June 2, 1931. A. PAUL ET AL 1,808,678

TOY

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Fig. 1.

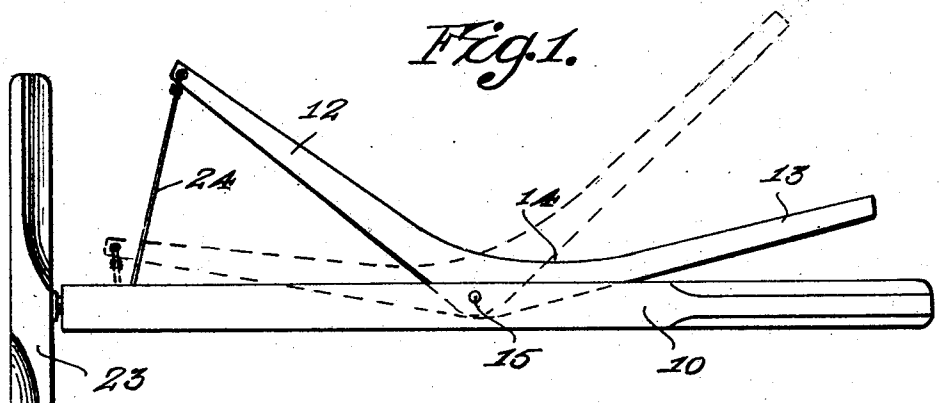


Fig. 2.

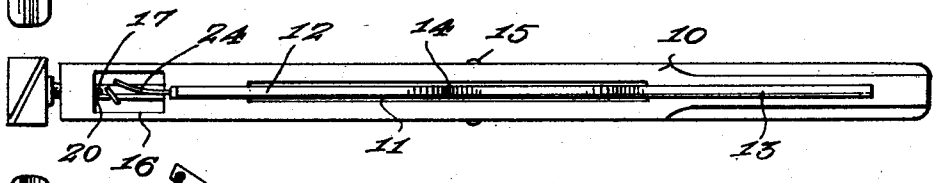


Fig. 3.

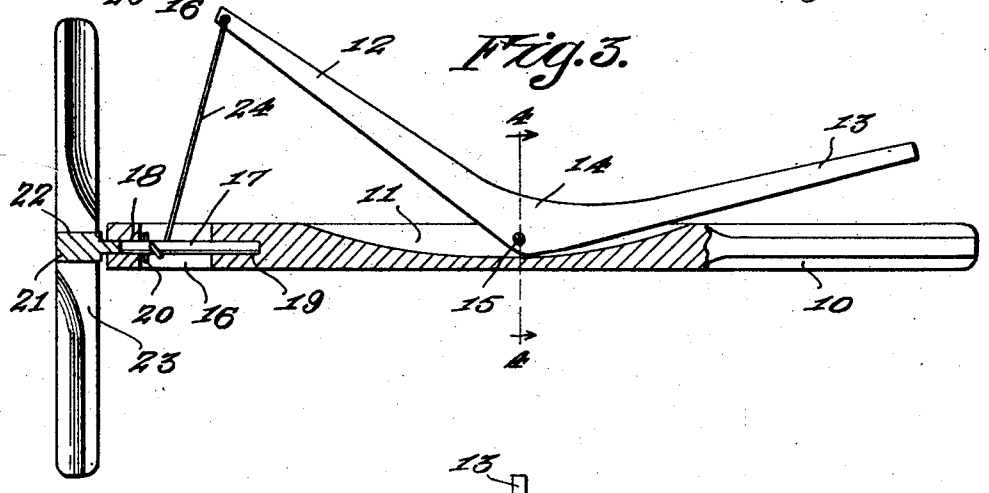
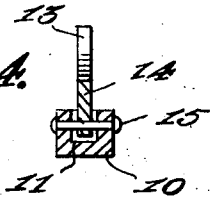


Fig. 4.



Andrew Paul,
Frank Sturni,
INVENTOR

BY Victor J. Evans
ATTORNEY

WITNESS:

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Fig. 5.

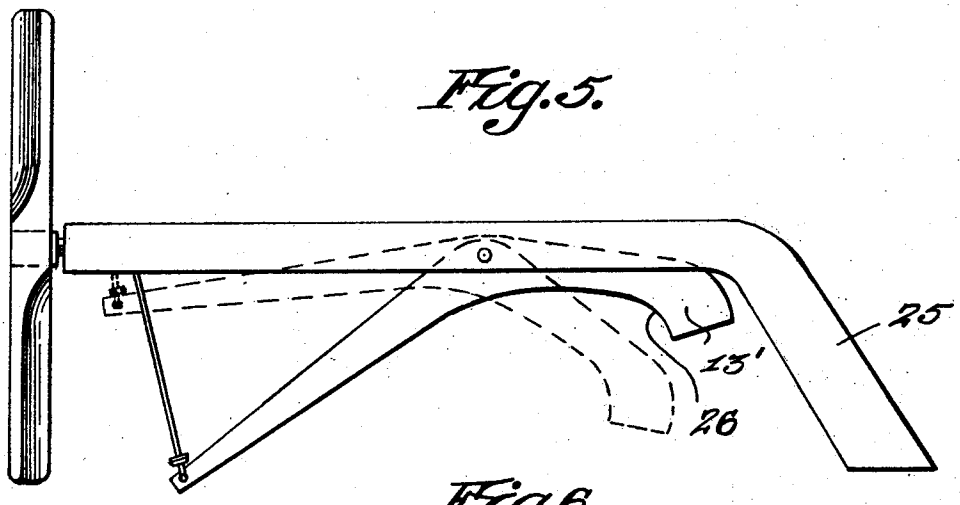


Fig. 6.

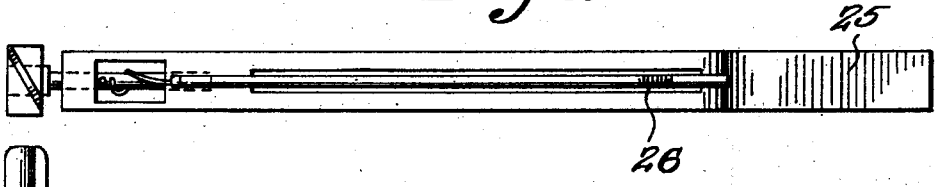


Fig. 7.

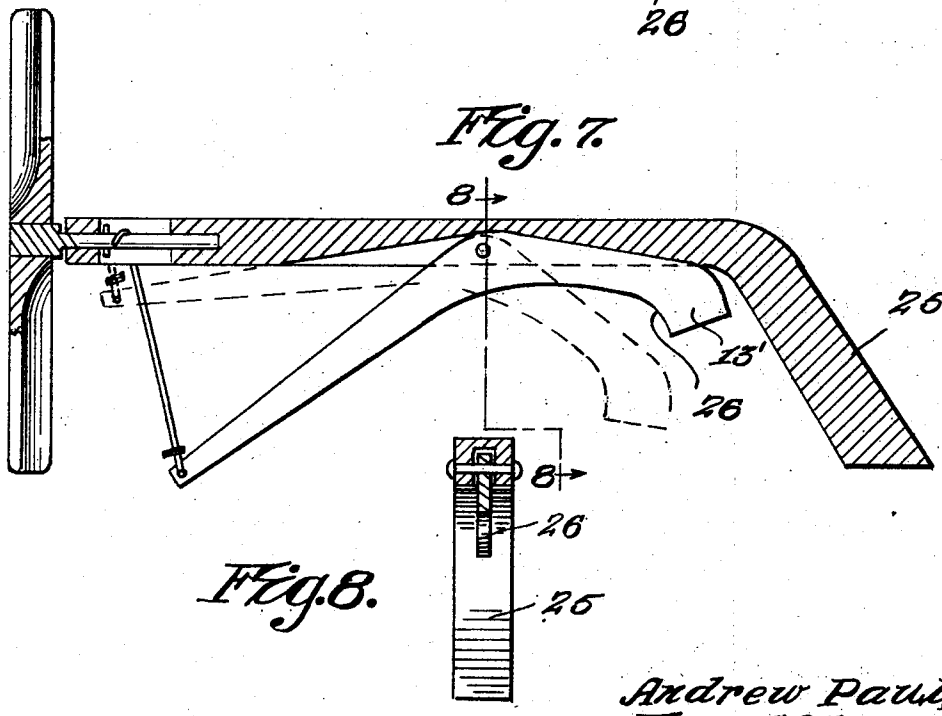


Fig. 8.

Andrew Paul,
Frank Sturni,
INVENTOR

BY Victor J. Evans

ATTORNEY.

WITNESS:

Patented June 2, 1931 1,808,678

UNITED STATES PATENT OFFICE

ANDREW PAUL AND FRANK STURNI, OF SEWARD, PENNSYLVANIA

TOY

Application filed October 7, 1930. Serial No. 487,064.

This invention relates to toys and more particularly to the propeller or fan type.

One of the principal objects of the invention consists of a toy of this character having a handle structure upon which the propeller or fan is mounted.

An additional object of the invention contemplates the provision and arrangement of an operating lever for the body having operative connection with the mounted portion of the fan.

More specifically stated the operating lever is provided with a handle portion designed for coactive relation with the body in the grasping and releasing thereof to impart the necessary motion to the propeller.

With the above and other objects in view, the invention further consists of the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claims.

In the drawings:—

Figure 1 is a side elevation of the present invention.

Figure 2 is a top plan view thereof.

Figure 3 is a longitudinal sectional view taken through the invention.

Figure 4 is a horizontal sectional view taken on line 4—4 of Figure 3.

Figure 5 is a view similar to Figure 1 of a modified form of our invention.

Figure 6 is a top plan view of the modification.

Figure 7 is a longitudinal sectional view taken through the modification.

Figure 8 is a horizontal sectional view taken on line 8—8 of Figure 7.

Referring to the drawings in detail wherein like characters of reference denote corresponding parts, the reference character 10 indicates generally the handle structure having a pocket 11 recessed in one side thereof to accommodate the intersecting meeting portions of oppositely diverging arms 12 and 13 of an operating lever structure 14 for rocking motion upon a pivot pin 15 carried at its ends within the side walls of the pocket. The body is slotted, as at 16, at right angles to the longitudinal center thereof to expose an appropriate portion of a mandrel or shaft 17 journaled within openings 18 and 19 in the body and aligned adjacent the ends of the slot. A cross pin 20, carried upon that portion of the mandrel or shaft 17 within the slot 16 is designed for abutting engagement with the foremost end wall of the slot 16 to prevent accidental displacement of the assemblage. A hub portion 21, carried upon the outermost projecting end of the mandrel or shaft 17 beyond the body 10, is designed for accommodation within an opening 22 in a propeller or fan blade 23. A flexible connecting element in the nature of a cord 24 carried at the end of the arm 12 and wrapped at its opposite end about the exposed portion of the mandrel or shaft 17 within the slot 16 facilitates the imparting of the successive rotations to the propeller or fan blade. It is to be noted that movement of the arm 13 toward and away from the handle portion or body 10 in rapid succession will allow the flexible cord 24 to wrap itself about the exposed portion of the mandrel or shaft in different directions whereby the fan blade or propeller may be actuated with such rapidity that it would appear to rotate continuously in one direction.

In Figures 5 to 8 inclusive of the drawings, we have illustrated a modified form of our invention which embodies the principal characteristics of the form previously described but in contradistinction thereto has the rearmost projecting end of the body or handle obliquely disposed therefrom to provide a form of pistol grip 25. The arm 13 is also modified to the extent of shaping same after the manner of firearm triggers for coacting relation with the pistol grip handle 25. The arm 13 is reduced, as at 26, upon the outer surface thereof to provide a finger engaging portion whereas the opposite side edge of the arm is disposed in parallelism therewith whereby the structure of the arm will not be weakened due to the provision and arrangement of the finger engaging portion. The lever structure is mounted upon the handle and connected with the mandrel for the fan or propeller blade in the manner pursued in the preferred form of the invention.

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is herein reserved to make such changes as properly fall within the scope of the appended claims.

Having described the invention, what is claimed is:—

1. A whirligig toy comprising a body having a pocket within one side thereof, a lever structure embodying oppositely diverging arms pivotally mounted for rocking motion at the point of intersection thereof within said pocket, the body having a slot extending at right angles thereto and adjacent one end, a mandrel journaled within the body and exposed through said slot, a flexible connection established between the lever and exposed portion of the mandrel, and a whirling object carried upon the outermost projecting end of the mandrel.

2. A whirligig toy comprising a body having a pistol grip handle formed upon one end thereof, the body being slotted at right angles thereto adjacent its opposite end, a mandrel journaled within the body exposed through said slot, the body being further provided with a pocket in one side thereof, a lever structure having oppositely diverging arms and journaled for rocking motion within said pocket, a flexible connection established between the extremity of one of the arms and the exposed portion of the mandrel for reeling and unreeling action therewith, and the other arm being slotted to provide a finger engaging portion for coaction with the pistol grip handle.

In testimony whereof we affix our signatures.

ANDREW PAUL.
FRANK STURNI.