

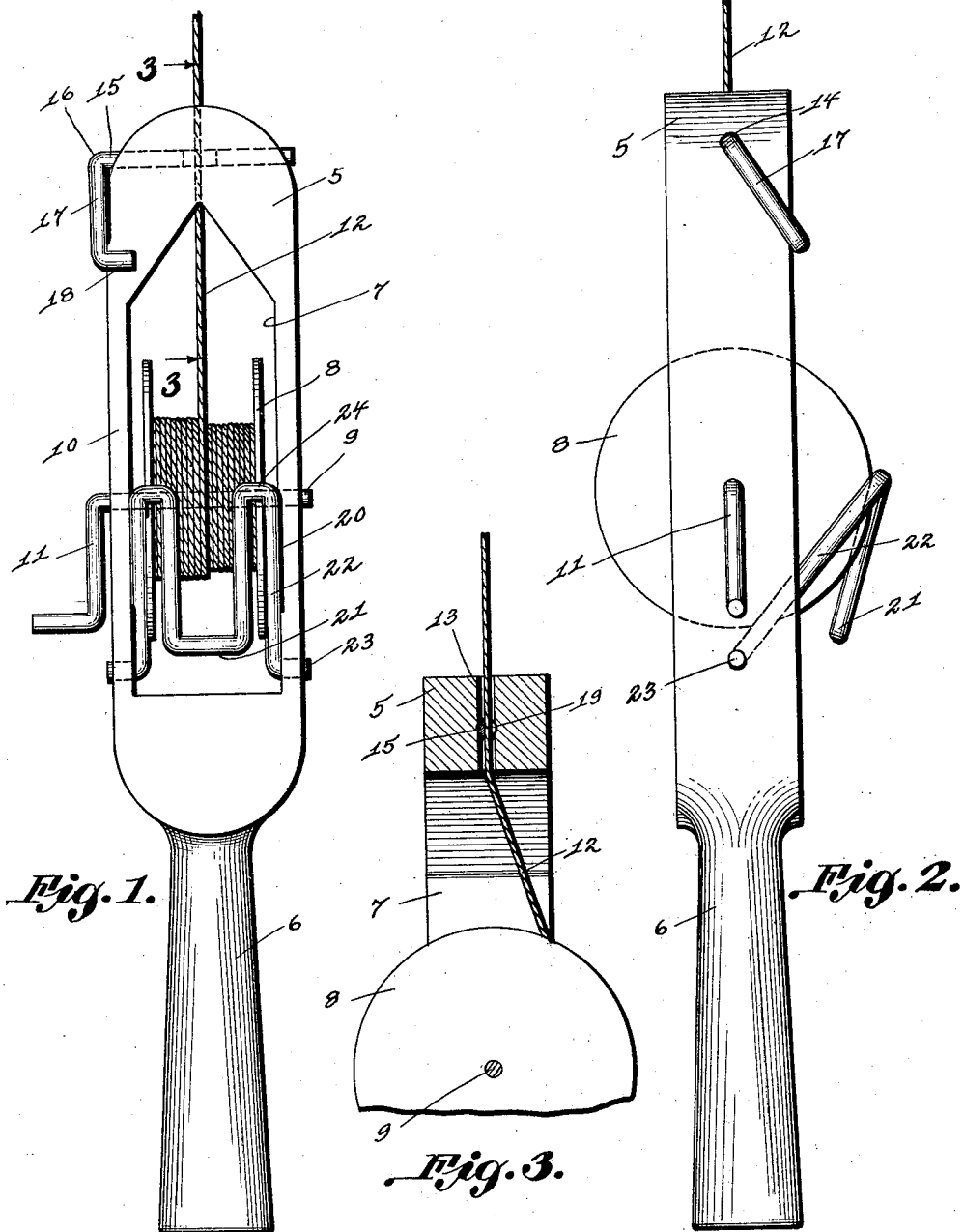
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KITE CONTROLLER

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KITE CONTROLLER

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My invention relates to kite controllers and has for its primary object to provide a hand frame having a reel mounted therein for winding and unwinding the kite cord thereon.

A further object of the invention is to a manually operated brake associated with the reel for controlling the speed at which the kite cord unwinds from the reel.

10 A still further object of the invention is to provide a clamping member for securing the kite cord against further unwinding, when the kite has reached the height desired.

Another object of the invention is to provide a device of the above-mentioned character which is simple and durable in construction, reliable and efficient in use and inexpensive to manufacture.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawing, forming a part of this specification and in which like numerals are employed to designate like parts throughout the same,

Fig. 1 is a front elevation view of the device,

Fig. 2 is a side elevation view of the same, and,

30 Fig. 3 is a longitudinal sectional view taken on lines 3—3 of Fig. 1.

In the drawing, wherein for the purpose of illustration, I have shown a preferred embodiment of my invention, the numeral 5 denotes an elongated frame, of substantially rectangular shape in cross section, having a handle 6 extending longitudinally from one end for holding the device in the hand of the operator. The frame is provided with a longitudinal slot 7, to receive the reel 8, mounted on the shaft 9, which is journaled in the side members 10 of the frame. One end of the shaft 9 extends beyond the side member 10 and is bent to form a crank 11, for turning the reel 8 to wind the kite cord 12 thereon. The upper end of the frame is provided with a central longitudinal passage 13 communicating with the slot 7, and through which the kite cord 12 is adapted to pass. Extending transverse-
50 ly through the upper end of the frame and

intersecting the passage 13 is an opening 14 in which the rod 15 of the clamping member 16 is rotatably mounted. One end of the rod 15 is bent at right angles forming a handle 17, the extremity of the handle being bent inwardly, as at 18, to engage with the frame and thereby limit the rotation of the clamping member. The rod 15 at its point of intersection with the passage 13 is notched, as at 19, and the kite cord 12 is disposed in the notch.

The brake 20 for controlling the speed of the reel when the kite cord is being unwound therefrom is formed from a piece of wire, bent intermediate its length to form a U-shaped lever 21, the ends of the wire being reversely bent to provide supports 22 which extend into the slot 7 and have there terminals bent to provide trunnions 23 which are journaled in the side members 10 of the frame. Thus, it is seen that the flanges of the reel 8 are disposed in direct line with the connecting portions 24 between the lever 21 and supports 22, so that the portions 24 frictionally engage the flanges of the reel when the brake is pushed forwardly by pressure on the lever 21.

In operation, it will be seen that by winding the kite cord 12 on the reel 8, the cord may be readily wound and unwound without danger of tangling the cord. When the kite is ascending and the cord is being unwound from the reel, the speed at which the reel is unwinding the cord may be controlled by pressing on the lever 21, of the brake 20 with the finger, which causes the portions 24 to frictionally engage the flanges of the reel, thereby retarding the rotation of the reel. After the kite has ascended to the desired height, the cord may be secured against further unwinding by rotating the rod 15 of the clamping member 16, by pressing on the handle 17, thereby bringing the sharp edges of the notch 19 into clamping engagement with the cord 12. Should the kite fall to the ground, the handle 17 of the clamping member is completely turned so as to bring the rounded surface of the rod 15 into engagement with the cord thereby taking up the

slack of the cord as it is wound upon the reel.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same and that certain changes in the shape, size and arrangement of the parts may be made without departing from the spirit of the invention or the scope of the subjoined claims.

10 Having thus described my invention, I claim:—

1. A device of the character described comprising a frame having a longitudinal slot, a reel rotatably mounted in the slot of said
15 frame, a cord wound upon said reel, said frame having a longitudinal passage in its upper end through which said cord is adapted to pass and a clamping member consisting of a rotatable rod extending transverse-
20 ly through the upper end of said frame and intersecting said passage, said rod having a notch in which said cord is disposed.

2. A device of the character described comprising a frame having a longitudinal slot,
25 a reel rotatably mounted in the slot of said frame and a brake for the reel consisting of a piece of wire bent intermediate its ends to form a pair of spaced U-shaped sections, the bight portions of which are engageable with
30 the respective flanges of the reel, the ends of the wire being pivotally mounted in the sides of the slot of the frame and the intermediate section of the wire constituting a thumb piece for moving the brake into and
35 out of engagement with the reel.

3. A device of the character described comprising a frame having a longitudinal slot, a reel rotatably mounted in the slot of said
40 frame, a cord wound upon said reel, said frame having a longitudinal passage in its upper end through which said cord is adapted to pass and a clamping member consisting of a rotatable rod extending transverse-
45 ly through the upper end of said frame and intersecting said passage, said rod having a notch in which said cord is disposed, one end of the rod being intumed for engaging the edge of the frame to secure the rod
50 against rotation.

In testimony whereof I affix my signature.

WILLIAM J. VOSS.