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PARACHUTE RELEASE FOR KITES

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Fig. 1.

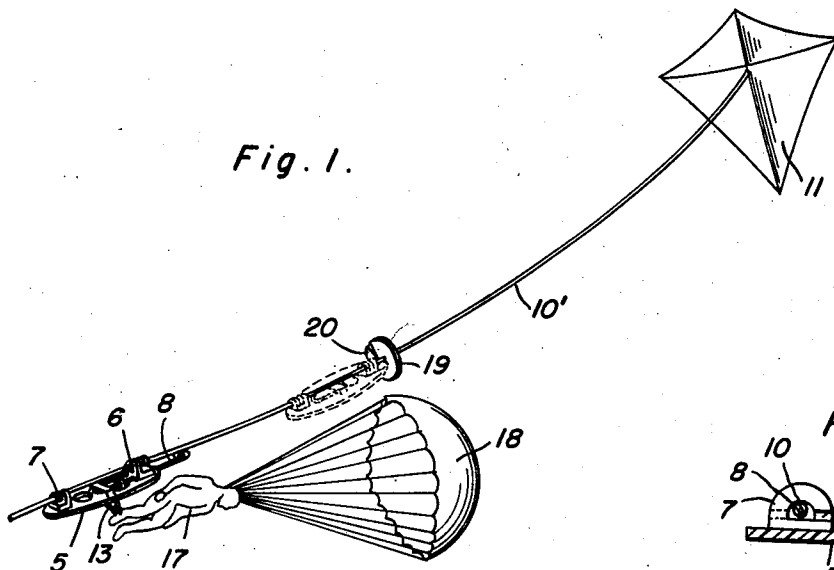


Fig. 4.

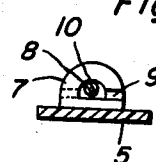


Fig. 2.

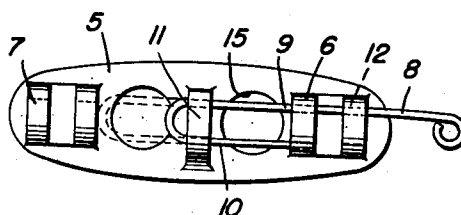
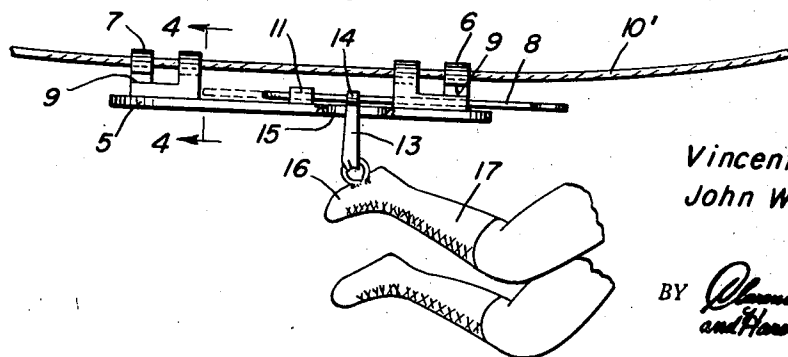


Fig. 3.



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PARACHUTE RELEASE FOR KITES

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1 Claim. (Cl. 244-155)

1

The present invention relates to new and useful improvements in kites, and more particularly to a toy parachute attachment therefor.

An important object of the invention is to provide a novel releasing mechanism for the parachute in the form of a slide mounted for movement up a kite string by a toy parachute attached thereto, and a stop on the kite string engaging a trip carried by the slide to release the parachute when reaching a predetermined height to enable the parachute to descend.

A still further object is to provide a device of this character of simple and practical construction, which is efficient and reliable in use, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view showing a toy parachute attached in position to the kite string; Figure 2 is an enlarged top plan view of the slide;

Figure 3 is a side elevational view thereof; and Figure 4 is a transverse sectional view taken substantially on the line 4-4 of Figure 3.

Referring now to the drawing in detail wherein for the purpose of illustration we have disclosed a preferred embodiment of the invention, the numeral 5 designates a slide plate having front and rear pairs of spaced parallel line guides 6 and 7 suitably secured to the upper surface thereof, each line guide having an opening 12 with an entrance slot 9 in one edge of the guide for receiving the line 10 of a kite 11 for positioning the line in the opening 12 of the guide. The entrance slots 9 for the pairs of guides 6 and 7 are positioned at the opposite edges of the guides to prevent accidental disengagement of the line from the guides.

A substantially hook-shaped trip 8 includes a shank portion 9 and bill portion 10 which is slidably mounted in a centrally disposed guide 11 on the plate 5 and with the shank and bill extending forwardly and also slidable in openings 12 in the front pair of guides 6.

2

A hanger 13 is formed with a loop 14 at one end inserted upwardly through an opening 15 in the plate 5 for receiving the bill portion 10 of the hook to hold the hanger in a suspended position beneath the plate 5. The lower end of the hanger is attached to the foot portion 16 of a toy figure 17 and to the head portion of which a toy parachute 18 is attached.

A stop plate 19 in the form of a disc having a radial slot 20 is attached in a suitable position on the kite string 10' by sliding the string inwardly of the slot 20 to frictionally hold the kite string at the center of the disc.

In the operation of the device the loop 14 of the hanger 13 is inserted in the opening 15 of slide plate 5 and engaged by the bill 10 of hook 8, the hook being moved forwardly of plate 5 to lock the free end of bill 10 in the opening 12 of the guide 6 as shown in Figure 2 of the drawing.

The slide plate 5 is then mounted on the kite string 10 by sliding the kite string through the slots 9 of the front and rear pairs of guides 6 and 7 to center the string in the openings 9 of the guides. The wind will then carry the parachute 18 with the figure 17 and slide plate 5 attached thereto upwardly on the kite string as shown in Figure 1 of the drawing until the front end of hook 8 engages the stop 19 whereupon the hook 8 will be moved rearwardly in the front guides 6 and intermediate guide 11 to release the bill 10 from the loop 14 whereupon the parachute and figure 17 are free to descend.

In view of the foregoing description taken in conjunction with the accompanying drawings, it is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claim.

Having described the invention, what is claimed as new is:

A toy parachute release for kite strings comprising a slide, a pair of longitudinally aligned apertured guides rising from each end of the slide for suspending the slide on a kite string, a hook

3

having a bill and being slidable longitudinally on top of the slide, guides for the hook closing the bill of the hook, a hanger having an open parachute attached thereto and releasably engaged on the bill of the hook in a suspended position from the slide, said hanger being released by a rearward movement of the hook and said slide being carried forwardly on the string by force of air currents subjected to the parachute, and a stop carried by the string in the path of the hook during forward movement of the stop to move the hook into its releasing position, said slide having an aperture therein through which said hanger depends from said bill and in which the hanger is confined during rearward movement of the hook to release said hanger.

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4

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
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