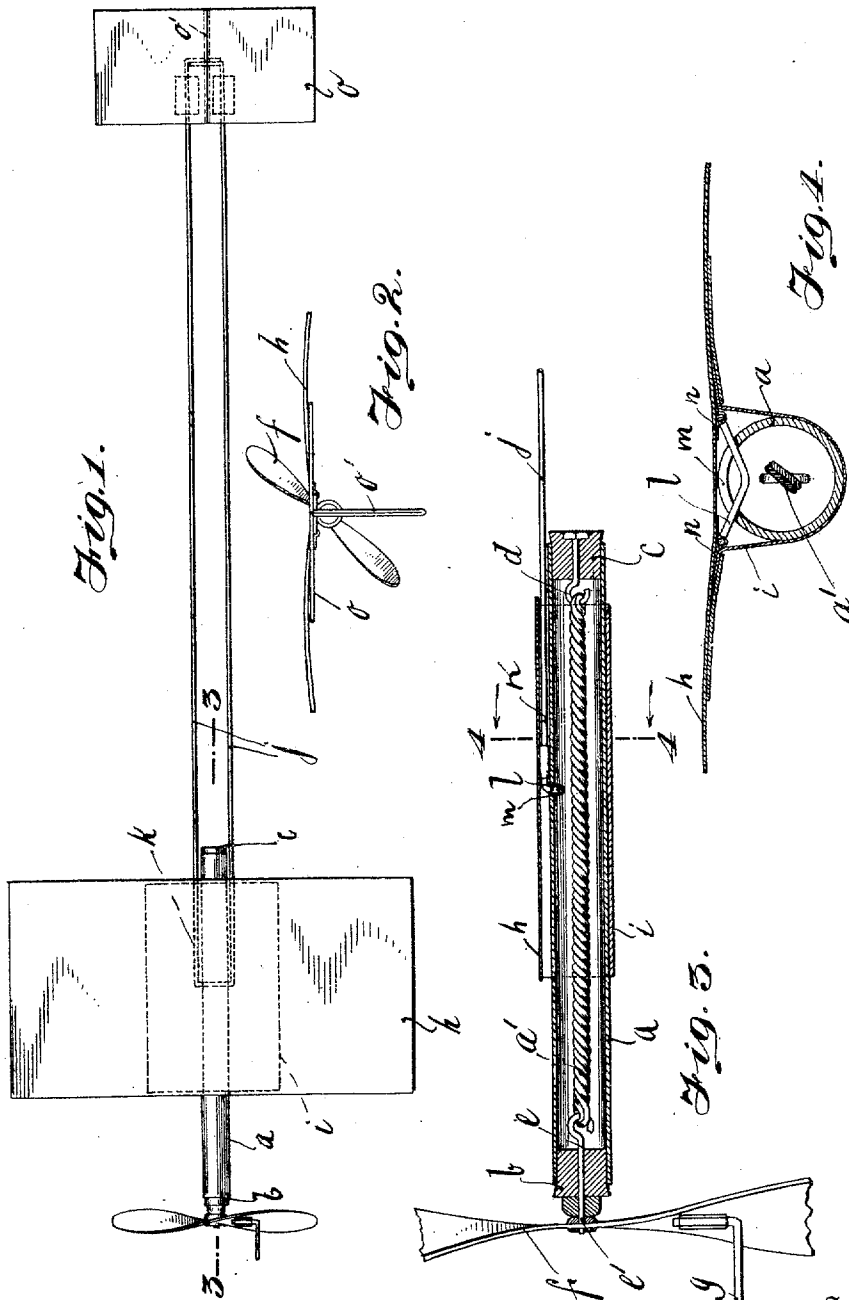


989,067.

Patented Apr. 11, 1911.



Witnesses:
Harry C. Hebig
R. Brockman.

Inventor
Otto Schulze
By his Attorney
Max D. Ordman

UNITED STATES PATENT OFFICE.

OTTO SCHULZE, OF BROOKLYN, NEW YORK.

FLYING TOY.

989,067.

Specification of Letters Patent.

Patented Apr. 11, 1911.

Application filed June 15, 1910. Serial No. 566,988.

To all whom it may concern:

Be it known that I, OTTO SCHULZE, a subject of the German Emperor, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Flying Toys, of which the following is a specification.

The present invention relates to flying toys and is illustrated in the accompanying drawing, in which similar reference letters denote corresponding parts and in which—

Figure 1 is a top plan view; Fig. 2 a rear end view of the flier; Fig. 3 a longitudinal section on line 3—3 of Fig. 1 and Fig. 4 a cross section on line 4—4 of Fig. 3.

The flying toy consists of a tubular frame *a* of card board or other suitable material in the open ends of which corks *b*, *c* or the like are removably fixed. In the rear cork *c* a hook *d* is fixed and in the front cork *a* a hook *e* is rotatively borne, the outwardly projecting end *e'* of which latter hook serves as a shaft for the air propeller *f*. The latter may be made of card board, aluminum, or the like, and is provided with a crank arm or handle *g*. A rubber strip or a bundle of rubber strips *a'* extending through the tube *a* is attached with its ends to the opposite hook portions *d* and *e* and constitutes the torsion spring motor of the flier. Extending above the tubular frame *a* and suitably secured thereto is an aeroplane *h* of paste board or other flexible material, which with its longer side extends crosswise to the frame *a*. The attachment of this plane to the tube may be accomplished in any suitable manner, as for instance, by pasting it to a strip or strips *i* of card board or other suitable flexible material which embrace the tubular frame.

Extending rearward from the tube *a* is the tail of the flier. This tail consists of a wire frame *j*, preferably of aluminum wire, the forward end *k* of which extends between the plane *h* and the upper surface of the tube *a* and has an angular bend *l* which through a slit *m* in the tube engages the latter and is thereby held against longitudinal displacement. This end of the wire frame may be secured in position by card board strips *n* embracing the sides of the frame and pasted to the plane (as shown in Figs. 3—4). Secured to the rear end of the frame is a second plane *o* which is T-shaped and the vertical portion *o'* of which serves as a rudder (Figs. 1—2).

To operate this toy, the propeller is given a number of turns by means of the handle *g*, whereby the rubber strips become twisted around, as shown in Fig. 3. Upon the release of the toy, the latter will be propelled forward, the planes *h*, *o* supporting it in the air and the vertical portion of the T-shaped plane *o* serving as a rudder.

What I claim and desire to secure by Letters Patent is:

In the herein described flying toy, a tubular body having at its rear end a circumferential recess, an aeroplane secured to said tube and a tail carrying wire frame the forward end of which has an angular bend engaging the said recess of the tube and which frame partly extends between the aeroplane and the tube and is secured to the lower surface of the aeroplane.

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

OTTO SCHULZE.

Witnesses:

CHARLES KAISER,
WILLIAM H. BOURNE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."