Filed Jan. 17, 1947

Fig. 1.

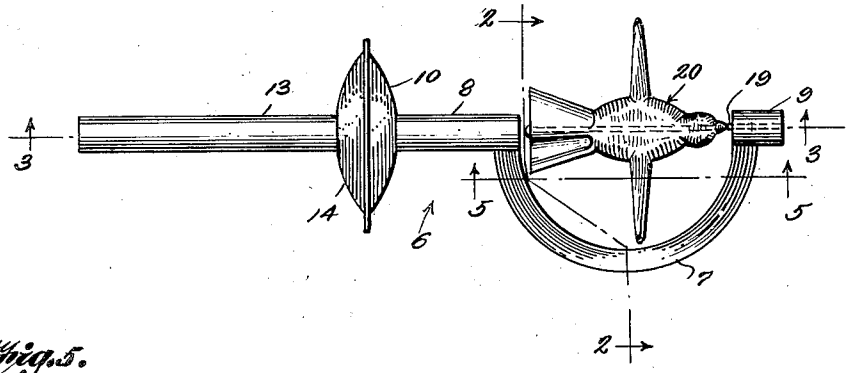


Fig. 5.

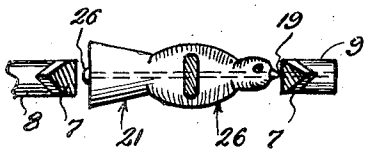


Fig. 2.

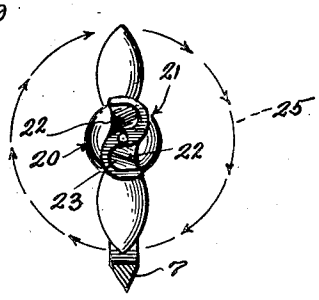


Fig. 3.

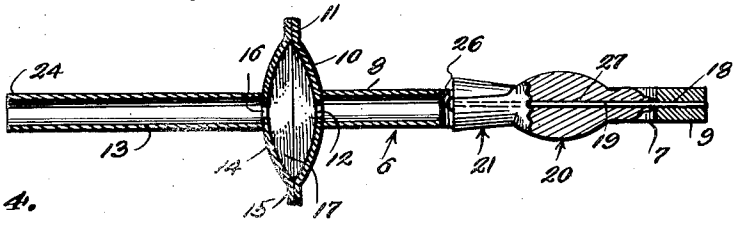
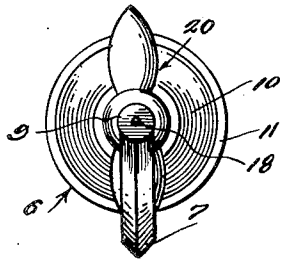


Fig. 4.



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AIR PRESSURE OPERATED REVOLVING FIGURE TOY

Paul Wagner, Turtle Creek, Pa.

Application January 17, 1947, Serial No. 722,664

2 Claims. (Cl. 46—56)

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This invention relates to a novel construction of blow toy and more particularly to a combination audible and mechanically rotatable toy which is so constructed and arranged that by blowing through a part thereof a whistling sound will be produced and the air will thereafter be utilized for actuating a rotatably mounted figure forming a part of the toy.

A particular object of the invention is to provide a toy wherein the impelled air which is initially utilized for producing the whistling sound is thereafter admitted to and passes through a nozzle which is arranged so that the air will be emitted therefrom in a relatively confined stream and ejected at a position and in a direction to rotatably actuate the moveable figure of the toy.

Still a further object of the invention is to provide a toy of extremely simple construction composed of few parts and which is capable of being economically manufactured and sold and which will be durable and efficient in use for its intended purpose to afford both audible and visual amusement, especially to children.

Various other objects and advantages of the invention will hereinafter become more fully apparent from the following description of the drawing, illustrating a preferred embodiment thereof, and wherein:

Figure 1 is a side elevational or top plan view of a preferred embodiment of the toy;

Figure 2 is a cross sectional view thereof taken substantially along a plane as indicated by the line 2—2 of Figure 1;

Figure 3 is a longitudinal sectional view taken substantially along a plane as indicated by the line 3—3 of Figure 1;

Figure 4 is an end view in elevation of the toy looking from right to left of Figure 1, and

Figure 5 is a longitudinal sectional view taken substantially along a plane as indicated by the line 5—5 of Figure 1.

Referring more specifically to the drawing, the improved toy in its entirety and which is designated generally 6 includes an arcuate, substantially semicircular frame 7 of triangular cross section, as seen in Figure 2, which is provided with a tube 8 which projects from one end thereof and a head 9 which projects from the opposite end of the frame and which is disposed substantially in alignment with the tube 8. The tube 8 terminates at its outer end in a disk 10 which may be either formed integral therewith or fixedly secured thereto. The tube 8 joins with the disk 10 substantially centrally thereof and on its

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convex side, said disk 10 being substantially concavo-convex except for an annular peripheral portion 11. The disk 10 is provided with a central opening 12 disposed substantially axially of the bore of the tube 8 and which is of a smaller diameter than said bore.

The toy 6 also includes a tube 13 of substantially the same internal and external diameter as the tube 8 and which is provided with a disk 14 formed integral with or secured to one end thereof and in the same manner that the disk 10 is secured to the tube 8, said disk 14 corresponding in shape, size and construction to the disk 10 and including a flange 15 corresponding to the portion 11 and an opening 16 corresponding to the opening 12. The peripheral portions or flanges 11 and 15 are adapted to be secured in abutting engagement in any suitable manner for connecting the tubes 8 and 13 in spaced apart end-to-end relationship and for providing an enlarged chamber 17 therebetween formed by the concavo-convex portions of the disks 10 and 14.

The head 9 is provided with a restricted bore or opening 18 extending longitudinally therethrough and in which one end of an elongated pin or shaft 19 is anchored. The pin or shaft 19 extends from the head 9 in a direction toward the tube 8 and terminates adjacent thereto to provide a support for a figure, designated generally 20 and which in the embodiment of the invention as illustrated constitutes a simulation of a bird in flight and with the head or forward end of the bird or figure 20 disposed adjacent to the head 9. The figure 20 is provided with a relatively wide tail 21 which is relatively wide and thick and which is provided with corresponding recesses on opposite sides of its axis as defined by the pn or shaft 19 to form corresponding vanes, each designated generally 22 and each of which opens rearwardly of the tail 21 and outwardly thereof and which are provided with concave inner sides 23 which decrease in depth toward the body of the figure 20. The tail 21, looking toward the rear edge thereof, forms a substantially reversed S. The body of the figure 20 may be of any desired shape and size and as illustrated is provided with extended wings simulating a bird in flight, which wings are of a length to permit the figure 20 to revolve on the shaft or pin 19 without the wings contacting the arcuate frame 7.

The opposite, outer end 24 of the tube 13 forms a mouthpiece which is adapted to be disposed in the mouth so that air can be blown through the tube 13 toward the chamber 17. The air thus impelled through the tube 13, through the open-

ing 16 into the chamber 17 and from the chamber 17, through the opening 12 into the tube or nozzle 8 will produce a whistling sound. The air in passing through the nozzle or tube 8 will be directed in a stream toward the open enlarged ends of the vanes 22 so as to enter said vanes and to strike the inwardly tapered concave surfaces 23 thereof by which the air is deflected laterally from the vanes. The surfaces 23 in deflecting the air laterally will have a fluid pressure exerted thereon by the air to cause the vanes 22 and the entire figure 20 to revolve in the direction as indicated by the arrows 25 in Figure 2 so that the toy 6 will afford both an audible and visual amusement to the operator. The pin or shaft 19 is preferably provided with a head 26 at its rear end which cooperates with the frame head 9 for retaining the figure 20 thereon and within the frame 7, said figure being mounted to rotate freely on the shaft or pin by having said shaft or pin disposed relatively loose within the axial bore 27 of the figure or body 20, through which the pin or shaft extends.

Various modifications and changes are contemplated and may obviously be resorted to, without departing from the spirit or scope of the invention as hereinafter defined by the appended claims.

I claim as my invention:

1. In a toy of the character described, a tube, an arcuate frame having one end thereof projecting from the tube adjacent one of its ends and provided with a head at the opposite end of said frame disposed substantially in alignment with the tube, a shaft disposed longitudinally in the frame and axially of the tube having one end anchored in said head, and a figured body member rotatably mounted on said shaft for rotation in the frame on its longitudinal axis and having vane portions at one end thereof disposed adjacent the aforementioned end of said tube to be rotated by air emitting therefrom.

2. A toy as in claim 1, said figured body being shaped to simulate a bird in flight and the tail portion thereof being provided with concave inwardly tapered oppositely facing surfaces forming said vanes.

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