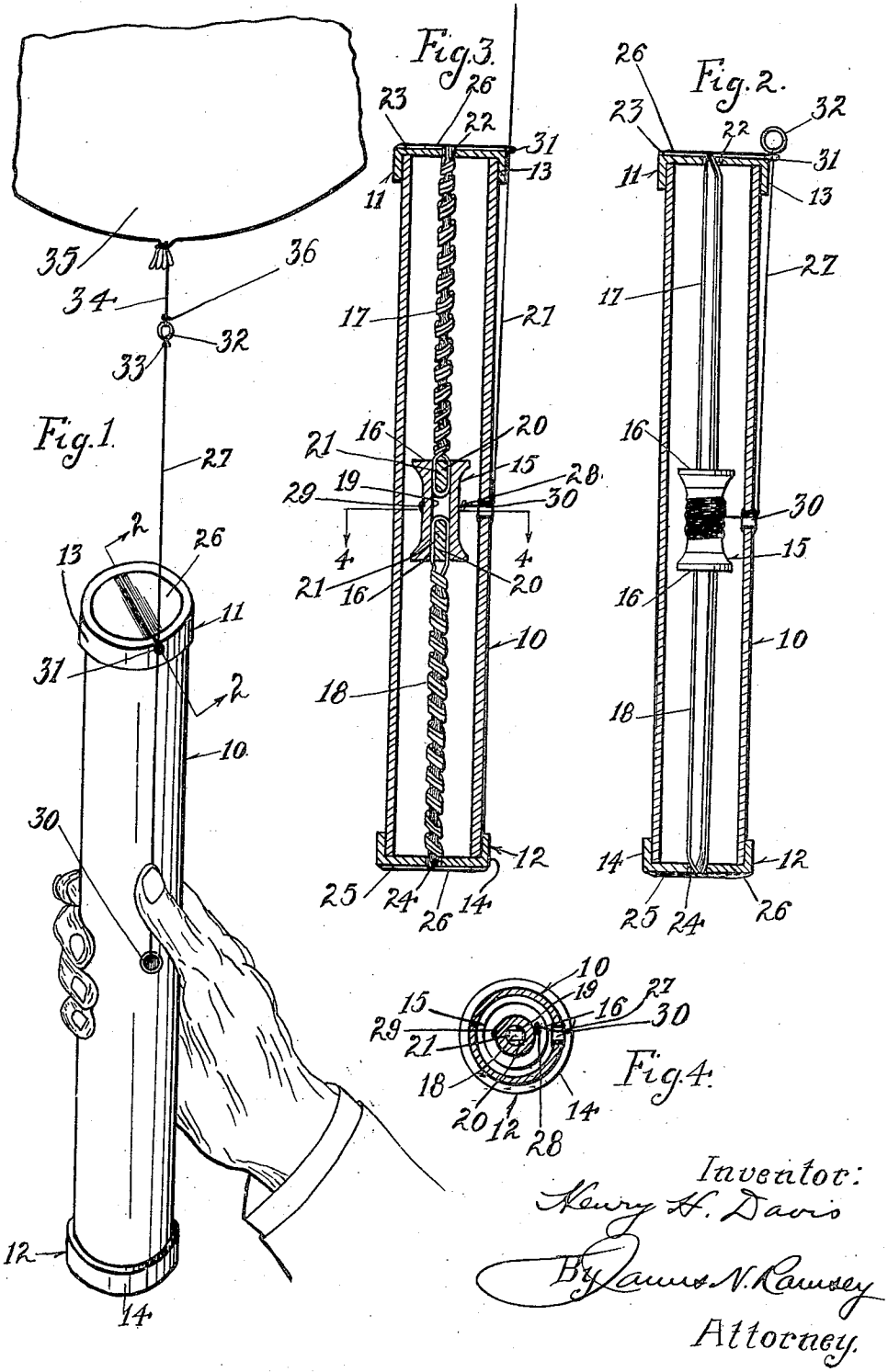
H. H. DAVIS.

REEL FOR TOY BALLOONS.

APPLICATION FILED JUNE 20, 1921.

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HARVEY H. DAVIS, OF NEWPORT, KENTUCKY.

REEL FOR TOY BALLOONS.

Application filed June 20, 1921. Serial No. 479,037.

To all whom it may concern:

Be it known that I, HARVEY H. DAVIS, a citizen of the United States, residing in the city of Newport, in the county of Campbell and State of Kentucky, have invented certain new and useful Improvements in Reels for Toy Balloons, of which the following is a specification.

My invention relates to reels for toy balloons adapted to automatically rewind a cord attached to a toy balloon, after the same is released by hand.

My invention has for its object the provision of a reel adapted to rewind a cord attached to a captive toy balloon, and provide a greatly simplified construction whereby this is automatically accomplished.

My invention consists of a casing having an automatically spring actuated reel therein adapted to automatically rewind a cord attached to a captive toy balloon; further in the construction of the casing; further in the means for mounting the reel and springs therefor, and further in means of guiding the cord to the reel.

My invention further consists in the parts and combination and arrangement thereof as herein described and claimed.

In the drawing:

Fig. 1 is a perspective view illustrating my improved device and the manner of holding the cord when unwound.

Fig. 2 is a central vertical longitudinal section of my improved device taken in a plane corresponding to line 2—2 of Fig. 1 and showing the cord wound upon the reel.

Fig. 3 is a view similar to that shown in Fig. 2 but showing the cord unwound.

Fig. 4 is a horizontal cross section of my improved device taken on the line 4—4 of Fig. 3.

In the embodiment of my invention as illustrated a cylindrical tube 10 preferably formed of paper has caps 11 and 12 closing its ends. The cap 11 has a circular flange 13 thereon and the cap 12 has a circular flange 14 thereon. The ends of the tube are received within the flanges. A cord reel 15 having end flanges 16 is suspended within the tube as by being secured to one end of an elastic band 17 and to one end of an elastic band 18. The reel has a bore 19 therein in which the end of the bands are held by tapered plugs 20 wedged in the bore. The plugs have flats 21 thereon to permit the bands to pass between the walls of the bore and the plugs. The other end of the band 17 passes through a hole 22 in the cap 11 and is looped about a pin 23 held on the outside of the cap by tension of the band. The other end of the band 18 passes through a hole 24 in the cap 12 and is looped about a pin 25 held on the outside of the cap by tension of the band. The pins 23 and 25 are held against rotary movement by circular disks 26 preferably of sheet paper glued on the outside surface of the caps and over the pins.

A cord 27 is secured to the reel as by a loop 28 and glue 29, passes through an eyelet 30 in the side of the casing and an eye 31 formed on one of the pins. The other end of the cord preferably has a ring 32 secured thereto of larger diameter than the eye 31 on the pin as by a knot 33. The cord 34 of a toy balloon 35 may be secured to the ring as by a knot 36.

In assembling the device the cord is wound up on the reel and the bands put in place without being twisted. The cord of the toy balloon is tied to the ring 32 on the cord 27. When it is desired to allow the balloon to rise the cord is pulled by hand through the eyelet 30 and the eye 31 on one of the pins. This action rotates the reel which in turn winds up the elastic bands by twisting the same. (See Fig. 3). When the balloon has reached the desired elevation, the thumb or one of the fingers may be used to hold the cord stationary against the casing. When however the cord is released the tension created in the bands by pulling out the cord then acts to automatically rewind the same, pulling down the balloon until the ring 32 strikes the eye 31.

What I claim as new and desire to secure by Letters Patent is:

1. In a toy balloon winder, a casing, a rotatable reel, a plurality of elastic members adapted to suspend said reel within said casing, and a cord wound about said reel and adapted to be unwound and to be rewound automatically by the tension of said elastic members, substantially as set forth and for the purposes specified.

2. In a toy balloon winder, a casing, a pair of elastic bands, a rotatable reel suspended within said casing by having one end of each band secured to opposed ends of said casing and the other end of each band secured to said reel, and a cord wound about said reel and having one end secured thereto, said reel adapted to set up a ten-

sion in said bands when said cord is pulled therefrom and automatically rewind said cord by tension previously set up in said bands, substantially as set forth and for the purposes specified.

3. In a toy balloon winder, a closed cylindrical casing, a rotatable reel, a pair of continuous elastic bands each centrally mounted at one end to the cap thereof and at its other end to one end of said rotatable reel, whereby said reel is suspended, a cord wound about said reel and adapted to be unwound and to be rewound automatically by the tension of said elastic bands, substantially as set forth and for the purposes specified.

4. In a toy balloon winder, a casing comprising a tube and caps closing the ends of said tube, a rotatable reel, elastic members secured to said caps and the ends of said reel and holding the reel in suspension, a cord secured to said reel and wound thereon and guiding and leading means for said cord.

5. In a device of the character described, a casing, comprising a tube, caps closing the ends of said tube, and having holes therein, pins immovably held on the outside of said caps and over said holes, a reel, a pair of elastic bands, one end of each of said bands projecting through said holes and looped about said pins, the other end of each of said bands secured to said reel, an eye on one of said pins, an eyelet in said tube opposite said reel, a cord wound about and secured to said reel and adapted to pass through said eyelet and through said eye and a ring secured to said cord beyond said eye.

6. In a device of the character described, a cylindrical casing comprising a tube, caps closing the ends of said tube, and depending circular flanges on said caps received about the ends of said tube, said caps having holes therein, pins on the outside of said caps and over said holes, disks glued to the outside of said caps whereby said pins are immovably held, a reel, having a bore therein, a pair of elastic bands one end of each of said bands projecting through said hole, and looped about said pins, the other end of each of said bands retained in said bore of said reel, tapered plugs whereby said bands are secured in said bore, an eyelet in said casing adjacent said reel, an eye on one of said pins, a cord wound about and secured to said reel and passing through said eyelet and said eye, and a ring secured to the outer end of said cord beyond said eye.

HARVEY H. DAVIS.