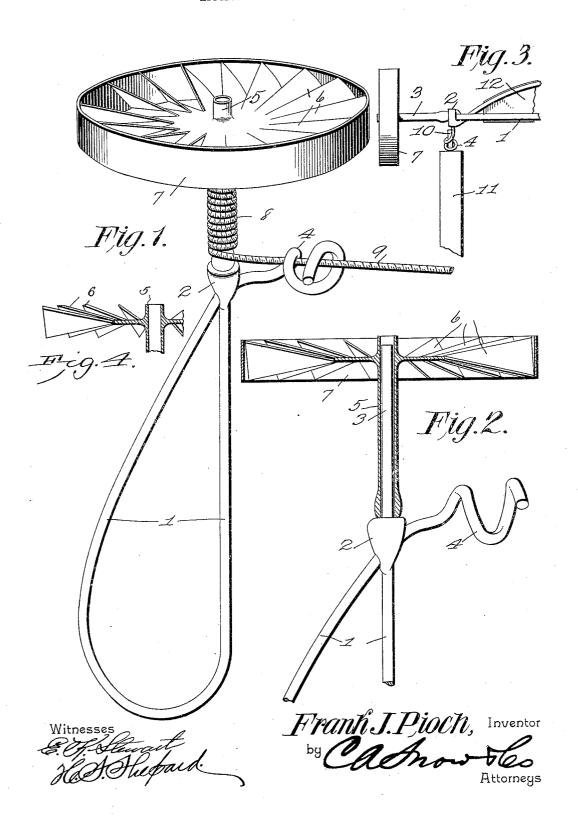
F. J. PIOCH.
TOY.
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UNITED STATES PATENT OFFICE.

FRANK J. PIOCH, OF PROVO CITY, UTAH.

TOY.

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To all whom it may concern:

Be it known that I, FRANK J. PIOCH, a citizen of the United States, residing at Provo City, in the county of Utah and State of Utah, have invented a new and useful Toy, of which the following is a specification.

This invention relates to toys, and has for its object to provide an improved flying toy or top wherein the rotatable element or top member may be conveniently assembled with

the handle or body of the device.

Another object of the invention is to provide for guiding the operating-cord when being unwound from the stem or shank of the rotatable member and to facilitate the engagement of the cord with the guide without threading the former in an endwise direction through the guide.

A still further object of the invention is to arrange the device so that it may be supported in a substantially horizontal position to operate as a windmill and as a weather-vane in addition to its operation as a flying toy or top.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawings, Figure 1 is a perspective view of the toy of the present invention arranged for use as a flying top. Fig. 2 is a detail longitudinal sectional view thereof. Fig. 3 is a detail view, on a small scale, illustrating the device mounted to operate as a windmill and weather-vane. Fig. 4 is a detail sectional view of a modified form of pro-

peller-wheel.

Like characters of reference designate cor-45 responding parts in each and every figure of

the drawings.

An important consideration in the production of the present device is of course simplicity, inexpensiveness, and durability, and therefore it is proposed to form the handle or body from a single piece of wire, which is bent intermediate of its ends to form an elongated loop 1, which constitutes the handle or body, the end portions of the wire being intertwisted and soldered, as at 2, to rigidly connect the end portions of the wire and also

produce a shoulder or seat for the support of the top member, as will hereinafter appear. One side of the handle is extended in a straight line beyond the shoulder 2, so as to form a 60 spindle member 3, while the other side of the handle has its end portion projected at substantially right angles to the spindle and bent into a spiral 4, which constitutes a guide for the operating-cord, as will be hereinafter explained.

The rotatable top member consists of a tubular open-ended stem or shank 5, from one end portion of which radiate propeller-blades 6, the outer ends of which are embraced by a 70 rim 7 to brace the blades and strengthen the

top.

In using the device as a flying top the tubular stem or shank 5 of the top is slipped upon the spindle 3 and supported upon the 75 shoulder or seat 2, after which a suitable operating-cord is wound upon the tubular stem, as indicated at 8 in Fig. 1 of the drawings, and then the free end of the cord is engaged with the guide 4 by winding the free end portion 9 of the cord between the coils of the guide, thereby bringing the cord into the position shown in Fig. 1. When the parts have thus been assembled, the handle 1 is taken in one hand and the free end portion 9 of the 85 cord is quickly drawn through the guide which rotates the top, and when the cord becomes entirely unwrapped from the tubular stem or shank 5 the top mounts into the air and then returns to the ground, where it spins upon the 90 stem or shank 5. The purpose of the guide 4 is to retain the cord in engagement with the handle until the extremity of the cord is freed from the stem or shank of the top, thereby to maintain said top upon the handle until the 95 cord has entirely unwrapped therefrom, so as to prevent the top springing from the handle before the cord has been unwrapped therefrom. It will thus be understood that in addition to serving as a guide for the operating- 100 cord the member 4 operates to maintain the top upon the handle until all of the cord has become unwound therefrom, thereby to obtain the most effective rotation of the top and to prevent entangling of the cord thereon.

In addition to its capacity as a flying top the present device may serve as a weather-vane and a windmill in the manner illustrated in Fig. 3 of the drawings, wherein the guide 4 is placed over a nail 10, driven into the top of a post or other support 11, there being a piece of paper, board, or the like 12 connected to the handle to serve as a vane, so as to hold the wheel to the wind in order that the

wheel may be rotated thereby.

From the foregoing description it will be understood that the present invention produces an exceedingly strong, durable, and inexpensive toy, which may be conveniently manipulated without any particular degree of skill and may be quickly transformed from a flying top to a weather-vane or windmill without disconnecting or adjusting any of the parts of the toy.

While the rotatable top member or propellerwheel has been shown with a rim, its rim may 15 be omitted, if desired, particularly in small toys, where it is not absolutely essential to brace the outer ends of the propeller-blades,

as shown in Fig. 4.

Having fully described the invention, what 20 is claimed is—

1. A toy of the character described comprising a handle having a spindle, a rotatable wheel having propeller-blades and a tubular stem for detachable rotation upon the spindle, and an open-ended cord-guide carried by and projected from the handle at substantially right angles to the base of the spindle.

2. A toy of the character described comprising a handle having a spindle, a rotatable wheel having propeller-blades and a tubular stem for detachable rotation upon the spindle, and an open-ended cord-guide carried by the handle at substantially right angles to the spindle and consisting of a spirally-bent mem-

35 ber.

3. A combined flying top and toy windmill comprising a handle having a spindle projected longitudinally from one end of the handle, a rotatable wheel having propeller-blades and a tubular stem for detachable rotation upon the spindle, and a cord-guide carried by and projected from the handle at substantially right angles to the base of the spindle and constituting a support for the device when used as 45 a toy windmill.

4. A toy of the character described com-

prising a wire handle, one end of the wire being formed into a spindle and the other end formed into a cord-guide located at the base of the spindle, and a rotatable wheel having 50 propeller-blades and a tubular stem for detachable rotation upon the spindle.

5. A toy of the character described comprising a handle formed of a looped wire, one end of the wire being formed into a spindle 55 and the other end being twisted into a spiral cord-guide disposed at substantially right angles to the base of the spindle, and a rotatable wheel having propeller-blades and a tubular stem for detachable rotation upon the 60

spindle.

6. A toy of the character described comprising a handle formed of wire which is bent intermediate of its ends to form a loop constituting a handle, one end of the wire con- 65 stituting a spindle and the other end of the wire being bent into a spiral disposed laterally at one side of the spindle and constituting a cord-guide, and a rotatable wheel removably mounted upon the spindle and pro- 70

vided with propeller-blades.

7. A toy of the character described comprising a handle formed from a single length of wire which is bent intermediate of its ends to form a loop-shaped handle, one end portion of the wire constituting a spindle and the other end portion being wrapped around the base portion of the spindle and formed into a cord-guide projected at one side of the handle, the engaged portions of the wire besing arranged to form an annular shoulder, and a rotatable wheel having propeller-blades and a tubular stem rotatably embracing the spindle and supported upon the shoulder.

In testimony that I claim the foregoing as 85 my own I have hereto affixed my signature in

the presence of two witnesses.

FRANK J. PIOCH.

Witnesses:

V. V. Bott, August Blunenthel.