April 30, 1929. C. E. CARLSEN 1,710,918

AERONAUTICAL DEVICE

Filed Oct. 3, 1927

Fig. 1.

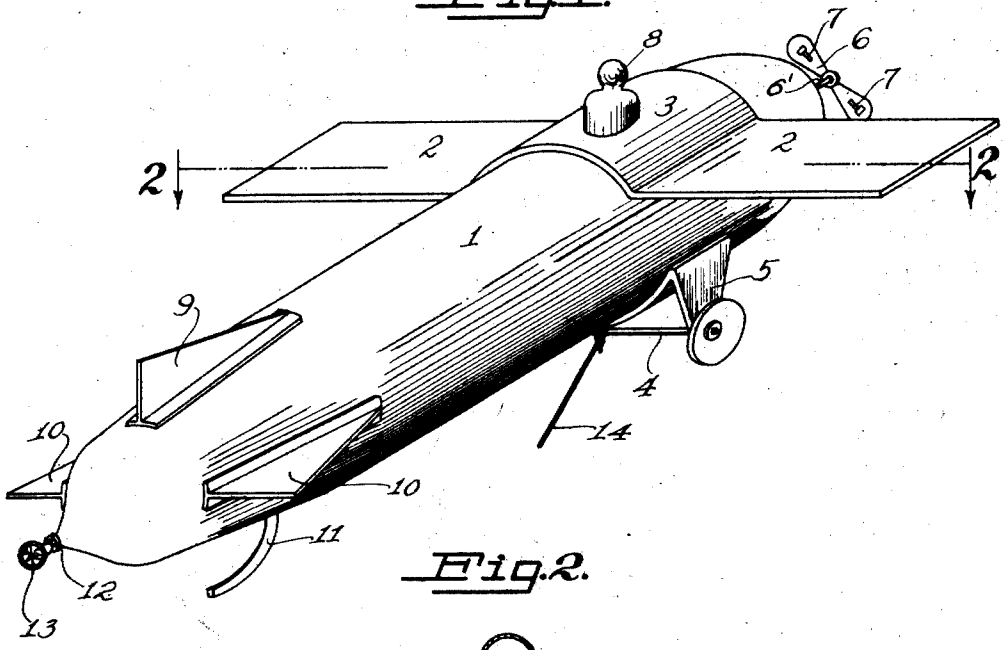
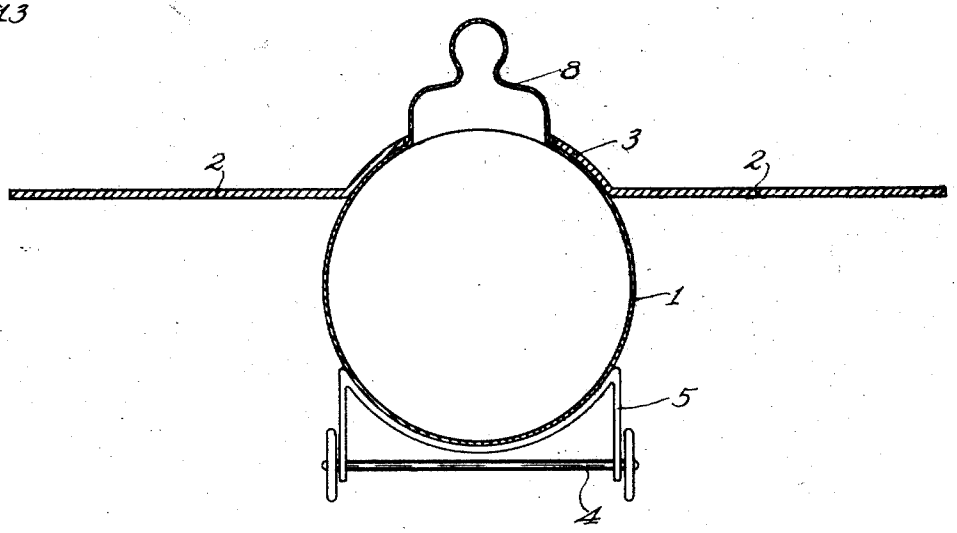


Fig. 2.



INVENTOR.
Carl E. Carlsen.
BY
ATTORNEY.

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UNITED STATES PATENT OFFICE.

CARL E. CARLSEN, OF SAN FRANCISCO, CALIFORNIA.

AERONAUTICAL DEVICE.

Application filed October 3, 1927. Serial No. 223,496.

The present invention relates to improvements in aeronautical devices of monoplane type and "dirigo-plane" character, and more particularly to those of a toy nature adapted for the amusement of children.

Primarily the object of the invention is the provision of an aeronautical toy of monoplane appearance possessing characteristics of both the dirigible and airplane and embodying constructional features making for cheapness and durability.

Constructionally considered, the device comprises a fuselage of usual monoplane outline of a material, such as rubber, adaptable for gas-inflation bearing as an integral part a figure of like inflatable character personating the pilot, wings of fabric or metal bearing centrally a saddle formation adapted to fit and be secured to the fuselage body, a propeller revolubly borne by the nose of the fuselage, reeds or other sound-producing means borne by the blades of the propeller, a landing-gear fitted to and supported by the fuselage body, a tail-skid secured rearwardly to the underside of the fuselage, and stabilizing vanes carried by the tail-end of the fuselage.

While certain of these features would be eliminated in the cheaper constructions, in the more pretentious ones those illustrated would be more faithfully adhered to as affording a more attractive, substantial and realistic design, and one calculated to appeal to those of maturer minds.

Though primarily, the device is intended for an aeronautic toy, it is conceivable that the principle may be of far wider application and of a much more practical character.

In the accompanying one-sheet drawing, forming a part of this specification, and in which similar parts are indicated by like reference characters, throughout;

Figure 1 is a perspective view of an aeronautical toy of monoplane type, in which are embodied the principles of my invention; and

Figure 2 is a transverse section of the device taken on the line 2—2 of Figure 1.

Referring more particularly to the drawings, 1 indicates the inflatable fuselage which preferably comprises a rubber tube or bag, 2 the wings bearing centrally the saddle-like section adapted to fit and be cemented to the fuselage's body, 4 the landing-gear borne by the saddle-like member 5 adapted to fit and be secured to the fuselage body, 6 the propeller revolubly secured as shown at 6′ to the nose of the fuselage, 7 the reeds or other means borne by the propeller blades and operable through air-currents generated through flight of the device for the creation of sounds simulating those of airplanes in flight, 8 the inflatable dummy forming an integral part of the fuselage and occupying the position of pilot, 9 the vertical tail vane, 10 the horizontal tail vanes, 11 the landing-skid, 12 the gas-inlet through which the fuselage is inflated, 13 the valve or other means whereby through the gas-inlet is closed, and 14 the tethering means for holding captive the device.

The various parts in the simpler and cheaper constructions are, preferably, cemented to the fuselage while inflated and, when fully assembled present the appearance shown in Figure 1. Upon deflation, accomplished through the opening of the valve or other means 13 and allowing the gas to escape, the device may be reduced to a small and compact form, in readiness for packing and transportation, and as easily put into condition again for service.

Having thus described my invention, I claim, and desire to secure by Letters Patent:

1. In an aeroplane toy of the class described, a fuselage comprising an elongated gas-envelope, a propeller mounted at one end thereof and an inflating valve mounted at the opposite end, an inflatable projection forming an integral part of said envelope, and wing sections formed from a single piece of material having an intermediate section forming a saddle conforming to the contour of the envelope and cemented thereto and having a central opening through which said envelope projection extends in simulation of a pilot for the device.

2. In an aeroplane toy of the class described, an elongated rubber envelope having means for its inflation, an inflatable projection forming an integral part of said envelope, and wing sections formed from a single piece of material and having a centrally disposed saddle section adapted to conform to the contour of the gas-envelope and providing means for cementing these parts together as a unit, the said saddle section being provided with an opening through which the envelope projection extends in simulation of a pilot for the device.

In testimony whereof I hereby affix my signature, this 28th day of September, 1927.

CARL E. CARLSEN.