J. D. LYTLE.

TOP SPINNER.

APPLICATION FILED OCT. 21, 1919.

1,334,873. Patented Mar. 23, 1920.

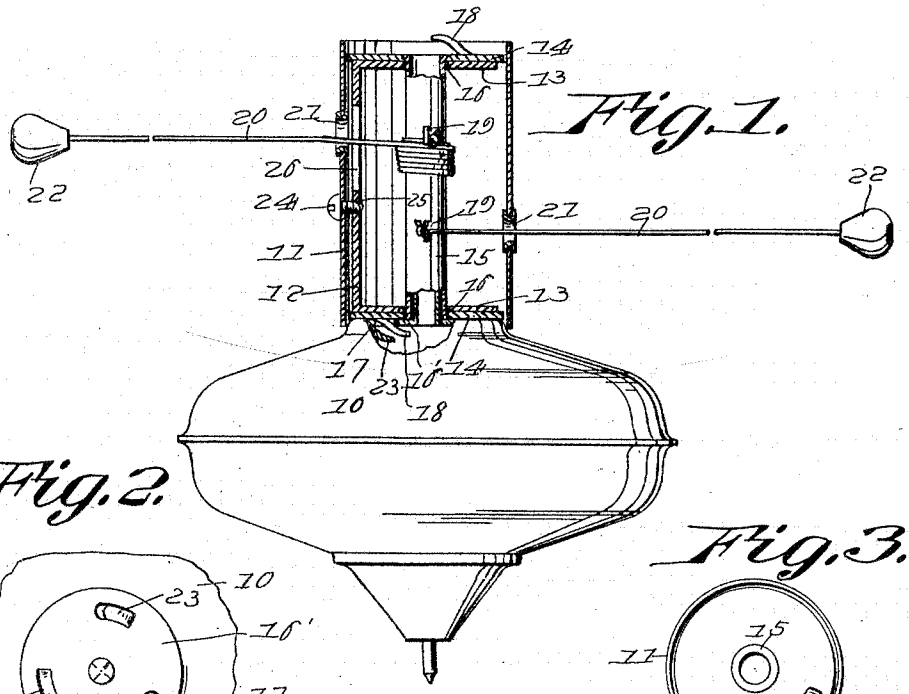


Fig. 1.

Fig. 2.

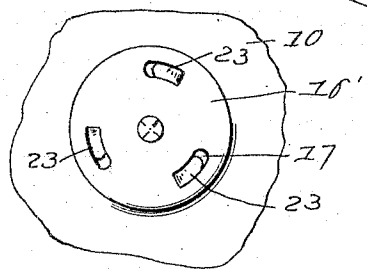


Fig. 3.

Fig. 4.

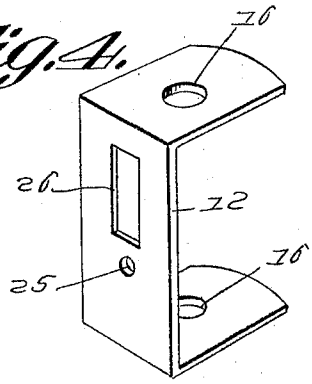


Fig. 5.

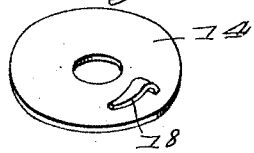
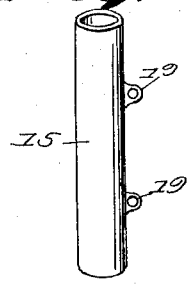


Fig. 6.



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TOP-SPINNER.

1,334,873. Specification of Letters Patent. Patented Mar. 23, 1920.

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To all whom it may concern:

Be it known that I, JAMES D. LYTLE, a citizen of the United States of America, residing at Baltimore, State of Maryland, have invented new and useful Improvements in Top-Spinners, of which the following is a specification.

The object of the invention is to provide a simple and efficient means for communicating spinning movement to a top without the inconvenience and effort incident to winding a spinning cord upon the spindle thereof and serving as a means whereby the top may be spun successively without intermediate preparation of the spinning device.

With these objects in view the invention consists in a construction and combination of parts of which a preferred embodiment is shown in the accompanying drawing, wherein:

Figure 1 is a sectional view of the spinning device applied in the operative position to a top body.

Fig. 2 is a plan view of a seat with which the top body is provided.

Fig. 3 is an end view of the spinner barrel.

Fig. 4 is a perspective view of the frame upon which the spinning head is mounted.

Fig. 5 is a similar view of one of the terminal disks of the spinning head.

Fig. 6 is a similar view of the drum of the spinning head.

In connection with a top body 10 of which a conventional form is shown in the drawing there is employed a barrel 11 constituting a handle or grip which may be grasped by the hand of the operator during the spinning operation or the communication of rotary motion to the top body, said barrel being open at opposite ends and having secured therein a bracket 12 provided with terminal ears 13 forming seats for disks 14 which constitute the terminal elements of a spinning head, and are connected by an intermediate tubular drum 15 which is mounted in suitable bearings 16 in the ears 13.

The top body is provided at its center with a seat 16 provided with one or more sockets 17 which may be formed by stamping or upsetting the material of the top, and the terminal disks of the spinning head are provided with tongues 18 for engagement with said sockets, said tongues being inclined with relation to the planes of the disks so as to facilitate disengagement thereof from the sockets as the top is released, and in fact to serve as means whereby the top body is forcibly discharged from the spinner as the rotary motion of the head is checked at the termination of the spinning movement.

Connected with the drum 15 at intermediate points by means of eyes 19 are the spinning cords 20 extending through lateral guide openings 21 in the barrel 11 and having terminal buttons 22. As one of these spinning cords is drawn out, after having been wound upon the drum, to communicate rotary motion to the spinning head, the other cord is wound thereon ready for subsequent use, and vice versa.

The spinner is terminally interchangeable in use, the disks of the spinning head being of corresponding construction and either being adapted for engagement with the seat 16 of the top body.

Therefore after communicating spinning movement to the top body by the operation of one of the cords, the spinner may immediately be reversed and applied to the same or other top body, the tongue 18 engaging with one of the sockets 17, and the other cord may then be drawn to communicate rotary motion to the top. As above noted, as the rotary motion of the spinning head ceases by reason, for example, of the contact of a terminal button 22 with the guide 21 in the barrel, the top body will be forcibly ejected in proper spinning position by reason of the socket 17 traversing the inclined outer surface of the tongue 18, and in order to insure an effective disengagement of the top body from the spinner, without materially retarding the rotary motion of the former, the metal which is upstruck from the seat 16 to form the socket 17 may as indicated in Figs. 1 and 2 be depressed to form a cam ear 23 designed to slide over the surface of the tongue 18.

From the foregoing description it will be readily seen that the apparatus may be constructed at a comparatively small cost, the various elements of the spinner being constructed of sheet metal, and in this connection attention is called to the fact that the bracket 12 in which are formed the bearings 16 for the spinning head is preferably constructed independently of the barrel and is adapted to be held in place therein by means of a screw 24 engaging an opening 25

in the body portion of the bracket. A slot 26 in the bracket permits of the passage of the spinning cord 20 to the guide opening in the wall of the barrel.

What is claimed is:

1. A top spinner consisting of a terminally open barrel forming a grip or handle, a spinning head revolubly mounted in the barrel and having terminal heads for interchangeable engagement with a top body, and spinning cords reversely connected with said spinning head for alternate winding movement thereon.

2. A top spinner having a reversible barrel forming a handle or grip, a spinning head revolubly mounted in said barrel and consisting of terminal heads connected by an intermediate drum and adapted for interchangeable engagement with a top body, and spinning cords extending through guides in the wall of the barrel and reversely connected with said drum for alternate winding thereon.

3. A top spinner having an open ended barrel, a bracket secured within the barrel and provided with terminal bearing ears, a spinning head revolubly mounted in bearings in said ears and consisting of terminal heads adapted for interchangeable engagement with a top body and a drum connecting said heads, and spinning cords reversely connected with said drum.

4. A top spinner having a barrel forming a grip or handle, a spinning head mounted in the barrel and having a spinning cord connected therewith, said head being provided with a terminal inclined tongue, in combination with a top body having a seat for said spinning head provided with a socket for engagement with the tongue.

5. A top spinner having a barrel forming a grip or handle, a spinning head mounted in the barrel and provided with a terminal disk having a projecting inclined tongue, and means for communicating rotary motion to said head, in combination with a top body having a seat for said disk provided with sockets for the reception of said tongue, and cam ears disposed adjacent to the sockets for contact with the tongue to effect forcible disengagement of a socket from the tongue.

In testimony whereof I affix my signature.

JAMES D. LYTLE.

Witness:

HELEN LEVIN.