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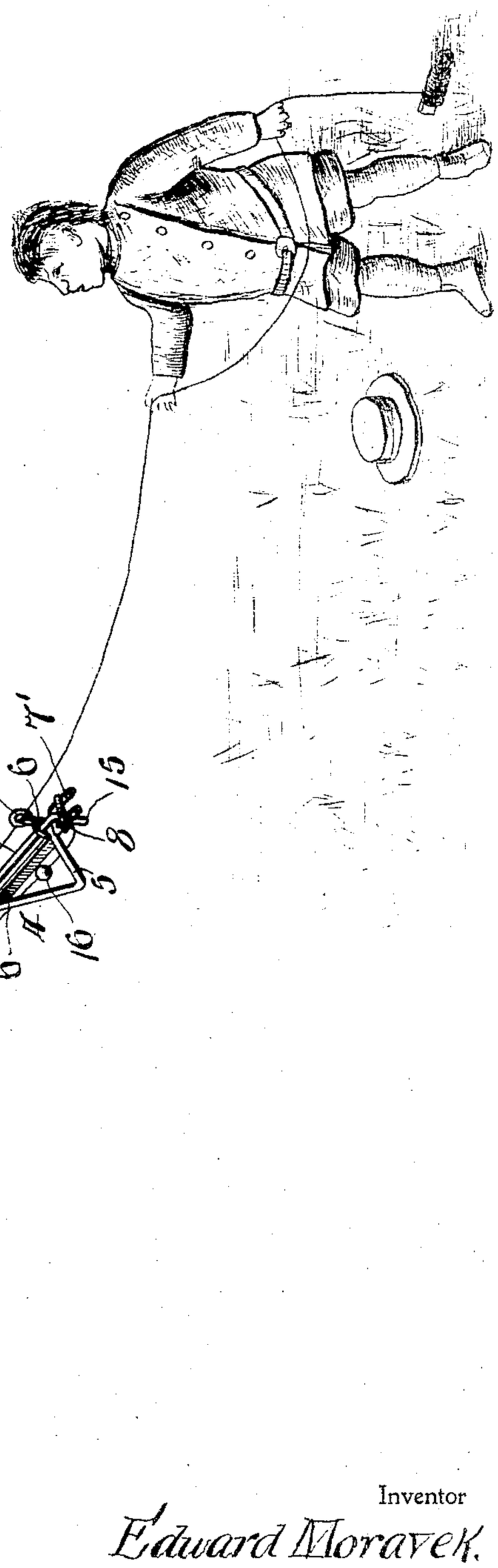
E. MORAVEK.

PARACHUTE DEVICE FOR KITES.

APPLICATION FILED NOV. 19, 1903.

NO MODEL.



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UNITED STATES PATENT OFFICE.

EDWARD MORAVEK, OF CHICAGO, ILLINOIS.

PARACHUTE DEVICE FOR KITES.

SPECIFICATION forming part of Letters Patent No. 764,749, dated July 12, 1904.

Application filed November 19, 1903. Serial No. 181,845. (No model.)

To all whom it may concern:

Be it known that I, EDWARD MORAVEK, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Parachute Devices for Kites; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in parachute devices for kites.

The object of the invention is to provide a device for carrying a parachute up a kite-string and releasing or discharging the same into the air at a determined point along said string.

A further object is to provide a device of this character which will be light in weight and on which may be mounted suitable mechanism by which the parachute carried thereby will be released and discharged into the air, a stop of suitable construction being arranged at a desired point on the string to actuate the releasing mechanism.

With these and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be more fully described, and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a perspective view illustrating the application of the invention. Fig. 2 is an enlarged detail perspective view of the device.

Referring more particularly to the drawings, 1 denotes a kite, which may be of any form desired.

2 denotes the cord or string by which the kite is held. At a suitable point on the kite cord or string is arranged a stop, which is here shown as a disk 3, through the center of which the cord is passed, knots being formed in the cord on each side of the disk to hold the same in place.

The parachute-carrying device 4, which is adapted to be engaged with the kite-string and run up the same, consists of a light open V-shaped frame 5, formed on its upper ends with bearing-openings 6, above which are formed guide-eyes 7, through which the kite-string is passed to support the device.

Between the side pieces of the frame 5 is arranged a thin strip 6, which forms a brace to hold said side pieces in proper position. Near the upper end of one of the side pieces is fixed a pair of fingers 7′ to support a pin 8, laid crosswise thereon and to which is secured the end of a parachute-holding cord 9, at the opposite end of which is secured the parachute 10.

In order that the parachute may be discharged from the carrier at the proper time, a suitable releasing mechanism is employed, which consists of a rod or bar 12, slidably mounted in the bearing-openings 6. One end of the rod 12 is bent upwardly, as at 13, and on said upwardly-bent end is formed an eye 14, through which the kite-cord passes. The opposite end of the rod 12 is bent downwardly to form a trip-lug 15 to slide between the fingers 7′ and displace said pin 8.

The parachute 10 may be of any form desired, but is here shown as formed of a hemispherical shell, which may be constructed of any light material and ornamented or inscribed in any suitable manner. To the parachute is secured the holding-cord 9, the opposite end of which is connected to the pin 8, supported upon the fingers 7′. A balancing weight or ballast 16 is arranged on the cord 9, of sufficient weight to right the parachute after the same is released from the carrier and maintain the equilibrium of the same during its descent to the ground.

In operation the carrier is placed on the kite-cord and is carried by the wind which engages the parachute up the cord until the upwardly-bent end 13 of the releasing-rod 12 strikes the stop-disk 3. The force of this contact will push the rod 12 rearwardly, thereby causing the downwardly-bent end of said rod to force the holding-pin 8 off the ends of the fingers 7′, and thereby releasing the holding-cord of the parachute, which will then drop. The balancing-weight 16 on the cord will cause the parachute to be righted and will so hold the same while it is descending to the ground. As soon as the parachute has been released the carrier-frame will return to the

ground, as there is nothing connected to the same now to catch the wind. While a parachute has been described as being carried up the kite-cord and released, it will be obvious that other objects—such as toys, advertising matter, and the like—may be also sent up and released, thus providing a novel way of distributing such matter.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A trolley device for kite-cords having spaced fingers forming a fork, a supporting device adapted to rest upon said fingers, an elevating element connected to said supporting device, and a trip device to engage and release said supporting device from said fingers.

2. A trolley device for kite-cords having a fork formed by spaced fingers, a pin resting crosswise upon said fingers, an elevating element adapted to be connected to said pin, and a trip device having a portion moving between said fingers in front of said pin and adapted to move rearwardly to force the pin off the fork, substantially as described.

3. A trolley device for kite-cords having spaced fingers forming a fork, a pin resting transversely on said fingers, an elevating element connected to said pin, and a trip device having a bent end projecting down between said fingers in front of said pin and adapted when moved rearwardly to displace the pin, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

EDWARD MORAVEK.

Witnesses:
FRANK STEISKAL,
JOHN L. NOVAK.