F. S. PIERSON.

AERIAL TOY.

APPLICATION FILED SEPT. 3, 1914.

1,144,914. Patented June 29, 1915.

Fig. 1.

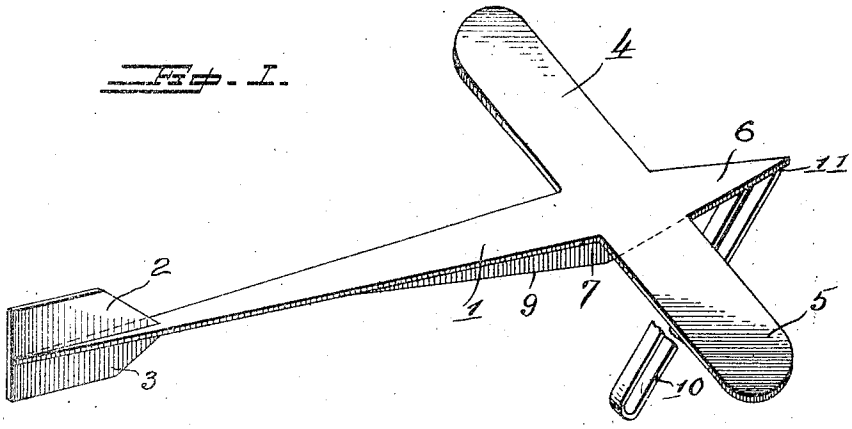
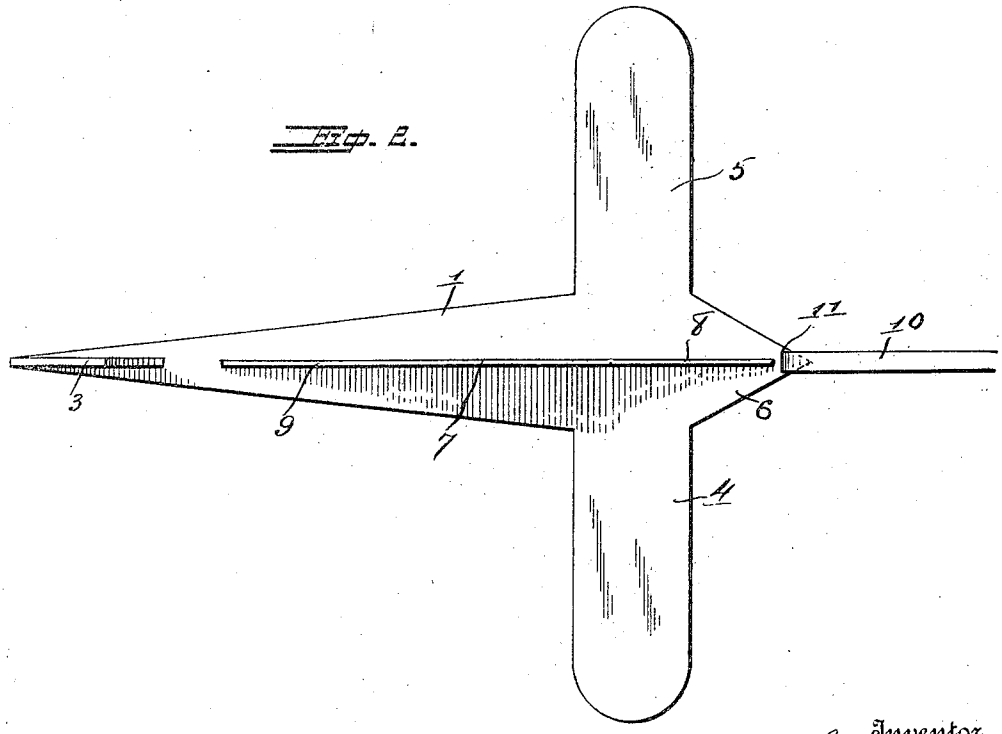


Fig. 2.



Inventor

Frank S. Pierson.

Witnesses

Edw. S. Hall.

By Richard B. Owen.

Attorney

UNITED STATES PATENT OFFICE.

FRANK S. PIERSON, OF NEW YORK, N. Y.

AERIAL TOY.

1,144,914. Specification of Letters Patent. Patented June 29, 1915.

Application filed September 3, 1914. Serial No. 860,064.

To all whom it may concern:

Be it known that I, FRANK S. PIERSON, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Aerial Toys, of which the following is a specification.

My invention relates to aerial projectiles and more particularly to a toy aeroplane adapted to be launched from the hand of the operator and propelled through the air.

The object of my invention is to provide a toy of this class which will be simple in construction, durable, strong and cheap to manufacture, and one which is both instructive and amusing in its use.

With the above and other objects in view my invention resides in the construction, combination and arrangement of parts as set forth in the following specification and illustrated in the accompanying drawings, in which:—

Figure 1 is a perspective view of a toy aeroplane embodying the preferred form of my invention. Fig. 2 is a bottom plan view of the same.

Similar reference characters indicate similar parts throughout the various views of the drawings.

Referring more particularly to the drawings in which the preferred form of my invention is illustrated, I provide a toy aeroplane comprising an elongated body portion 1, said body portion 1 converging toward its rear end, and provided at that point with vertical blades 2 and 3, extending above and below the surface of the same. The said body portion 1 is provided adjacent the forward end with laterally extending members comprising planes 4 and 5, and the portion 6 of the body portion 1 extends in front of the planes 4 and 5 to provide a prow for the device and for facilitating its travel through the air. For the purpose of strengthening the body portion 1 and also for the purpose of providing a keel or guiding plane I provide a rib 7 on the under side of the body portion 1 of the device, said rib extending from the forward end of the device to the rear end and disposed in a central longitudinal line thereof. In order to reduce friction between the device and the air through which the same is projected, the free marginal edges of the rib 7 converge toward the body 1 from a point substantially intermediate its length to its forward and rear extremities as indicated at 8 and 9 respectively.

From the above it will be noted that I have provided a device which is simple in construction and resembles to a great degree the large aeroplane, and the device it will also be noted is strong and durable.

In the preferred embodiment of my invention I desire to form the same of any light and rigid material, cardboard or light sheet tin being preferred, however, any suitable material may be employed which is both light, strong and durable.

In order to launch and propel this device through the air I provide an elastic element, in the present instance comprising a rubber band 10, said rubber band 10 being fastened at 11 to the prow 6 of the device. When it is desired to launch this device into the air and propel the same, the rubber band is engaged over one finger of one of the hands of the operator, the other hand grasping the rudder or guides 2. Drawing back the device against the tension of the rubber band 10 and releasing the same will cause the device to be launched into the air and propelled therethrough. It is preferable that the rubber band which is utilized for the purpose of propelling the device be secured thereto and be of the smallest possible size so as to not interfere with the gliding of the device through the air.

From the above it is thought that a clear and comprehensive understanding of my invention and its advantages may be had, and while I have shown and described a specific form for my device it is desired that it be understood that changes may be made in the detail structure thereof which do not depart from the spirit and scope of the appended claims.

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

1. A toy of the class described, including a flat tapered body having the forward end thereof formed into a prow, planes integrally formed therewith and extending laterally thereto, said planes being adjacent to and positioned rearwardly of said prow, means associated with the prow to initially impart movement to the device, and a guiding and strengthening rib on the under face and extending throughout the length thereof.

2. In a toy of the class described, comprising a flat body portion, planes formed therewith and extending laterally therefrom, said planes being positioned adjacent the forward end of the body, direction controlling means disposed on the under face of the body portion and extending throughout the length of the same, a prow formed on the forward end of the body, and means carried by the forward end of the device for launching the same through the air.

3. In a toy of the class described, a body portion comprising a flat tapering sheet of cardboard or the like, planes integrally formed therewith and extending laterally therefrom, means for guiding the device during flight comprising a longitudinally disposed rib upon the under surface of the body portion, and launching means comprising an elastic band carried by the forward end of the device whereby stretching of the elastic band and releasing the body of the device will propel the same through the air.

4. As an article of manufacture, a toy including a flat tapering body having balancing planes formed integrally therewith and extending laterally thereto adjacent the forward end, a guiding and strengthening rib carried by the under face of said body, and an elastic element carried by the forward end of said body to initially impart movement to the same.

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

FRANK S. PIERSON.

Witnesses:
JOHN LINK,
MAE PIERSON.