May 15, 1934. J. A. TIMBS 1,959,280

TOY

Original Filed May 27, 1932

Fig. 1.

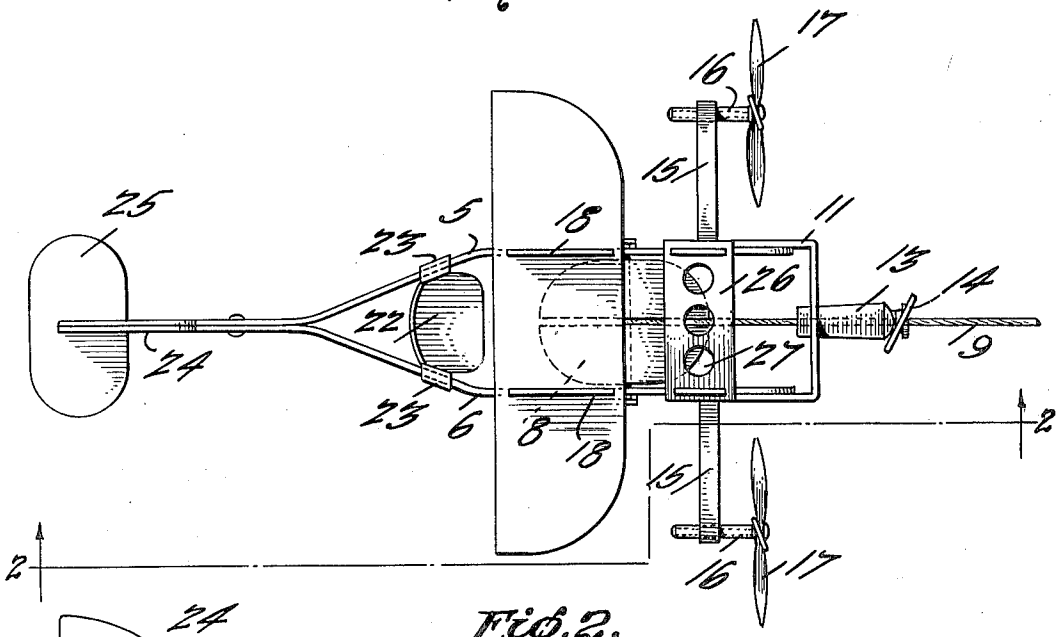


Fig. 2.

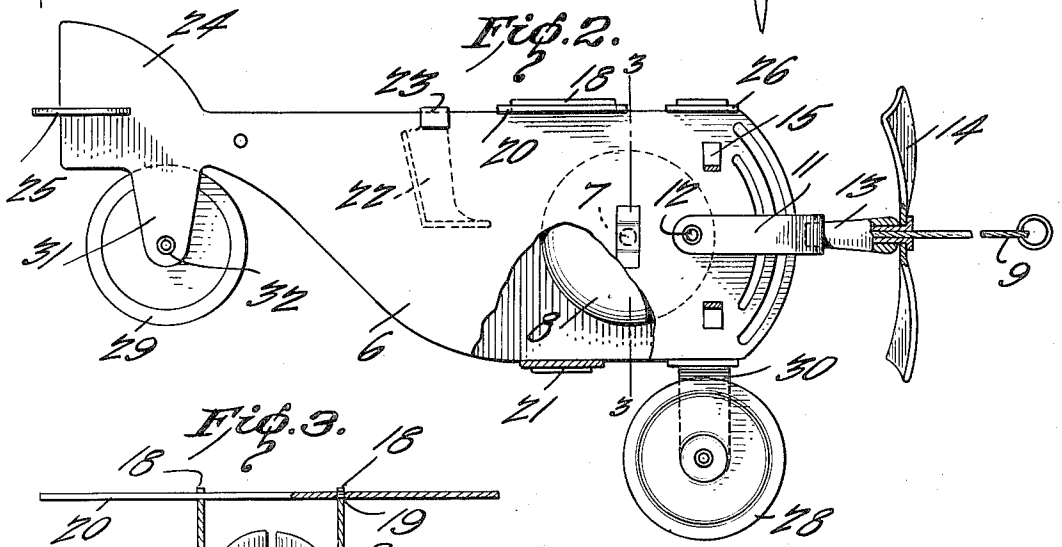
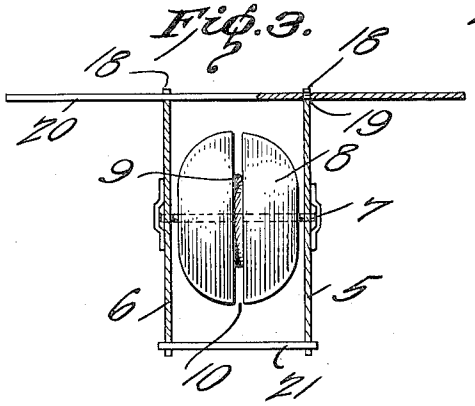


Fig. 3.



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TOY

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Application May 27, 1932, Serial No. 613,989
Renewed August 17, 1933

4 Claims. (Cl. 46—50)

This invention relates to amusement apparatus and particularly to a toy simulating an airplane which can be manipulated to give the effect of flight to the airplane.

It is an object of this invention to provide a body or simulated fuselage having a winding device mounted therein, to said winding device being in the nature of a grooved wheel in which groove, a flexible element, such as a cord, is wound and when properly manipulated the winding and unwinding of the flexible member result in a movement of the wheel up and down the flexible member. Devices of this character are common in the art but it is in association with the simulated airplane that the novel result is attained and a pleasing effect produced.

It is a further object of the invention to provide a simulated airplane with a pivotally mounted yoke at its front, the said yoke having a tubular extension through which the flexible member extends, the said tubular extension being provided with a simulated propeller which rotates due to the resistance of the air while the simulated airplane is moving.

It is a further object of this invention to provide simulated propellers at the sides of the fuselage so that the device will have the appearance of a three-motored airplane.

It is a further object of this invention to provide a simulated airplane which is of light and durable construction and in which the joints in the main are made by tongue and groove connections.

With the foregoing and other objects in view, the invention consists in the details of construction and in the arrangement and combination of parts to be hereinafter more fully set forth and claimed.

In describing the invention in detail, reference will be had to the accompanying drawing forming part of this application, wherein like characters denote corresponding parts in the several views, and in which—

Figure 1 illustrates a plan view of an amusement device embodying the invention;

Figure 2 illustrates a side elevation thereof broken away to show part of the interior; and

Figure 3 illustrates a sectional view on the line 3—3 of Figure 2 omitting parts exteriorly of the body.

The sides 5 and 6 of the body are formed from sheets of flexible material, such as celluloid or the like and the inventor does not wish to be limited to the character of the material employed in the manufacture of the device. Near the front ends of the sides, a transversely disposed shaft 7 is journaled and the circumferentially slotted member 8 is mounted on the shaft. The shaft rotates in the sides 5 and 6 and a flexible member 9 such as a cord is wound in the slot 10.

A yoke 11 is oscillatively mounted on devices one of which is shown at 12, and the yoke may therefore have a range of oscillation which extends from practically the top to the bottom lines of the body or simulated fuselage. The yoke is provided with a tubular extension 13 which simulates a hub and a propeller 14 is rotatively mounted on a hollow shaft A in the tubular extension and it has an aperture through which the flexible member 9 projects, it being understood that the said flexible member also moves through the tubular extension 13.

Brackets 15 project from each side of the body and bearings 16 carried thereby support a simulated propeller 17 which is rotatable. The parts just described are duplicated on each side of the body and as the body is propelled through the air, movement is imparted to the simulated propellers.

The upper edge of each side is provided with an extension or tongue 18 which projects through a slot 19 of the simulated airfoil 20 and the same sort of construction is employed for securing the brace 21 at the lower edges of the sides in order that a comparatively rigid structure will result.

Where the sides 5 and 6 converge, a seat 22 is supported from the top edges of the sides, the said seat having a hanger 23 on each side which is shaped to embrace the upper edge of the seat of the body which it engages. The seat may be occupied by a toy figure, such as a doll or the like.

24 illustrates a simulated rudder of the airplane and 25 is a simulated aileron.

In front of the airfoil 20 another brace 26 is connected to the sides and it may have a plurality of apertures 27 therein which may be used to denote the locations of the engines.

Suitable traction wheels 28 and 29, are shown as being carried by the brackets 30 and 31 respectively, but as these are not intended as operative parts of the device, their mountings or journals are incidentally shown. They may be stamped as integral parts of the brackets and the brackets 31 are secured together with the simulated wheel by a fastening 32, such as a rivet or the like.

From an inspection of the drawing and the foregoing description, it will be apparent that when the flexible element 9 is wound on the wheel,

it may be manipulated to cause the flexible member to be unwound speedily and it is the purpose of the inventor that the momentum due to the unwinding operation will result in a rewinding of the flexible element on the wheel so that a repetition of this operation will cause the effect of flight to the simulated airplane and owing to the fact that the yoke 11 is oscillatively mounted, the flexible member and the simulated airplane may have a wide range of movement with relation to each other to prevent binding or other conditions which would affect the operation of the device.

I claim

1. In a toy, a body simulating an airplane, said body having sides, a shaft supported by the said sides a wheel having a peripheral slot mounted on the shaft and rotatable between the sides of the body, a flexible member wound in the said slot, a yoke pivotally mounted to the sides of the body near the front, the said yoke extending beyond the front of the body, a hollow extension secured to the yoke and projecting forwardly through which the flexible member projects, the said flexible member being operative in connection with the wheel to impart rotary motion to the wheel.

2. In a toy, a body simulating an airplane, the said body having sides, a shaft supported by the sides a wheel having a peripheral slot mounted on the shaft and rotatable between the sides of the body, a flexible member wound in the said slot, a yoke pivotally mounted to the sides of the body near the front, the said yoke extending beyond the front of the body, a hollow extension secured to the yoke and projecting forwardly through which the flexible member projects, the said flexible member being operative in connection with the wheel to impart rotary motion to the wheel, a hollow bearing in the tubular extension through which the flexible member extends, and an element simulating a propeller on the said shaft.

3. A toy comprising a body having sides formed of flexible material, means for holding the sides in spaced relation to each other at their front ends, the said sides converging at the rear and being secured in contact with each other, and brackets extending laterally from the sides of the body members simulating propellers rotatably mounted thereon, a yoke pivotally mounted at the front of the body, a hollow extension on the yoke projecting forwardly, a hollow shaft in the said projection, a wheel having a peripheral groove mounted between the sides of the body, a flexible member wound in the groove of the rotatable member, the said flexible element projecting forwardly through the hollow extension and the hollow shaft, and a member simulating a propeller rotatably mounted on the hollow shaft.

4. In a toy, a body simulating an airplane, said body having sides, a shaft supported by the said sides, a wheel having a peripheral slot mounted on the shaft and rotatable between the sides of the body, a flexible member wound in the said slot, a yoke pivotally mounted to the sides of the body near the front, the said yoke extending beyond the front of the body and through which the flexible member projects, the said flexible member being operative in connection with the wheel to impart rotary motion to the wheel.

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