

SPINNING DEVICE.

967,756.

Patented Aug. 16, 1910.



Witnesses
Chas. L. Griebauer
C. H. Griebauer

Inventor

W. B. Gilmore.

H. B. Wilson & Co.
Attorneys

UNITED STATES PATENT OFFICE.

WILLIS B. GILMORE, OF IDAHO SPRINGS, COLORADO.

SPINNING DEVICE.

967,756.

Specification of Letters Patent.

Patented Aug. 16, 1910.

Application filed December 21, 1908, Serial No. 468,604. Renewed May 23, 1910. Serial No. 563,000.

To all whom it may concern:

Be it known that I, WILLIS B. GILMORE, a citizen of the United States, residing at Idaho Springs, in the county of Clear Creek and State of Colorado, have invented certain new and useful Improvements in Spinning Devices; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to an improved spinner for tops, fliers and the like.

The object of the invention is to provide a simply constructed device by which a top or a flier may be revolved rapidly and ejected therefrom and caused to spin on the ground or to soar in the air as is desired.

Another object is to provide a novel construction of article-engaging and releasing means.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings: Figure 1 is a side elevation of this improved spinner with a top arranged in juxtaposition; Fig. 2 is a horizontal section of the spinner; Fig. 3 is a detail vertical section on an enlarged scale of the head; and Fig. 4 is a detail perspective view of the revoluble spinning member detached.

In the embodiment of the invention as herein illustrated a tubular member is shown comprising a handle, 1, formed of wood, metal or any other suitable material and of a size to be conveniently grasped in one hand and having a longitudinal extension, 2, provided at its free end with a bifurcated head, 3. This handle and extension have a bore extending longitudinally therethrough to receive an operating cord, 4. This handle, 1, is provided at its free outer end with a bar, 5, extending transversely across the opening or bore therein to separate the operating cord and prevent its becoming tangled.

A spinning member or quill, 6, extends transversely through the apertured arms of the head, 3, at right angles to the slot therein and is loosely mounted to revolve in said arms. A pulley, 7, is fixed to this quill or hollow shaft, 6, between the forked ends of

the head, 3, and over which the operating cord, 4, is designed to pass. This pulley, 7, is preferably constructed as shown with the groove, 8, therein made V-shaped in cross section to provide for the frictional engagement of the string or cord, 4, with the sides of said groove whereby reliable pulling action is obtained. This form of pulley is especially adapted for use with a loose string whereby the pulley and the shaft to which it is attached may be caused to revolve by simply pulling the string over the pulley. This string, 4, is passed through the bore in the handle, 1, and extension, 2, on one side of the cross bar, 5, around the pulley, 7, back through the bore on the opposite side of the cross bar and both ends thereof are preferably knotted to prevent their being withdrawn through the bore when in use and they also serve as gripping members for operating the string.

The hollow shaft or quill, 6, is provided at each end with a double screw point, as 9, the points extending in opposite directions to adapt them to engage a pin in the spindle of the top or to fit in apertures of a flier as may be desired and the longitudinally aligned points at the opposite ends of the shaft extending in opposite directions.

In the operation of this device, one of the screw pointed ends of the hollow shaft or quill, 6, having been engaged with the article to be manipulated, a pull on the string at one side of the cross bar will cause the top or other object to revolve and on the release of the string and the stopping of the revolution of the shaft, the object will be thrown off from the shaft and caused to spin either on the ground or in the air as may be desired. The other end of the shaft, 6, may then be engaged with the article to be projected and a pull on the string at the other side of the cross bar will operate it as above described.

It will thus be seen that by the use of a loosely mounted string the top or flier may be quickly and rapidly operated and by turning the spinner one-half around it may be engaged with another article, for operating it.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion

and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention as defined in the appended claims.

I claim as my invention:—

1. A spinner for toys comprising a tubular handle member having one end thereof bifurcated and provided with registering apertures extending transversely through the arms thereof, an operating spindle rev-
 olubly mounted in said apertured arms and having a grooved pulley fixed thereto between said arms, toy engaging means carried by said spindle and a flexible element loosely
 looped around said pulley in the groove thereof and having its ends extending through said tubular handle in substantially parallel planes.
2. A spinner for toys comprising a tubular handle member having one end thereof bifurcated and provided with registering apertures extending transversely through the arms thereof, an operating spindle rev-
 olubly mounted in said apertured arms and having a grooved pulley fixed thereto between said arms, toy engaging means carried by said spindle, a flexible element

loosely looped around said pulley in the groove thereof and having its ends extending through said tubular handle in substantially parallel planes and means at the outer end of said handle for holding the ends of said flexible element in spaced relation.

3. A spinner for toys comprising a tubular handle member having one end thereof bifurcated and provided with registering apertures extending transversely through the arms thereof, an operating spindle rev-
 olubly mounted in said apertured arms and having a grooved pulley fixed thereto between said arms, the side walls of said groove flaring outwardly, article engaging means carried by said spindle and a flexible element looped loosely around said pulley in the groove thereof and having its ends extended through said tubular handle in substantially parallel planes.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIS B. GILMORE.

Witnesses:

JOHN G. ROBERTS,
 PERCY P. BARBOUR.