J. W. J. FRITSCH.

MINIATURE AEROPLANE.

APPLICATION FILED FEB. 9, 1915.

1,153,155. Patented Sept. 7, 1915.

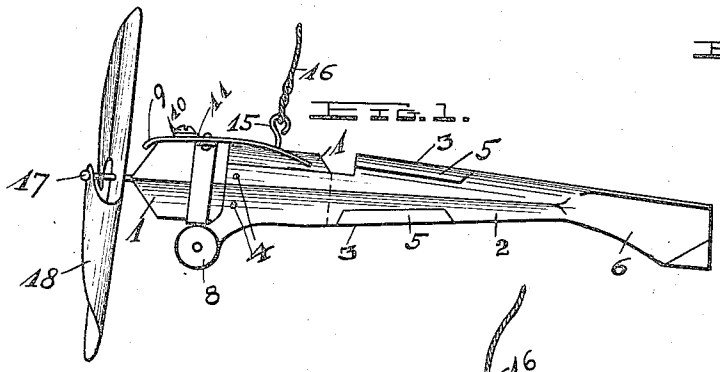


FIG. 1.

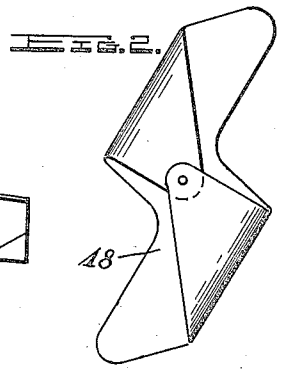


FIG. 2.

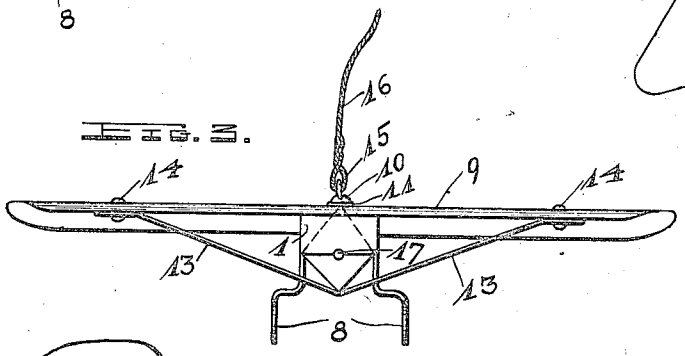


FIG. 3.

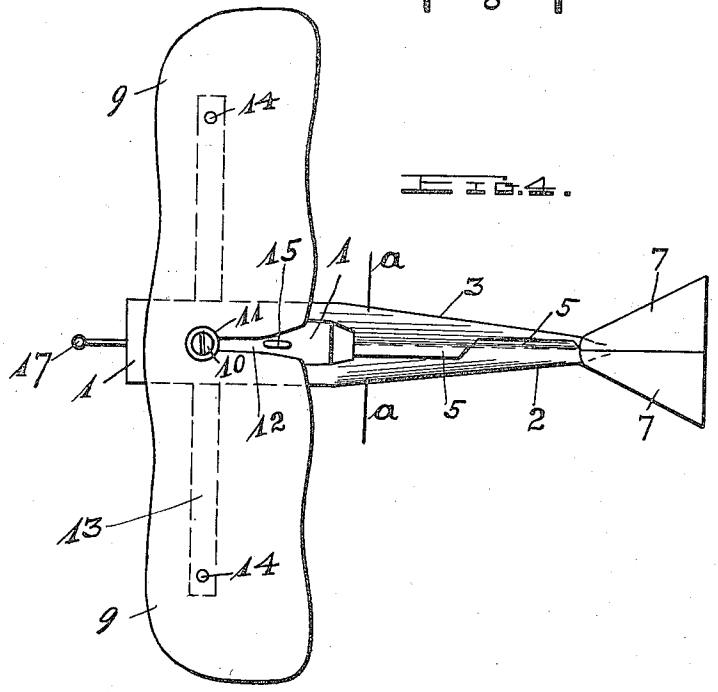


FIG. 4.

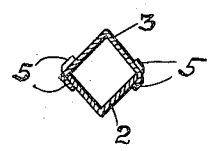


FIG. 5.

Witnesses:

Matilda A. Genske-Fritsch

C. H. VanWinkle

Inventor:

J. William J. Fritsch.

UNITED STATES PATENT OFFICE.

JOHN WILLIAM J. FRITSCH, OF CINCINNATI, OHIO, ASSIGNOR TO MARIE ELIZABETH FRITSCH, OF CINCINNATI, OHIO.

MINIATURE AEROPLANE.

1,153,155. Specification of Letters Patent. Patented Sept. 7, 1915.

Application filed February 9, 1915. Serial No. 7,207.

To all whom it may concern:

Be it known that I, JOHN WILLIAM J. FRITSCH, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Miniature Aeroplane, of which the following is a specification.

My invention relates to improvements in miniature aeroplanes operated by hand; and the objects of my improvements are to provide a light body, having a tail on the rear, a plane on the top and the shapes of carriage wheels formed on its lower part, all arranged to give the whole the appearance of a real aeroplane, with a cord, by which to twirl it; and to provide a propeller turnably attached to the front of the body to turn automatically while twirling the aeroplane.

I attain these objects by the combination, construction and arrangement of devices hereafter described and claimed, and illustrated in the accompanying drawing, in which—

Figure 1 is my aeroplane in side view, hanging on the cord. Fig. 2 is the propeller in front view. Fig. 3 is my aeroplane in front view, hanging on the cord, without propeller. Fig. 4 is my aeroplane in top view without propeller. Fig. 5 is a section through the body on line *a—a* of Fig. 4.

Similar numbers refer to similar parts throughout the several views.

To the center block 1, made of wood, cork, fiber, or the like material, and formed as shown in Figs. 1, 3 and 4, are attached the two side parts 2 and 3 of the hollow body of my aeroplane, as indicated at 4. Flaps 5 are provided on each of the side parts 2 and 3, to unite the side parts to one body. The rear ends of the side parts are flattened, forming the vertical rudder 6, upwardly extending metal being bent sidewise for horizontal rudder, or tail wings, as indicated at 7, see Fig. 4. The front ends of the two side parts are formed to appear as wheels below the front end of the aeroplane, as indicated at 8, see Figs. 1 and 3. The front wings, or plane 9 is attached to the top of the block 1, see Fig. 3, by a screw 10 with a washer 11. The plane 9, having a slot 12, see Fig. 4, is shiftable beneath the washer 11, and is adjustably fastened by the screw 10, a brace 13, see Fig. 3, being attached with its ends 14 to the plane 9 and shiftable below the block 1, reinforcing the plane. An eye-bolt 15 is screwed into the block 1 from the top, to which a cord 16 is fastened for operating my aeroplane. A needle 17 is pushed into the front end of the block 1, forming the axle for the propeller 18.

My aeroplane, hanging on the cord 16, can be twirled above head or to the side of a person, describing circles and giving many more different movements than if it were operated mechanically.

The block 1 can be of wood, cork, fiber, or the like material, while the plane 9, hollow body side parts 2 and 3, and propeller 18 can be of sheet metal, paper, celluloid, or the like.

Having thus described my invention I claim:

1. A miniature aeroplane hanging on a cord by which to be twirled and operated, having a center block, a hollow body attached to said center block flattened on its rear end for rudder and tail wings and formed on its front end to appear as wheels below the front end of the aeroplane, a plane adjustably attached above the center block, and a propeller attached to the front end of the aeroplane turning when the aeroplane is operated by twirling.

2. In a miniature aeroplane, a center block, a hollow body attached to the center block, rear wings formed by the flattened hollow body, wheel-shapes formed below the front part, a plane adjustably attached above the center block, a brace attached to and reinforcing the plane, an eye-bolt screwed into the center block from the top, a cord fastened to the eye-bolt for operating the aeroplane by hand, twirling it at will, and a propeller turnably attached to the front operated by said twirling.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

J. WILLIAM J. FRITSCH.

Witnesses:
MATILDA A. GENTLE-FRITSCH,
C. H. VAN WINKLE.