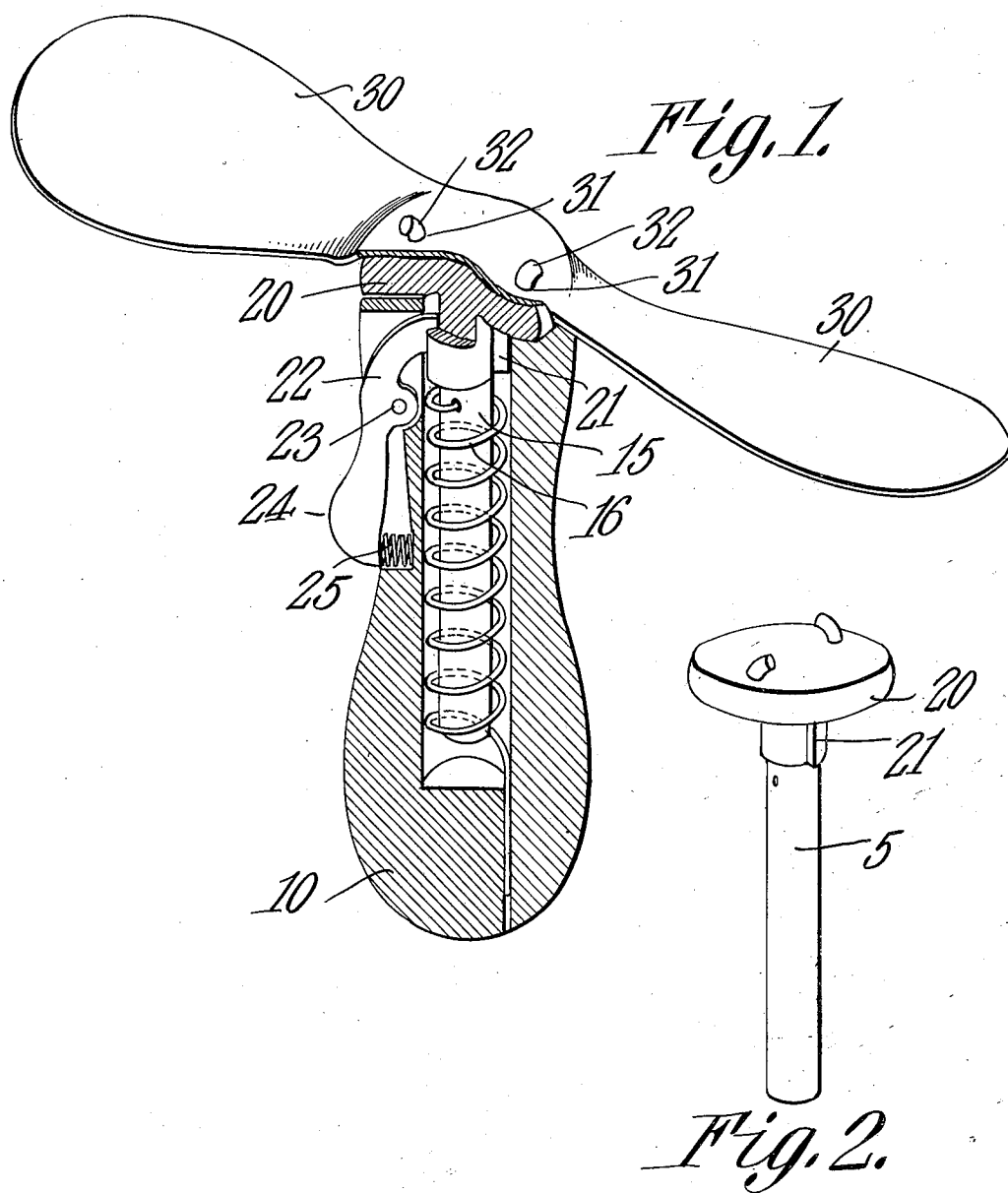


No. 880,633.

PATENTED MAR. 3, 1908.

J. T. CURTIS.
TOY.

APPLICATION FILED APR. 23, 1907.



WITNESSES:
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UNITED STATES PATENT OFFICE.

JESSE TEMPLE CURTIS, OF BEMENT, ILLINOIS.

TOY.

No. 880,333.

Specification of Letters Patent.

Patented March 3, 1908.

Application filed April 23, 1907. Serial No. 369,813.

To all whom it may concern:

Be it known that I, JESSE T. CURTIS, a citizen of the United States, residing at Bement, in the county of Piatt and State of Illinois, have invented a new and useful Toy, of which the following is a specification.

This invention relates to aerial toys, and has for its principal object to provide a device of simple construction by which a bladed fan may be revolved at a rapid rate of speed and allowed to soar in the air.

A further object of the invention is to provide a novel construction of fan operating and releasing means.

With these and other objects in view, as will more fully hereinafter appear, the invention consists in certain novel features of construction and arrangement of parts, hereinafter fully described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that various changes in the form, proportions, size and minor details of construction may be made without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawings:—Figure 1 is a perspective view, partly in section of a toy constructed in accordance with the invention. Fig. 2 is a detail perspective view of the fan carrier detached.

Similar numerals of reference are employed to indicate corresponding parts throughout the several figures of the drawings.

In carrying out the invention, the handle 10 is formed of wood or metal, and of such size as to be conveniently grasped in one hand. The handle is bored out from one end in order to receive a spindle 15 and a helical spring 16, one end of the spring being extended downward and entering a receiving or locking recess that is formed in the handle, while the opposite end of the spring passes through an opening formed in the spindle. At the upper end of the spindle is arranged a cylindrical head 20, and below this head is a ratchet wheel 21 that is within the bore of the handle. This ratchet wheel is engaged by a releasing trigger or pawl 22 pivoted on a stud 23, and provided with a finger piece 24 which is arranged in convenient position to be depressed by the thumb or finger of the operator. The trigger or pawl is normally

held in engagement with the ratchet wheel by a suitable spring 25 disposed in a recess under the finger piece 24.

The fan 30 may be formed of aluminium or other light sheet metal, and preferably is provided with two blades or vanes. In the fan are arranged openings 31 that receive pins 32 projecting from the head 20, it being understood that the pins are inclined in a direction opposite to that in which the head and the fan rotate, this being for the purpose of allowing the fan to disengage from the head during the unwinding movement of the spring, as well as to prevent injury to the hand in case the trigger should be released during the winding operation.

In practice, the head 20 is grasped in one hand and the handle in the other, and either or both are turned for the purpose of placing the spring under stress. As the spring is wound, the teeth of the ratchet wheel will click under the trigger or pawl 22, and the spring will be locked in wound position. If during this winding operation the trigger should be released and the head revolved rapidly, the inclination of the pins 32 is such that they will slide over the hand without abrading the skin.

The fan is placed in position on the pins and then the operator grasping the handle may point the fan in any direction, and by simple pressure on the trigger, release the spring, so that the spindle will be rapidly revolved, and this movement transmitted to the fan will cause the latter to rise and soar through the air.

I claim:—

In combination, a hollow handle, a revoluble spindle loosely hung therein and having an enlarged head by which the spindle is suspended within the handle, the head being free to rotate with the spindle, a helical spring wound around the lower portion of the spindle and connected at one end to the spindle, and at the opposite end to the handle, said spring serving as a spindle rotating means, and, also, acting to form a connection between the spindle and the handle, the upper portion of the periphery of the spindle being shaped to form a ratchet wheel, the teeth of such ratchet wheel being protected or housed by the upper portion of the handle, a pivotally mounted trigger arranged in a slot in the handle and having one end en-

gaging the ratchet wheel, a spring engaging
the opposite end of the trigger and tending
to hold the latter in operative position, a pair
of pins carried by the head and inclined in a
5 direction opposite that in which the head is
to rotate, and a fan having a pair of openings
for the reception of said pins.

In testimony that I claim the foregoing as
my own, I have hereto affixed my signature
in the presence of two witnesses.

JESSE TEMPLE CURTIS.

Witnesses:

REBECCA M. CLARK,
CARL R. THOMPSON.