Jan. 6, 1931. C. G. JACOBI 1,787,479

PARACHUTE TRIP FOR KITES

Filed Feb. 20, 1930

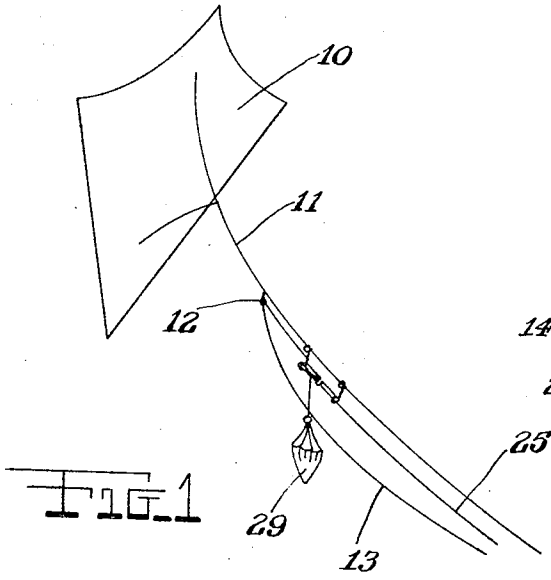


FIG. 1

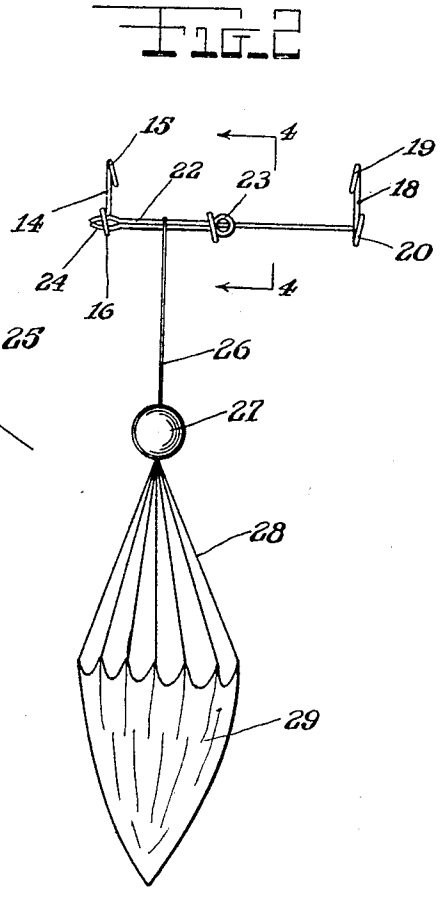


FIG. 2

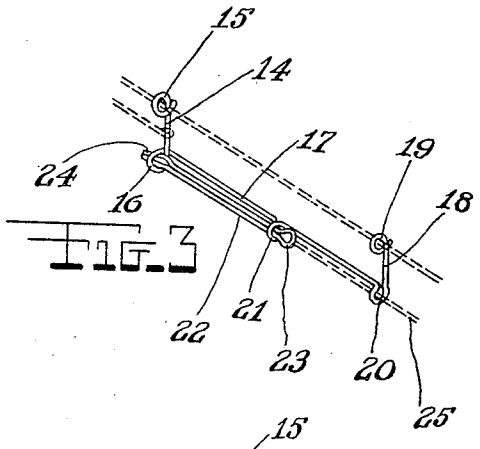


FIG. 3

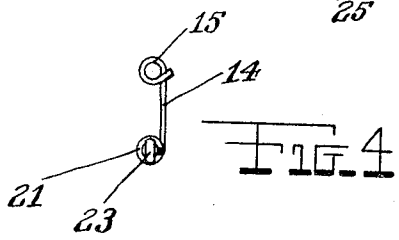


FIG. 4

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UNITED STATES PATENT OFFICE

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PARACHUTE TRIP FOR KITES

Application filed February 20, 1930. Serial No. 429,897.

The main object of this invention is to provide an educational and instructive toy for children in the form of a parachute release which is applied to the string of a kite. The device is so constructed that it may be moved the entire length of the kite string and a miniature parachute suspended from the mechanism may be released at any elevation.

The above and other objects will become apparent in the description below in which characters of reference refer to like-named parts in the drawing.

Referring briefly to the drawing, Figure 1 is a perspective view showing an application of the parachute release to the kite.

Figure 2 is a full size view of the parachute release showing the parachute in folded position suspended therefrom.

Figure 3 is a perspective view of the parachute release per se.

Figure 4 is a cross sectional view taken on line 4—4 of Figure 2.

Referring in detail to the drawing, the numeral 10 indicates a kite as it is flown in mid air. This kite is controlled by a flight string 11. At a position near the kite the string is formed into a loop 12, through which a shift string 13 of the release mechanism is passed. This shift string is secured to the arm 14 of the release mechanism. Said arm has formed at its one extremity an eyelet 15 through which the control string 11 of the kite passes. The opposite end of the arm 14 is also provided with an eyelet 16. From the eyelet 16 an extension 17 extends to a second arm 18. This arm 18 is provided with eyelets 19 and 20. An extension 17 has a loop 21 and a loop 16 in which are carried a bifurcated resilient finger 22, which at one end is formed into a ring 23 and its opposite end is provided with outwardly curvedly spread ends 24, a string 25 is secured to the ring 23 of the bifurcated finger and then passes through the loop 20 of the parachute release. The bifurcated finger is adapted to normally have suspended therefrom a carrying string 26 to which is attached a weight 27. The weighted member 27 has suspended therefrom strings 28 which are secured to the parachute 29, and which are carried by the release mechanism, said parachute being normally folded as is shown in Figure 2.

The device is adapted to be used when flying a kite and release a miniature parachute with a pull upon the string 25. These parachutes may be released at any elevation between the ground and the loop 12. The control string 11 of the kite has a loop 12 formed therein through which the shift string 13 of the release mechanism passes and then returns to the manipulator's finger. By pulling upon the string 13, the entire release mechanism may be raised along the line of the control string 11 of the kite. When a position has been arrived at by the release mechanism at which a parachute is to be dropped, the string 25 is pulled. This movement will slide the bifurcated finger 22 from the position between the loop 21 and the eyelet 16 to the position between the loop 21 and eyelet 20. This will strip the string 26 from the bifurcated finger and will cause the release of the parachute whose weighted end 25 falls first while the parachute 29 opens and slowly drifts to the earth. Gliders may also be carried in suspended position and dropped from any desirable altitude with this mechanism. These gliders may be conveniently contructed of a miniature type so that they have sufficient sustaining surface to fall to the ground in a spin.

It is to be noted that certain changes in form and construction may be made without departure from the spirit and scope of the invention.

I claim:

In a device of the class described a kite control string having a loop thereon secured to said kite, an independent parachute, a release mechanism for said parachute suspended therefrom, said release mechanism being movably mounted on said control string of said kite, said release mechanism comprising a pair of arms having eyelets thereon, a member connecting said arms, said member having a loop intermediate its length, said arms having loops at opposing ends, a bifurcated finger movable in

said loops on one of said arms and said connecting member and having curvedly spread ends, the ends being adapted to frictionally engage its loop and retain the finger in releasably locked position, said bifurcated finger when shifted being adapted to release said parachute, and a string connected to said release mechanism, said string passing through the loop in the control string of the kite and then extends to the operator and thence to the release mechanism.

In testimony whereof I affix my signature.

CHARLES G. JACOBI.