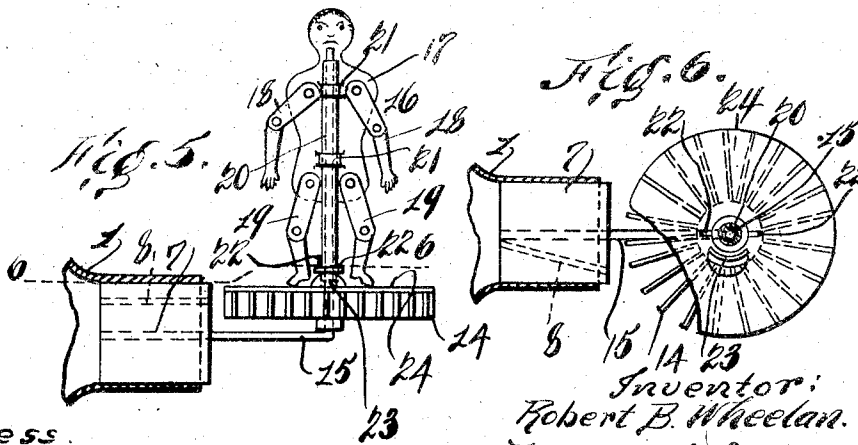
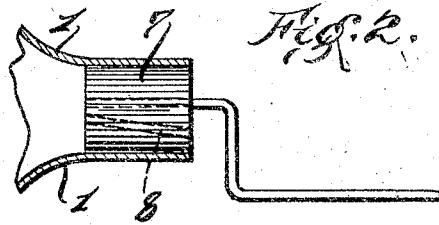
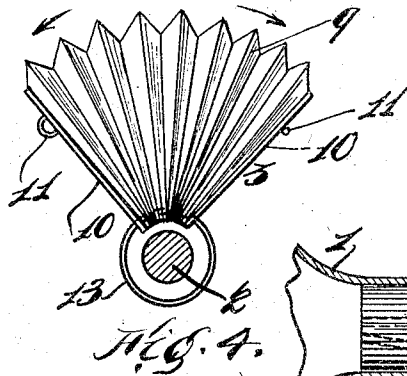
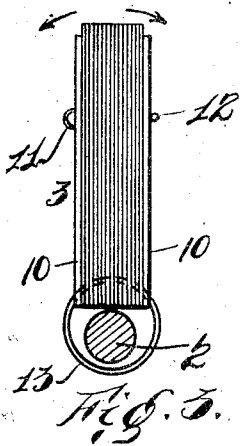
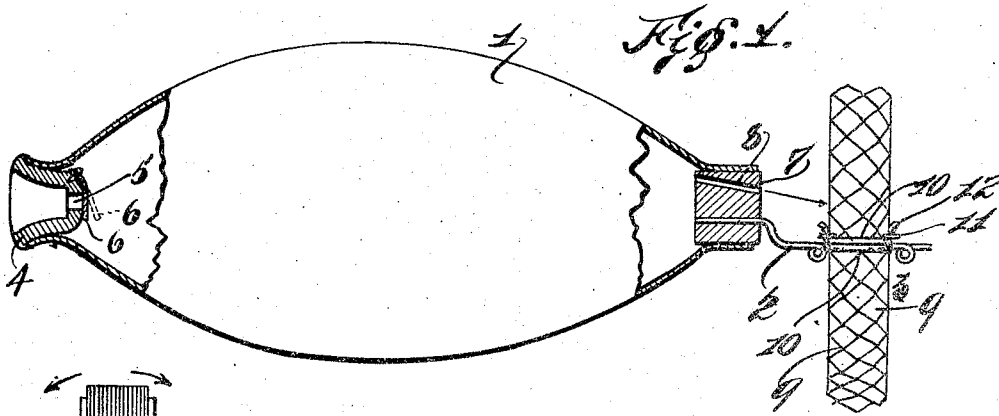


R. B. WHEELAN.
TOY BALLOON.
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1,180,681.

Patented Apr. 25, 1916.



Witness
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TOY BALLOON.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ROBERT B. WHEELAN, a citizen of the United States of America, residing at Los Angeles, Los Angeles county, State of California, have invented certain new and useful Improvements in Toy Balloons, of which the following is a full, clear, and exact description.

This invention relates to improvements in toy balloons, the object being to provide an amusement device simulating a balloon in combination with a movable device operable by air escaping from the balloon or inflatable bag, the entire device being foldable, that is to say, the inflatable bag and the movable device carried thereby can, when not in use, be folded into a small package.

I will now proceed to describe my invention in detail, the essential features of which will be summarized in the appended claims, reference being had to the accompanying drawing, forming part hereof, wherein—

Figure 1 is a side elevation, partly in section, of my improved toy; Fig. 2 is an enlarged section plan view of the exhaust end of the inflatable bag, a portion of the support for the movable element being also indicated; Fig. 3 is an end view illustrating the rotatable fan as folded; Fig. 4 is a side view illustrating the fan as partly extended for use; Fig. 5 is a side elevation of my invention embodied in another form, a portion of the inflatable bag being illustrated in section; and Fig. 6 is a sectional plan view thereof, the section being taken on a line 6—6 in Fig. 5.

As herein illustrated, my improved toy comprises an inflatable bag or balloon 1, made of rubber or other suitable material, carrying a support 2, which in turn carries a movable element which in this instance consists of a fan or pin wheel 3.

One end of the bag 1 is provided with a plug 4 having an opening 5 protected by a valve 6 which opens inwardly to permit the bag to be inflated, but prevents the escape of air through said opening 5. The opposite, or exhaust end, of the bag 1 is provided with a plug 7 provided with an exhaust opening 8 through which air will escape. The plug 7 carries a support 2 upon which a rotatable fan (in this instance) is located. When the bag 1 is inflated, the fan 3 will be set in motion or will rotate, and

will continue to rotate until the air in the bag becomes exhausted.

It will be seen by referring to Figs. 1 and 2 that the duct 8 is angularly disposed with respect to the axis of the balloon. The reason for arranging the exhaust opening in this manner is to force the stream of air against the fan 3 in a direction to cause the said fan to rotate. The fan 3 in this instance consists of a foldable structure made up of a plurality of foldable strips of paper indicated by 9 arranged to be extended into circular formation. Each end of this foldable structure carries a relatively stiff facing 10 (such as cardboard) contacting one with the other when the structure is extended for use. To hold the said structure extended in the form of a circular fan, I provide one of the cardboard facings 10 with eyes 11 and the other with pins 12 which can be snapped into said eyes. When the bag is inflated, air will escape through the opening 8 and rotate the fan 3 which is provided with rings 13 (Figs. 3 and 4) to hold it upon the support 2. The object of employing the foldable fan 3 is to permit the toy to be packed into a small space. When not in use, the fan 3 can be folded, as shown in Fig. 3, without being removed from the support 2. As the bag 1 can also be folded, the whole device can be packed in a small box.

Figs. 5 and 6 illustrate another form of my invention, comprising a rotary fan or wheel 14 carried by a support 15 which is in turn carried by the plug 7 in the bag 1. Air from the bag is directed against the fan 14 through the exhaust opening 8. The support 15 also carries a figure 16 made out of thin flat paper, such as cardboard or other suitable material. The body 17 of the figure has pivotally connected thereto jointed arms 18 and legs 19. The figure 16 is carried by a vertically movable tube, preferably paper 20, which is engaged by cut out strips 21 on the body 17. The lower end of the tube 20 carries pins 22, 22, which can be made of wood, to be engaged by a cam 23 on a thin plate 24 carried by the fan 14. When the fan 14 is rotated the plate 24 will rotate, causing the cam 23 to strike the pins 22, thereby raising the tube 20 and the figure 16 thereon. When the cam 23 leaves the pins, the figure and tube will drop. The rotation of the fan will cause

the figure 16 to rapidly move up and down, thereby producing the action of a dancing figure.

Having now described my invention, what I claim and desire to secure by Letters Patent is:

1. A toy consisting of an inflatable bag, having an opening in each end thereof, a check valve in one of said openings to admit air to said bag but to prevent the escape of the air through the said opening, a support carried by said bag adjacent the other opening and a movable element carried by said support arranged to be set in motion by air escaping through the exhaust opening.

2. A toy consisting of an inflatable bag, having an inlet opening in one end thereof and an exhaust opening in the other end thereof, said exhaust opening being set at an angle relatively to the axis of the bag, a check valve in said inlet opening arranged to permit the admission of air to said bag, but to prevent the escape of air through said inlet opening, a support carried by said bag, and a rotary element carried by said support arranged to be kept in motion by air escaping through said exhaust opening.

3. A toy consisting of an inflatable bag, having an inlet opening in one end thereof and an exhaust opening in the other end thereof, said exhaust opening being set at an angle relatively to the axis of the bag, a check valve in said inlet opening arranged to permit the admission of air to said bag, but to prevent the escape of air through said inlet opening, a support carried by said bag, a foldable rotary fan carried by said support arranged to be set in motion by air escaping through said exhaust opening, and means to hold said fan extended when in use.

4. A toy consisting of an inflatable bag, having an inlet opening in one end thereof and an exhaust opening in the other end thereof, said exhaust opening being set at an

angle relatively to the axis of the bag, a check valve in said inlet opening arranged to permit the admission of air to said bag, but to prevent the escape of air through said inlet opening, a support carried by said bag, and a movable element carried by said support arranged to be set in motion by air escaping through said exhaust opening.

5. A toy consisting of an air-reservoir provided with an opening for the admission of air and an exhaust opening, a dancing figure carried by said air-reservoir, and means arranged to be operated by air escaping through said exhaust opening to actuate said dancing figure.

6. A toy consisting of an air reservoir provided with an opening for the admission of air, said reservoir being also provided with an exhaust opening, a support carried by said reservoir, a rotatable fan carried by said support operable by air escaping through said exhaust opening, a figure carried by said support arranged for a reciprocating vertical movement, and means operable by said fan to impart to said figure said vertical motion.

7. A toy consisting of an air reservoir provided with an opening for the admission of air, said reservoir being also provided with an exhaust opening, a support carried by said reservoir, a rotatable fan carried by said support operable by air escaping through said exhaust opening, a figure carried by said support arranged for a reciprocating vertical movement, a plate carried by said fan, a cam carried by said plate, and means carried by the figure to be engaged by said cam when said plate is rotated.

Signed at New York city, N. Y., this 14 day of January, 1916.

ROBERT B. WHEELAN.

Witnesses:

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