

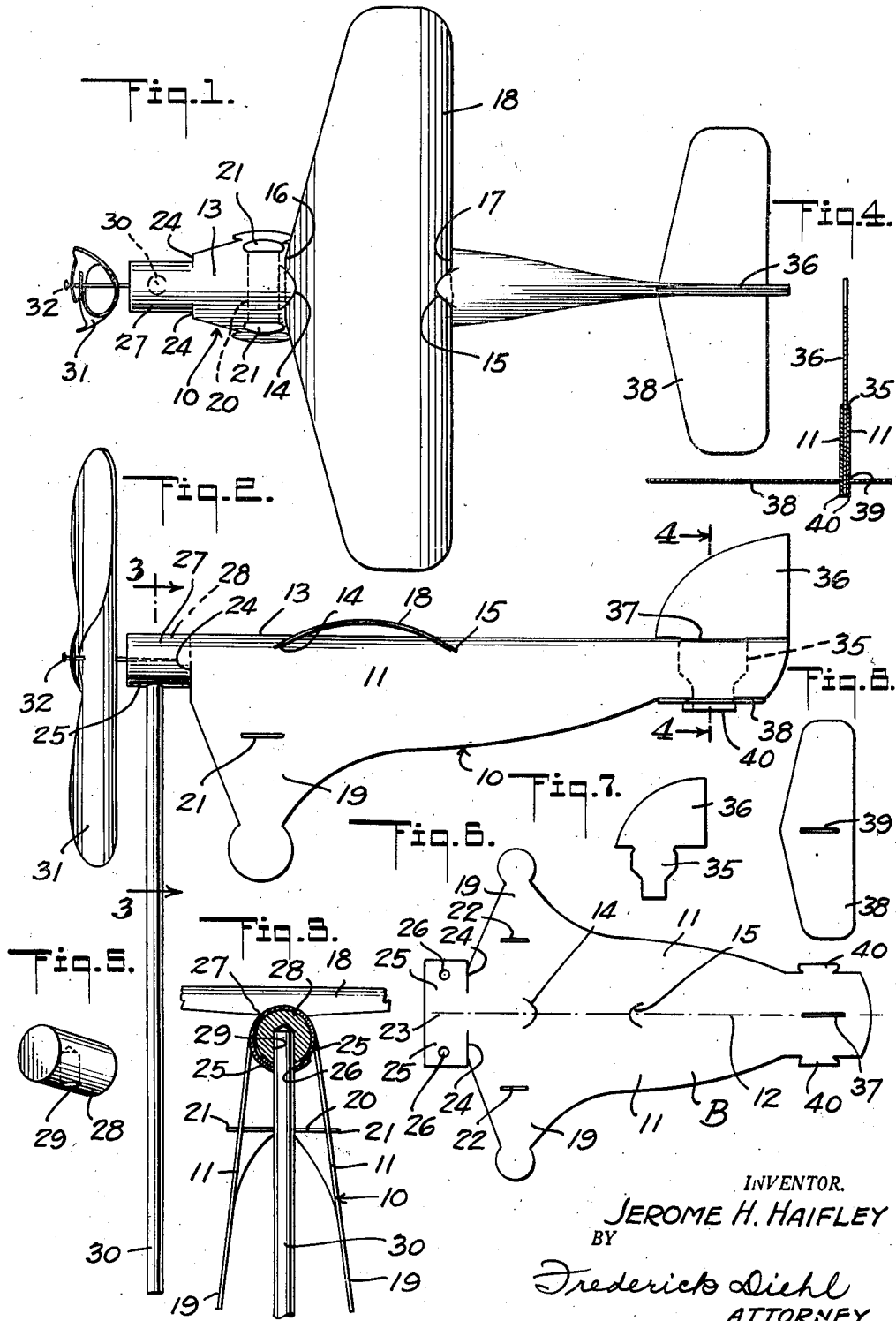
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AIRPLANE TOY

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AIRPLANE TOY

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2 Claims. (Cl. 46-58)

This invention relates generally to toys, the parts of which are preferably, although not necessarily assembled from kits to form the complete device.

An object of the invention is to provide an airplane toy whose parts are blanked and otherwise formed from inexpensive, non-essential materials such as paper or wood, and can be easily assembled to form the completed toy adapted to be held in the hand or in a suitable support so as to utilize air movements to effect rotation of the propeller of the toy, all to the end of simulating an aircraft in flight to provide the toy with "play" value and hence hold the interest of small children.

Another object of the invention is to provide an airplane toy of the above described character whose body or fuselage is formed from a paper blank bent and folded into its final shape for co-action with vertical and horizontal fins in providing a tail assembly, and for locking co-action with a propeller supporting nose piece and a stick handle in maintaining the associated parts assembled.

With these and other objects in view, the invention resides in the combinations and arrangements of elements as set forth in the following specification and particularly pointed out in the appended claims.

In the accompanying drawing,

Figure 1 is a plan view of one form of airplane toy embodying this invention;

Figure 2 is a view of the airplane toy in side elevation;

Figures 3 and 4 are enlarged fragmentary sectional views taken, respectively, on the lines 3-3 and 4-4 of Figure 2;

Figure 5 is a perspective view of the nose piece;

Figure 6 is a plan view of the blank from which the body of the toy is formed;

Figure 7 is a plan view of the vertical tail fin;

Figure 8 is a plan view of the horizontal tail fin.

Referring specifically to the drawing, the invention in its illustrated embodiment comprises a body or fuselage 10 constructed of relatively heavy paper, light, flexible cardboard, or similar inexpensive sheet material, from a symmetrical blank B shown in Figure 6. The area and contour of the blank B is such as to form the sides 11 of the body 10 when the blank is bent along the longitudinal medial line 12 into the substantially inverted U shape in cross section shown in Figure 3, and with the rounded top 13 which is provided with obliquely disposed and oppositely arranged notches 14 and 15 receiving and se-

curely holding the notched leading and trailing edges 16 and 17 respectively, of a wing 18.

The wing 18 is constructed from the same kind of material as the body 10 and is supported at a right angle to the length of the body in a laterally flexed position, by the spacing of the notches 14 and 15 so as to be provided with a camber as shown in Figure 2 and be maintained under stress by the notches to insure a rigid connection between the wing and body.

The depending forward portion 19 of the sides 11 simulate a landing gear, and can, if desired, be reinforced by a spacer 20 of sheet material having notched end flaps 21 insertable through slots 22 (Figure 6) in the portions 19 to rigidly connect them in the diverging relation shown in Figure 3.

The forward medial portion 23 of the blank B is slit transversely from opposite sides as indicated at 24 to provide attaching portions 25 having openings 26 therethrough (Figure 6) and adapted to form a sleeve 27 (Figures 1, 2, and 3) when tightly wrapped about a nose piece 28 in the form of a short cylinder of wood or similarly functioning material having a diametric socket 29 therein.

The spacing of the openings 26 in the attaching portions 25 is such that when the latter are applied on the sleeve, the openings will register with each other, so that when registered with the socket 29, a stick handle 30 can be inserted through the openings and forced into the socket to rigidly support the body 10 from the handle as well as co-act with the nose piece 28 and attaching portions 25 in locking the latter in sleeve-forming position. A suitable propeller 31 constructed of paper or other suitable material, is rotatably mounted in advance of the nose piece 28 co-axially thereof by a common pin 32 or equivalent shaft which is driven into the nose piece.

The bending of the blank B along the medial line 12 to form the sides 11 increases in acuteness towards its rear end so that at the latter the sides are flat and in parallelism with only sufficient space between them for insertion of the depending attaching flap 35 of a vertical fin 36 through a slit 37 in the body (Figure 6). A horizontal fin 38 is provided with a slot 39 through which notched flaps 40 on the sides 11 are insertable to secure the sides together. As shown in Figure 4, the flap 35 of the vertical fin 36 can be of such length as to also extend through the slot 39 to provide for a more rigid construction

of the tail assembly, although this is not essential.

From the foregoing description it will be manifest that the invention provides an airplane toy of extremely inexpensive construction whose body is formed from a blank constructed to co-act with the propeller mounting nose piece 28 and with the handle 30 to rigidly secure these three parts together, and to co-act with the vertical and horizontal fins of the tail assembly in maintaining the desired form of the body and rigidly securing the fins thereto, all to the end of dispensing with extraneous fastening means for such purposes.

I claim:

1. An airplane toy comprising: a nose piece having a socket; a body of sheet material of generally inverted U-shaped cross section providing sides and a closed top; said body having attaching portions at its forward end provided with openings and wrapped in opposite directions about said nose piece in overlapping relation to form a sleeve, with said openings registering with each other and with said socket; a handle extending through said openings into said socket to rigidly support the body from the handle and secure the aforestated parts together; a wing supported on the body; the rear portion of said body having a longitudinal slit along the top

thereof, and attaching flaps depending from its sides; a vertical fin projecting through said slit; and a horizontal fin having a slit receiving said flaps to secure the horizontal fin to the body and the vertical fin against displacement from between the sides of the body.

2. An airplane toy comprising: a nose piece having a socket; a body of sheet material of generally inverted U-shaped cross section providing sides and a closed top; said body having attaching portions at its forward end provided with openings and wrapped in opposite directions about said nose piece in overlapping relation to form a sleeve, with said openings registering with each other and with said socket; a handle extending through said openings into said socket to rigidly support the body from the handle and secure the aforestated parts together; a wing supported on the body; the rear portion of said body having a longitudinal slit along the top thereof, and attaching flaps depending from its sides; a vertical fin having a portion projecting through said slit; and a horizontal fin having a slit receiving said flaps to secure the horizontal fin to the body with the sides of the latter in frictional engagement with said portion of the vertical fin to secure the latter against displacement.

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