May 7, 1929. J. S. FRIDOLPH 1,712,074

TOY AEROPLANE

Filed April 4, 1928

Fig. 1.

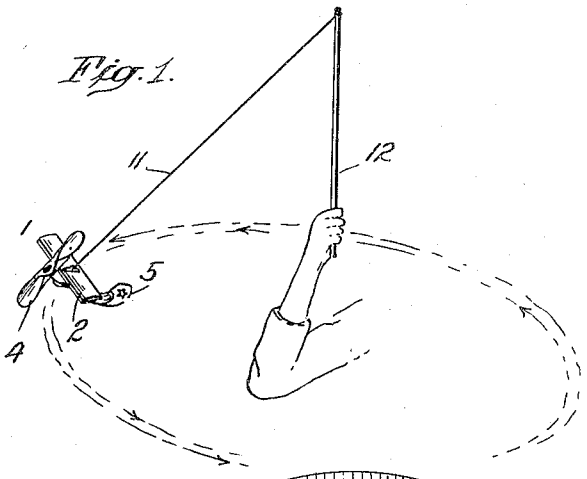
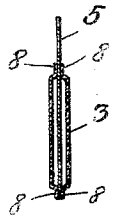


Fig. 5.



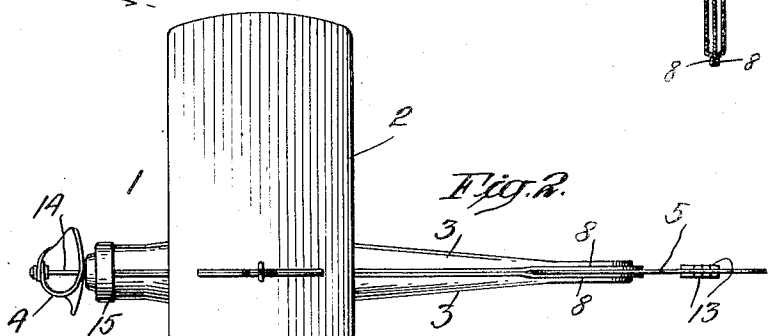


Fig. 2.

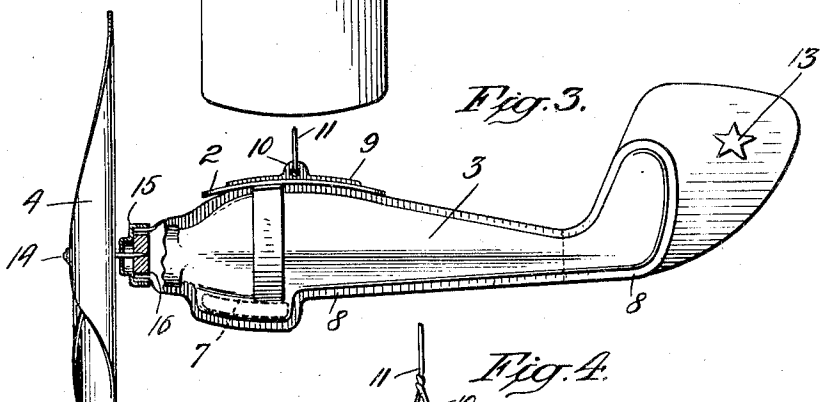


Fig. 3.

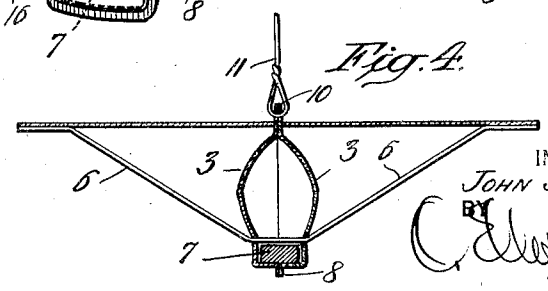


Fig. 4.

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UNITED STATES PATENT OFFICE.

JOHN S. FRIDOLPH, OF NEW YORK, N. Y., ASSIGNOR TO THE DE-LITE-US SPRING CLASP CORPORATION, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

TOY AEROPLANE.

Application filed April 4, 1928. Serial No. 267,175.

The object of my invention is to provide a toy of this class which may be spring supported and swung from a stick so as to simulate the movement of an aeroplane when making loops. This and other objects are accomplished by my invention, one embodiment of which is hereinafter more particularly set forth.

For a more detailed description of my invention, reference is to be had to the accompanying drawings, forming a part hereof, in which

Figure 1 is a perspective view showing my improved aeroplane in use.

Figure 2 is a plan view of the same.

Figure 3 is a side elevation with a portion broken away to reveal the structure.

Figure 4 is a cross section through the wing, and

Figure 5 is a cross section through the tail.

Throughout the various views of the drawings, similar reference characters designate similar parts.

My improved aeroplane 1 is provided with a wing 2, a body 3, a propeller 4, a rudder 5 and a strut 6 which connects the ends of the wing with the body and in the bottom of the body and below the strut 6, is placed a weight 7 which fits snug in a recess provided for it.

These various features are assembled with certain peculiarities which will appear below.

The body 3 is composed of two pressed sheets of celluloid united at the edges so as to form a flat seam 8 which extends entirely around the body, except adjacent to the propeller where there is a circular opening which will be described below. The top of the seam 8 is projected so as to form a fin 9 which passes through a corresponding slot in the plane 2 and this fin 9 is given a perforated ear 10 which receives a string 11 mounted at the end of a stick 12 which may be held in the hand of a child and moved with a circular movement so as to make the aeroplane swing, as indicated.

It will be noted that the string 11 is attached opposite the weight 7 and the weight is placed forward of the string so that when the toy is swung through the air, as above described, a correct balance will at all times be maintained and it will swing true.

To further facilitate the proper swing or movement of the aeroplane, the rudder 5 is a simple vertical rudder which is preferably sandwiched in between the halves of the body 3 and the edges 8 press against it, as shown in Figure 2. This rear rudder 5 is fixed and is preferably ornamented by an ornamental feature as a star 13 of a contrasting color.

The propeller 4 is mounted on a pin 14 which passes through a perforated cap 15 and into a smaller wooden plug or disc 16 which is loosely mounted in the cap 15 and in the circular end of the body 3. The purpose of this loose mounting is to provide a little free movement of the plug so that a rattle noise is added to that of the propeller to make the toy more realistic when in use. In the prefered embodiment of my invention, the propeller 4 is very large as compared with the body 3 and the wing 2 because the toy is more realistic when operated with a propeller made this way.

While I have shown and described one embodiment of my invention, it is obvious that it is not restricted thereto, but that it is broad enough to cover all structures that come within the scope of the annexed claims.

Having thus described my invention, what I claim is:

1. A toy aeroplane with a body having parts projecting upwardly, a slotted wing adapted to receive said projecting parts, a string attached to said projecting parts, a strut passing through the body and secured to the ends of the wing, whereby the body and wing are held firmly together and a weight at the bottom of the body disposed with its center of mass in front of the attachment of said string.

2. In a toy aeroplane, a body, an ear upon said body, a string passing through said ear, a weight in the body and at the bottom thereof and disposed entirely forward of the string, a rudder at the rear of the body and a propeller at the front thereof.

3. A toy aeroplane composed of a body, a wing secured to the body, a rudder at the rear of the body, a propeller at the front of

the body and the supporting means for said propeller being loosely mounted so that when it rotates it will rattle.

4. In a toy of the class described, an aeroplane with a body, means on said body for receiving a string to support the same, a weight in the bottom of the body disposed entirely in the front of the point of attachment of said string and a propeller mounted at the front end of the body.

In testimony whereof, I have hereunto set my hand this 31st day of March, 1928.

JOHN S. FRIDOLPH.