Oct. 4, 1932. T. F. SCOTT 1,880,501

TOY AIRPLANE

Filed Nov. 23, 1931

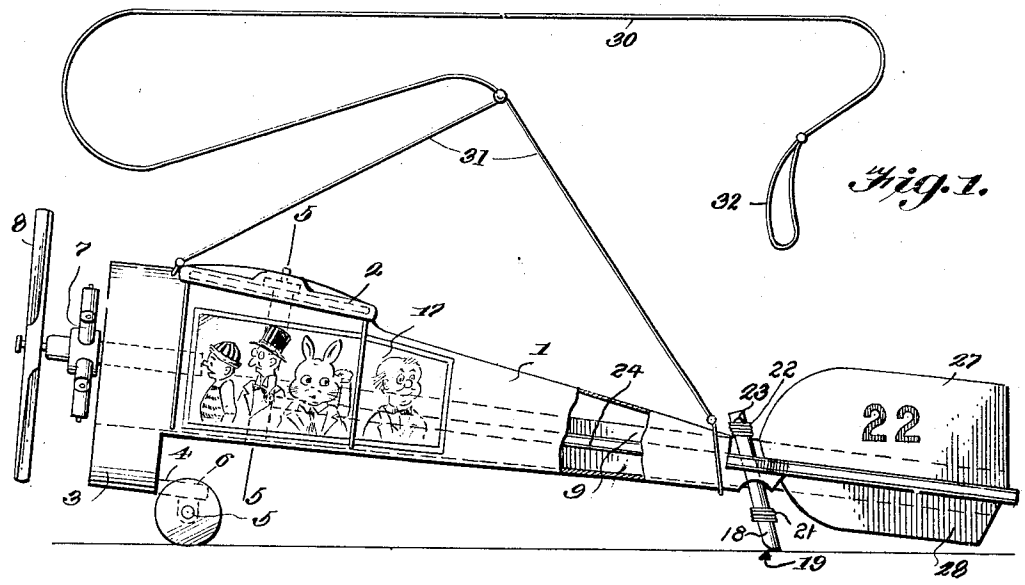


Fig. 1.

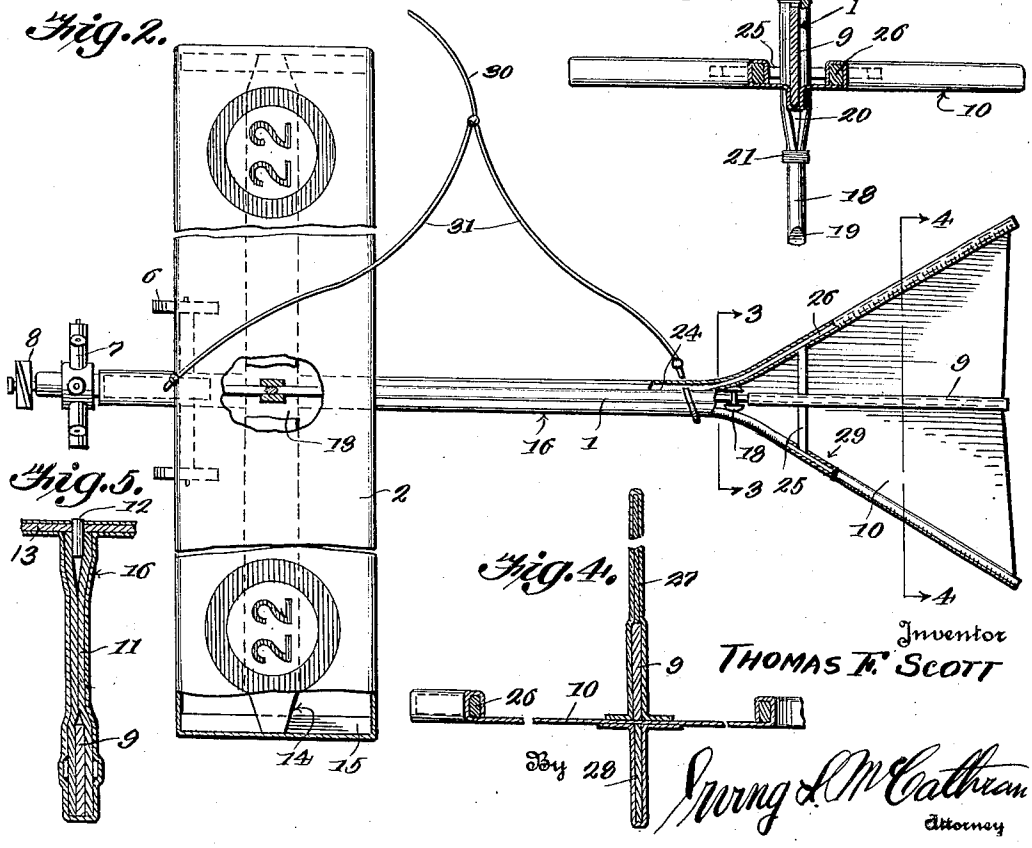


Fig. 2.

Fig. 3.

Fig. 5.

Fig. 4.

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Patented Oct. 4, 1932 1,880,501

UNITED STATES PATENT OFFICE

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TOY AIRPLANE

Application filed November 23, 1931. Serial No. 576,901.

This invention relates to toy airplanes and has for its object the production of a simple and efficient construction which will be light and durable and which may be manufactured at a minimum cost.

Another object of this invention is the production of a simple and efficient toy airplane which is provided with a special tail structure especially designed for cheapness of structure and also especially designed for stability.

A further object of this invention is the production of a simple and efficient means for forming and bracing the tail piece of the toy airplane so as to provide a wide flaring fin at the rear end of the body to add stability to the airplane and facilitate the proper sailing thereof through the air.

With these and other objects in view, this invention consists in certain novel constructions, combinations and arrangements of parts as will be hereinafter fully described and claimed.

In the drawing:

Figure 1 is a side elevation of the toy airplane, a portion thereof being shown in section;

Figure 2 is a top plan view of the toy airplane, certain portions thereof being shown in section;

Figure 3 is a section taken on line 3—3 of Figure 2;

Figure 4 is a section taken on line 4—4 of Figure 2; and

Figure 5 is a section taken on line 5—5 of Figure 1.

By referring to the drawing, it will be seen that 1 designates the fuselage or body of the airplane which supports near the front end thereof the transversely extending wing structure 2. The body 1 is provided with a depending forward portion 3 which carries a rearwardly extending arm 4, which rearwardly extending arm 4 supports the axle 5 upon which the wheels 6 are carried. The forward end of the body 1 carries an imitation air-cooled engine 7 and a suitable rotating propeller blade 8.

The body or fuselage 1 comprises a longitudinally extending plate 9 which extends the full length of the fuselage or body 1 and extends well into the tail 10. The wing structure 2 is braced upon the body by means of a pair of vertically extending bracing members 11 which fit upon the opposite sides of the longitudinally extending plate 9 and supports an anchoring pin 12, which anchoring pin 12 extends through the bracing strip 13 carried by the wing structure 2, as shown clearly in Figure 5. The bracing member 13 extends longitudinally of the length of the wing structure 2 and is provided with tapering ends 14 which are secured to the transverse bracing ribs or strips 15 which ribs 15 are secured across the ends of the wing structure 2. The entire wing structure 2, as well as the body 1 is covered with a suitable paper or other covering 16, to provide the desired shape for the wings and body structure. Upon the body structure 1 may be mounted suitable decorative pictures 17, as shown clearly in Figure 1 of the drawing.

A tail skid 18 is secured near the rear end of the body and at the point of junction of the tail piece 10 with the body, and this tail skid 18 is inclined rearwardly toward its lower end and provided with a curved underface 19 upon the lower end of the tail skid. The upper end of the tail skid 18, however, is bifurcated to straddle the plate 9 of the body 1, the bifurcated portion being indicated by the numeral 20. The bifurcated end is wrapped, as indicated at 21, with cord or other flexible means, and is also wrapped at its upper end with a suitable cord or other flexible means 22. A pin 23 also passes through the upper bifurcated end of the tail skid 18.

The tail piece 10 flares outwardly toward its rear end, as clearly shown in Figure 2, and is preferably formed of a pair of bendable strips 24 which extend longitudinally of either side of the body 1, as shown clearly in Figures 1 and 2 of the drawing, from a point near the front end of the body toward a point adjacent the tail skid 18. These bendable strips 24 are then bent to extend upon either side of the tail skid 18 and flare outwardly to constitute side braces for the tail piece 10. A transversely extending bracing

and wedging strip 25 is wedged in between these outwardly flared ends 26 of the bendable strips 24 so as to firmly hold these ends 26 in a flared position. This bracing wedge member 25 extends through the rear end of the plate 9, as shown in Figure 2. A top rudder 27 is formed upon the upper portion of the rear end of the plate 9, as shown in Figure 1, and a lower rudder 28 is carried by the lower portion of the rear end of the plate 9. The upper and lower rudders 27 and 28 extend in a vertical plane and upon either side, above and below the tail piece 10. The tail piece 10, as well as the rudders 27 and 28 are covered by a suitable paper covering 29, as clearly shown in the drawing.

From the foregoing description, it will be seen that a very simple and efficient means has been provided for constructing a toy airplane which will be cheap and durable in its construction. For the purpose of operating the toy airplane, a swinging loop 30 is employed having diverging ends 31 which are secured near the front and rear portions of the body 1. A suitable loop 32 is provided at the end of the swinging cord 30 and in operation, an operator will place his finger through the loop 32 and by swinging the cord 30 around and over his head, the airplane will fly and glide through the air as it is in this manner propelled, and at the same time produce somewhat of a zooming sound, simulating the sound of an airplane motor.

It should be understood that certain detailed changes in the mechanical construction may be employed without departing from the spirit of the invention so long as these changes fall within the scope of the appended claims.

Having described the invention, what is claimed as new is:

1. A toy airplane of the class described comprising a body, having a longitudinally extending plate, said body supporting a wing structure, said wing structure comprising a transversely extending member projecting across the top of said body, end strips secured to said transversely extending member of said wing, a light covering extending over and forming said wing structure and also extending over and forming said body structure, said body structure provided with a pair of longitudinally extending bendable strips, said strips being bent and flared outwardly near the rear end of said body, bracing means interposed between said strips for holding the same in an extended flared position, a web extending between said flared strips and around the same for holding the strips in a taut and braced position, rudder means associated with said tail piece, and a tail skid carried by and extending between the flared ends of said bendable strips.

2. A toy airplane of the class described comprising a longitudinally extending elongated body, a plurality of bendable strips extending upon opposite sides of said body and flared outwardly near the rear end thereof, bracing means interposed between said flared ends, web means extending between said flared ends and over the same for constituting a tail piece, a tail skid having a bifurcated end fitting over said body and between said flared ends, and means for securing said tail piece to said body.

In testimony whereof I affix my signature.

THOMAS F. SCOTT.