(No Model.)

W. J. KUNTZSCH.

TOY PARACHUTE.

No. 384,533. Patented June 12, 1888.

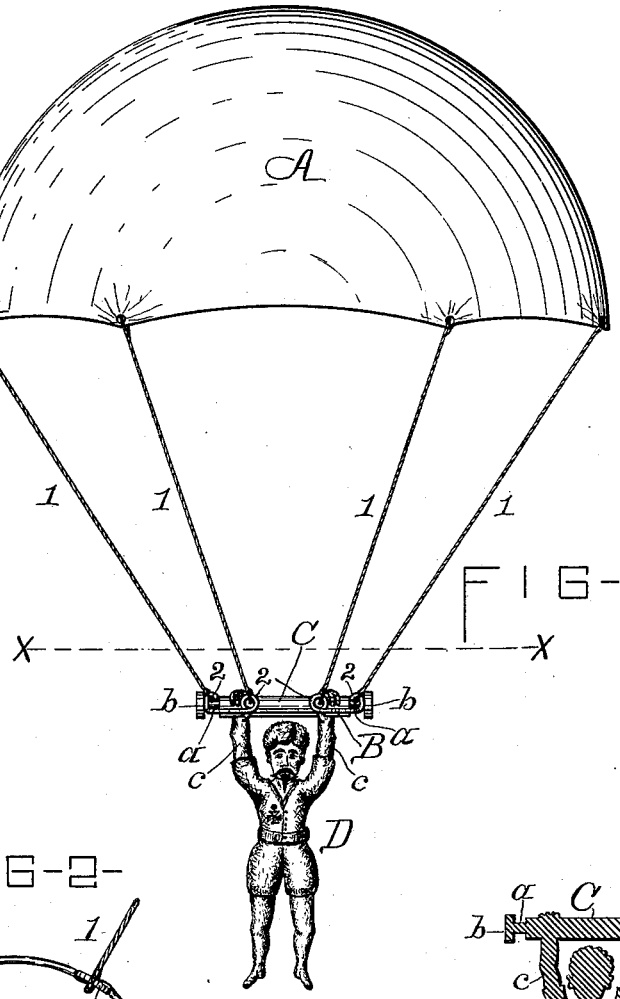

FIG-1-

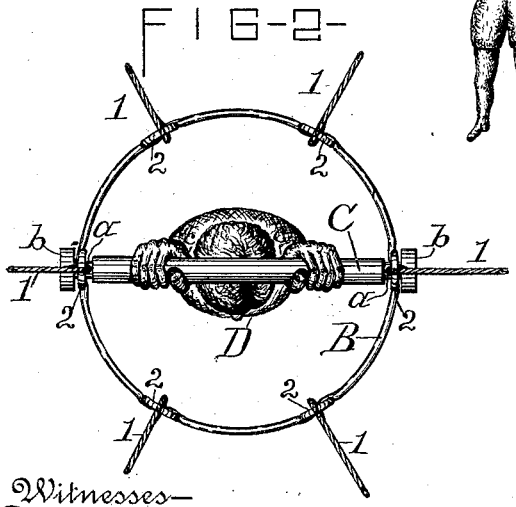

FIG-2-

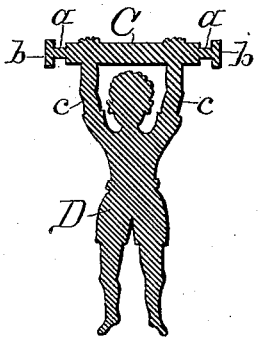

FIG-3-

Witnesses—
Carter N. Wicks
Joseph Keller

Inventor—
William J. Kuntzsch,
By his Attorney,
Wm. C. Raymond.

UNITED STATES PATENT OFFICE.

WILLIAM J. KUNTZSCH, OF SYRACUSE, NEW YORK, ASSIGNOR OF ONE-HALF TO FREDERICK A. KUNTZSCH, OF SAME PLACE.

TOY PARACHUTE.

SPECIFICATION forming part of Letters Patent No. 384,533, dated June 12, 1888.

Application filed February 14, 1888. Serial No. 263,958. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. KUNTZSCH, of Syracuse, county of Onondaga, in the State of New York, a citizen of the United States, have invented certain new and useful Improvements in Toy Parachutes, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation as it appears in descent; Fig. 2, an enlarged top plan view of the lower portion thereof, taken on line *x x*, Fig. 1, and Fig. 3 a longitudinal section of the suspension-bar and weight integral therewith.

Similar letters and figures of reference indicate corresponding parts throughout the several views.

My invention relates to that class of toys which are designed to be operated through propulsion, atmospheric resistance or buoyancy, and gravitation combined, and to provide for that purpose a toy device inexpensive and cheap to manufacture, of durable construction and reliable operation, is the object of my present invention.

It consists in the several novel features of construction hereinafter described, and which are specifically set forth in the claims hereunto annexed.

It is constructed as follows: A is the top or umbrella part of the parachute, (of about the shape shown,) constructed of muslin or other textile material, and without ribs.

At suitable intervals along the circumferential edge thereof I attach cords 1, of desired length, which extend downward to a ring, B, and secure thereto the loops 2 thereof, whereby said ends are held equidistant apart. This ring B and its loops 2 I construct from a single piece of wire, by suitable bending thereof, by means of proper tools, whereby the formation of the ring and integral loops is accomplished.

C is a horizontal suspension-bar, provided at its ends with a neck portion, *a*, having a head, *b;* and suspended from said bar and formed integral therewith is a weight, D, (in the form of a figure or object,) provided with arms *c c*, connecting the main body of the figure or object to the suspension-bar, said figure in the drawings representing a professional aeronaut.

The suspension-bar (and integral weight) is pivotally secured to the ring B by forming a loop around the neck portions *a a* at the time of the formation of the ring, by which construction and connection the suspension-bar (and integral parts) is allowed sufficient rotary movement, while the heads *b* retain it in position, and also prevent spreading apart of the ring from undue strain, &c.

The suspension-bar proper and its connected integral parts, including the weight, (object or figure,) I form of metal, cast in proper molds, whereby the manufacture thereof is rendered expeditious and cheap.

The lower portion of my parachute—viz., the parts above described—being constructed of metal, or other weighty material, causes it to maintain a substantially vertical position when descending through the air, and also renders it easier for the operator to throw or propel it upward into the air a greater height.

I operate my device as follows: Taking the lower or base portion of the parachute in my hand, I loosely wind the cords and connected umbrella part about it, and then throw it up into the air, whereupon the umbrella portion speedily opens and fills out under the sustaining or resisting force of the atmosphere, and the parachute gradually descends toward the earth.

It is obvious that my device may be propelled into the air by any suitable mechanical means, as well as by the direct action of the arm and hand.

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

1. In a toy parachute, a ring suspended from the umbrella portion provided with a suspension-bar having suspended therefrom and integral therewith a weight of desired configuration, substantially as described.

2. In a toy parachute, a horizontal suspension-bar provided at its ends with a neck portion and a head, and a weight, configurated as desired, connected therewith, said parts being integral and formed of cast metal, essentially as shown and described.

3. In a toy parachute, a horizontal suspension-bar formed at its ends with a neck portion provided with a head, and a weight of preferred configuration connected to the sus-

pension-bar by one or more arms or hangers, said parts being integral and formed of cast metal, for the purpose set forth and described.

4. In a toy parachute, a horizontal suspension or cross bar suitably journaled in the ring portion, a weight suitably configurated depending from said bar by a pair of arms or hangers, said suspension-bar, end portions, weight, and connecting-arms thereof being formed of one integral piece of cast metal, substantially as and for the purposes set forth.

5. In a toy parachute, an umbrella or sustaining portion, cords attached thereto and connected to loops on a ring, said ring portion and its loops being formed from a single piece of wire, a horizontal bar journaled in said ring and maintained centrally therein, and a weight of desired configuration suspended from said bar, said bar and weight being integral and formed of cast metal, all combined substantially as described, and for the purposes specified.

6. The combination, in a toy parachute, of the umbrella portion A, provided with cords 1, connected to the loops 2, formed integral with the ring B, the bar C, provided with the neck portions *a* and heads *b* and extending diametrically across said ring and journaled in loops thereon, and a weight, D, of desired configuration suspended from the bar C by arms or hangers *c c*, said bar and connected weight being integral and formed of cast metal, substantially as described, and for the purposes specified.

In witness whereof I have hereunto set my hand this 24th day of October, 1887.

WILLIAM J. KUNTZSCH. [L. S.]

In presence of—
WM. C. RAYMOND,
WM. BOON.