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F. W. WEBER

2,074,878

AEROPLANE TOY

Filed March 30, 1936

Fig. 1.

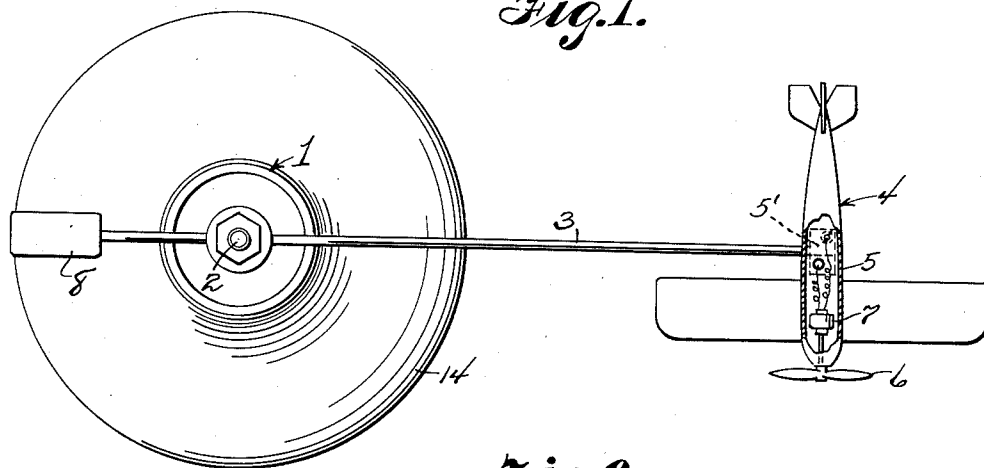


Fig. 2.

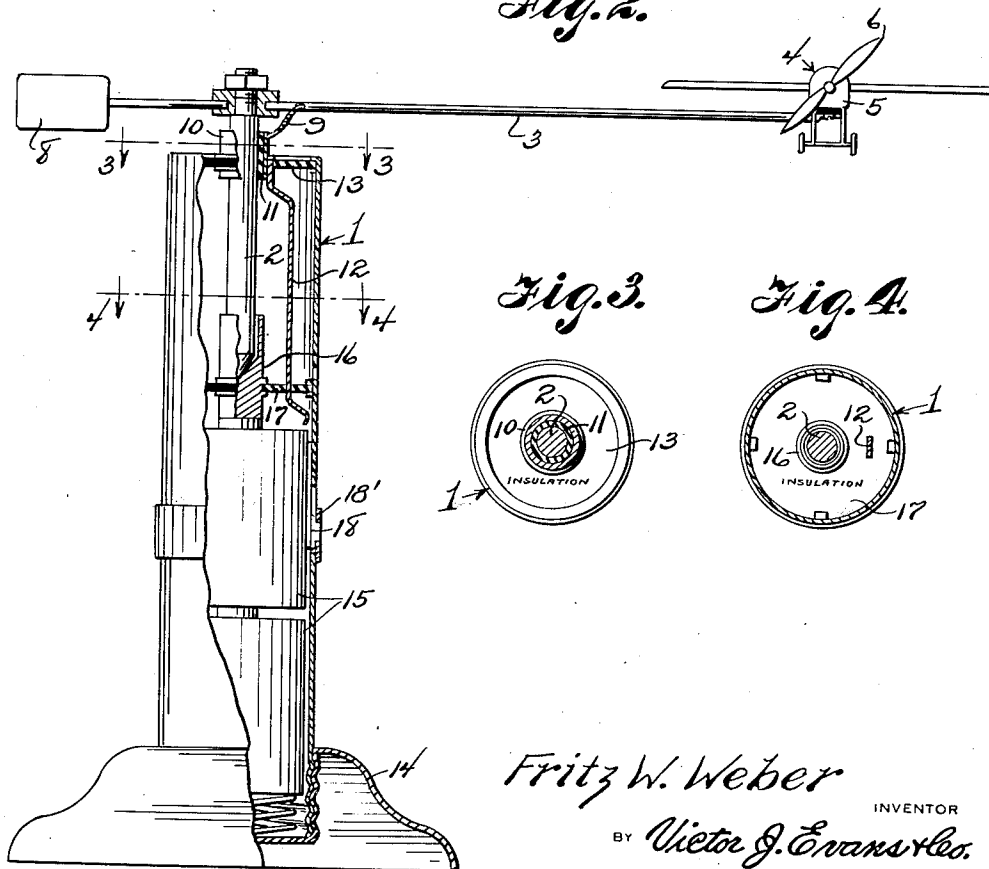


Fig. 3.

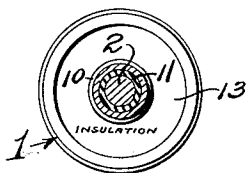
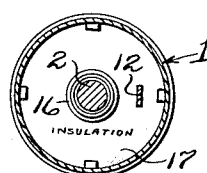


Fig. 4.



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AEROPLANE TOY

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Application March 30, 1936, Serial No. 71,793

1 Claim. (Cl. 272—31)

This invention relates to toy aeroplanes, and has for the primary object the provision of an electrically driven device of this character which will have educational and amusement values for a child, and will be simple, durable and economical to manufacture.

With these and other objects in view, this invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawing, in which

Figure 1 is a top plan view, partly in section, showing a toy aeroplane constructed in accordance with my invention.

Figure 2 is a side elevation, partly in section, illustrating the same.

Figure 3 is a sectional view taken on the line 3—3 of Figure 2.

Figure 4 is a sectional view taken on the line 4—4 of Figure 2.

Referring in detail to the drawing, the numeral 1 indicates a vertically arranged supporting post having journaled thereto a shaft 2 to which an arm 3 is secured. One end of the arm has detachably secured thereto a miniature aeroplane 4, the body of which is indicated by the character 5 and has journaled thereto a propeller 6 connected to an electric motor 7 mounted in the body 5. The electric motor rotates the propeller 6 and the latter propels the aeroplane in flight. The flight of the aeroplane is in a circular path and sustained in flight by the arm 3 secured to the shaft 2 capable of rotation relative to the supporting post. A weight 8 is secured to one end of the arm 3 and to act as a counterbalance for the aeroplane secured to the opposite end of said arm. The arm has an electrical conductor 9 extending therethrough and connects to one of the binding posts carried by and insulated from a plate 5', the latter forming an integral part of the arm 3 and to which the aeroplane is detachably secured. The other binding post is grounded to said plate. The poles of the electric motor are electrically connected to said posts. The shaft 2, arm 3 and aeroplane

are of metallic construction so as to act as an electrical conductor. The conductor 9 is insulated from the arm 3 and is connected to a bearing sleeve 10 forming one of the journals for the shaft 2. The shaft is insulated from the sleeve 10, as shown at 11. The sleeve has secured thereto a resilient contact arm 12 which extends downwardly in the post 1, the latter being of hollow formation having one end closed by an insulated disc 13 which supports the bearing sleeve 10. The post 1 is of a metallic construction and the lower end is threaded into a base 14. Electrical dry cells 15 are mounted in the post. An electric contact is established between said dry cells by a sleeve journal 16 receiving the lower end of the shaft 2. The sleeve 16 is supported to the post by an insulating disc 17. The dry cells are grounded to the post 1, the latter being of metallic construction. A slidable switch 18 is carried by the post and is adapted to be moved into and out of engagement with the contact arm 12 for completing and breaking the electric circuit to the motor 7. The switch includes a band 18' slidable upon the post 1. The base 14 being threaded to the post 1 may be readily removed when it is necessary to renew the dry cells.

Having described the invention, I claim:

A toy comprising a hollow standard provided with a threaded lower end, a base having a threaded standard receiving portion, an electrically operated aeroplane, a supporting arm secured to said aeroplane, an insulating plate secured to the top of the standard, a shaft secured at one end to said arm and extending downwardly through said plate, a second insulating plate carried by the standard spaced downwardly from said first plate, a combined shaft bearing and terminal carried axially by said second plate, the inner end of said shaft rotatably engaging said bearing, a pair of dry cells in said standard below said second plate, one of said cells contacting with said bearing to thereby complete one side of a circuit from said dry cells to said aeroplane, and means carried by said standard and said arm forming the other side of said circuit.

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