Aug 18, 1925.

1,550,413

H. A. ANANIAN

TOY AEROPLANE

Filed Jan. 19, 1924

2 Sheets-Sheet 1

Fig. 1.

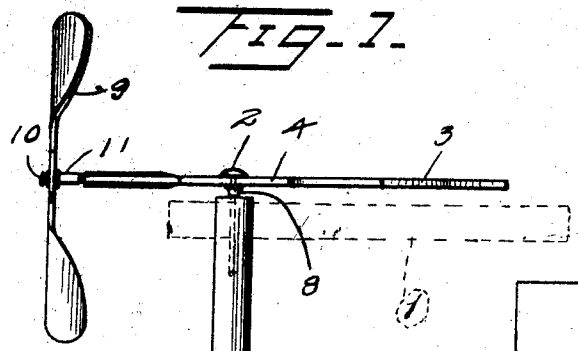


Fig. 2.

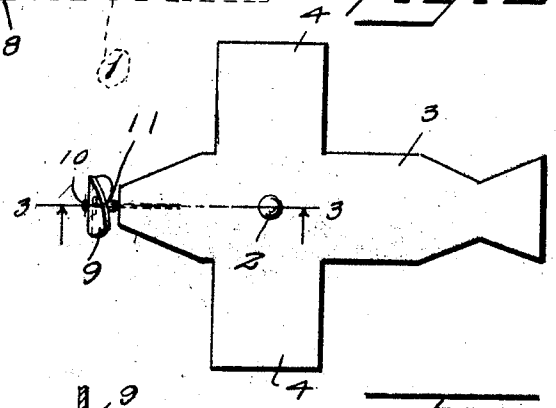


Fig. 3.

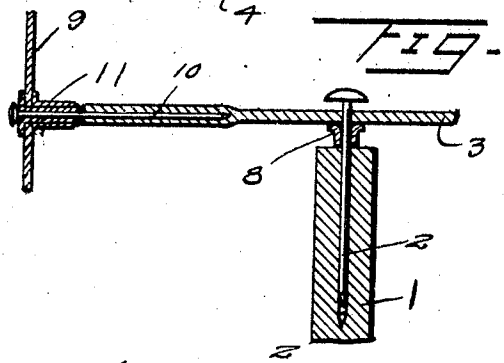


Fig. 4.

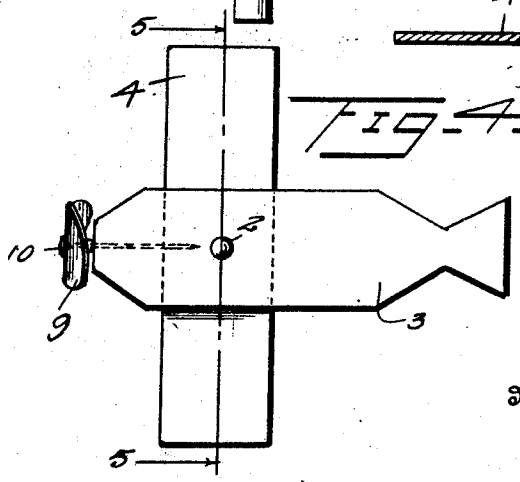
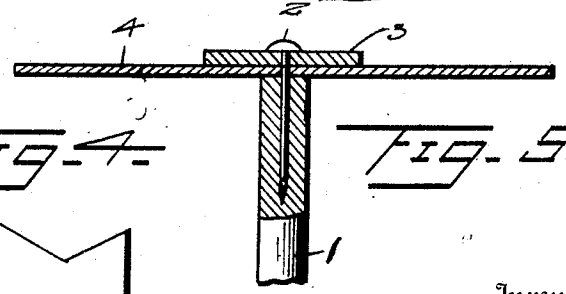


Fig. 5.



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Fig. 6.

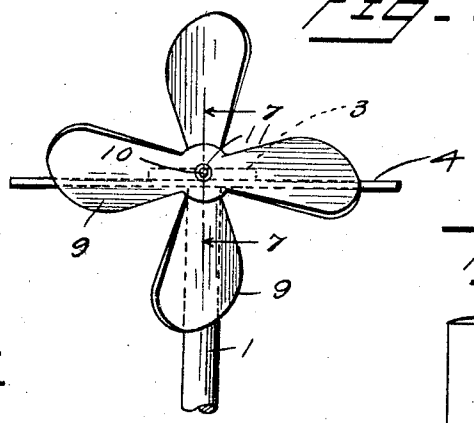


Fig. 8.

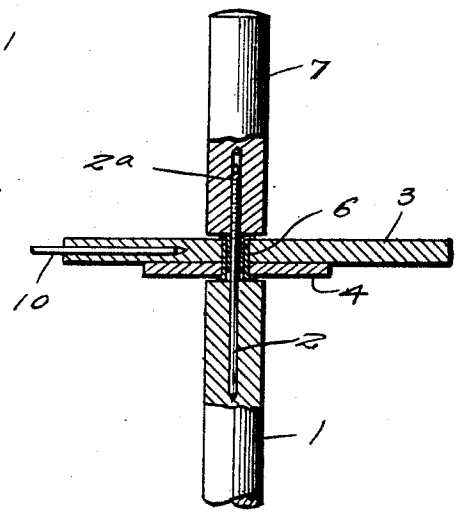


Fig. 7.

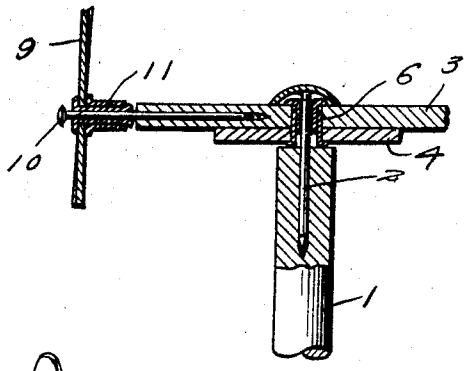


Fig. 9.

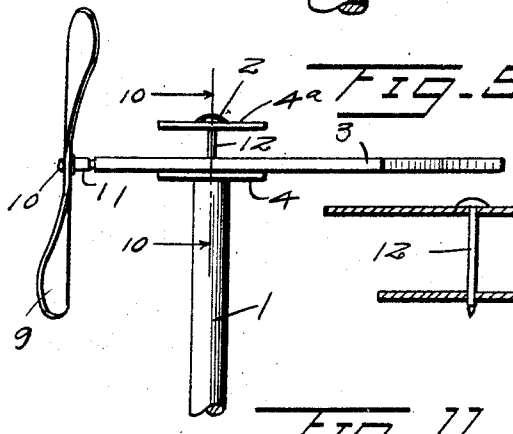


Fig. 10.

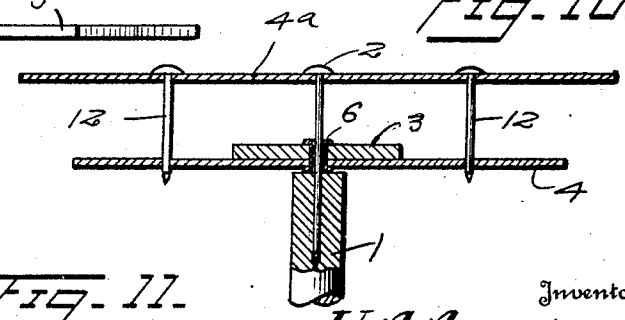
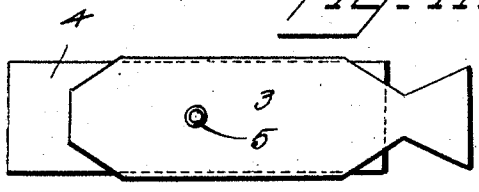


Fig. 11.



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UNITED STATES PATENT OFFICE.

HOHANNIS A. ANANIAN, OF NEW YORK, N. Y.

TOY AEROPLANE.

Application filed January 19, 1924. Serial No. 687,274.

To all whom it may concern:

Be it known that I, HOHANNIS A. ANANIAN, a citizen of the United States, residing at New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Toy Aeroplanes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The primary object of this invention is the provision of a toy for the amusement of children and which incidentally may be utilized as an article of instruction because operable by air currents, either by moving the toy through the air or holding it in a draft or air current, as in either case the toy has a whirling motion imparted thereto by impact of the air on blades angularly disposed in substantially the same manner as the blades of a propeller.

A further object of the invention is the provision of a toy which may be marketed in compact form and readily assembled, and which may be adjusted in a variety of ways according to the effect to be produced, the toy in its general aspect simulating an aeroplane in miniature.

Other objects and advantages will be apparent and suggest themselves as the nature of the invention is understood.

While the drawings illustrate an embodiment of the invention it is to be understood that in adapting the same to meet different conditions and requirements, various changes in the form, proportion and minor details of construction may be resorted to without departing from the spirit of the invention.

Referring to the accompanying drawings forming a part of the application:

Figure 1 is a side view of a toy embodying the invention, the dotted lines indicating a different adjustment of the parts,

Figure 2 is a top plan view of the toy,

Figure 3 is an enlarged sectional detail view on the line 3—3 of Figure 2,

Figure 4 is a view similar to Figure 2 of a modification,

Figure 5 is a detail sectional view on the line 5—5 of Figure 4,

Figure 6 is a front view of the toy showing a modified form of propeller,

Figure 7 is a sectional detail view on the line 7—7 of Figure 6,

Figure 8 is a detail sectional view of a modification,

Figure 9 is a side view of a further modification embodying two planes,

Figure 10 is a sectional detail view on the line 10—10 of Figure 9, and

Figure 11 is a detail plan view showing the parts reduced to compact form.

Corresponding and like parts are referred to in the following description and designated in the several views of the drawings by like reference characters.

The numeral 1 designates a handle which may be of any length and construction and to which the body of the toy is attached and, in the preferred arrangement, the handle 1 is disposed perpendicular to the body of the toy. However, this it not essential, as the handle may be arranged in a plane parallel with the body of the toy, as indicated by the dotted lines in Figure 1. A pin 2 serves to connect the body of the toy to the handle in either adjusted position, and the toy may be held fast to the handle by the pin or the latter may be adjusted to admit of the body of the toy being free to rotate to adapt itself to the direction of the current of air. When the pin 2 is pressed into the handle, the toy is held fast and when drawn outward slightly, the toy is free to rotate.

The body of the toy in outline simulates an aeroplane and comprises a body 3 which is elongated to represent the fuselage of an aeroplane, and side wings 4 corresponding with the plane of a flying machine. The body 3 and side wings 4 may constitute parts of a single piece of sheet material, such as cardboard, as indicated most clearly in Figures 1, 2 and 3, or said parts may be separately formed, as indicated in the remaining views, and in the latter case, the side wings 4 may be adjusted to any angle with reference to the body, or may be placed in line therewith, as indicated in Figure 11, to reduce the size of the toy to compact form so as to economize in space. When the wings and body are separately formed, the pin 2 is utilized as means for connecting them in the required adjusted position. If preferred, an eyelet 5 may be utilized as means for pivotally connecting the body and wings and this eyelet may receive the pin 2, whereby the toy is connected to the handle 1.

As shown most clearly in Figures 7 and

8, a pair of eyelets 6 may be utilized to connect the body and side wings, said eyelets having a telescopic arrangement, the outer flanged ends engaging the outer sides of the body and wings and the inner ends telescoping. In the modification shown in Figure 8, the pin 2 is extended and threaded, as indicated at 2^a, and receives a tip 7 which is threaded thereon, said tip being adjustable to secure the body in the required adjusted position, or admit of the body turning free as required. The tip 7 may be of any design, such as the outline of a pilot, or to represent any object according to the design of the toy. The toy may be in contact with the handle or spaced therefrom, as preferred, and in the latter instance, a spacer 8 is mounted upon the pin 2 and arranged between the handle and the body of the toy.

A propeller 9 is disposed at one end of the body and is pivoted thereto by means of a pin 10. The propeller 9 may be of any construction and comprise any preferred number of blades, as indicated in the several views, Figure 6 showing a propeller having four blades, whereas the propeller illustrated in other views embodies two blades only. In the preferable construction, the propeller is formed of sheet material and to prevent wabbling thereof, it is provided with a hub 11 which consists of a pair of eyelets having the propeller clamped between the flanged ends thereof, said eyelets having a telescopic arrangement and made secure by upsetting the end of the inner eyelet remote from the propeller.

In the modification shown in Figures 9 and 10, a second plane 4^a is provided in addition to the plane 4 and these planes are disposed one above the other in spaced relation and are connected by means of pins 12. A toy constructed in accordance with the showing in Figures 9 and 10 represents a biplane, and one constructed in accordance with the showing in the remaining views is representative of a monoplane.

The toy is manipulated by grasping the handle 1 and moving the same rapidly through the air, the propeller having a whirling motion imparted thereto by impact of the air against the blades thereof, or the toy may be held in a current or draft of air and the same result is effected.

What I claim is:

1. A toy comprising a handle, a body and side wings, a pair of eyelets telescopically arranged and serving as connecting means between the side wings and body, a pin adapted to pass through said eyelets and engage the handle and form connecting means between the body and handle, and a propeller mounted upon the body.

2. A toy comprising a handle, a body, a pin forming connecting means between the body and handle and having an end portion extended and threaded, a tip mounted upon the threaded extension of the pin and serving as means to fix the position of the body with reference to the handle, and a propeller carried by the body.

3. In a toy of the character specified, a handle, a body thereon, a propeller, a hub for the propeller comprising a pair of telescoping eyelets having the propeller clamped between the flanged ends thereof, and a pin passing through said hub and pivotally connecting the propeller to the body.

In testimony whereof I affix my signature.

HOHANNIS A. ANANIAN.