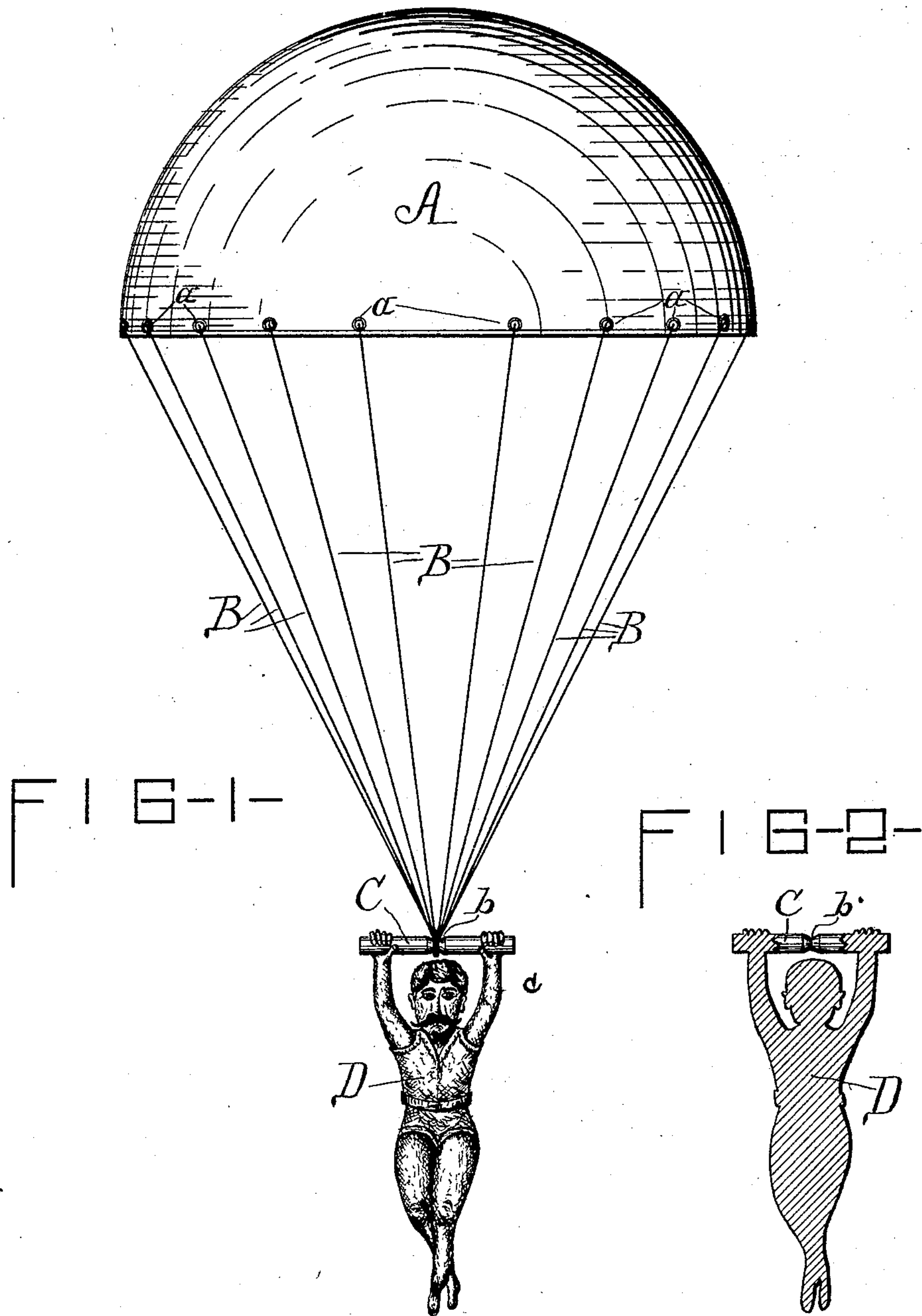


(No Model.)

W. J. KUNTZSCH.
TOY PARACHUTE.

No. 404,847.

Patented June 11, 1889.



Witnesses—

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UNITED STATES PATENT OFFICE.

WILLIAM J. KUNTZSCH, OF SYRACUSE, NEW YORK.

TOY PARACHUTE.

SPECIFICATION forming part of Letters Patent No. 404,847, dated June 11, 1889.

Application filed July 7, 1888. Serial No. 279,280. (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 descending through the air, and Fig. 2 a longitudinal section of the suspension-bar and weight integral therewith.

Similar letters 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 my object is to provide for that purpose a toy that is inexpensive to manufacture, of durable construction, and adapted for reliable operation. Moreover, the object of my present invention is to improve and simplify the device embodied in the Letters Patent of the United States granted unto myself and Frederick A. Kuntzsch, as assignee of a half interest, for a toy parachute, on June 12, 1888, and numbered 384,533, whereby the construction of said toy is greatly simplified and the cost of manufacture correspondingly lessened, and at the same time producing an article equal in durability of construction and ease and reliability of operation to my prior device.

My invention consists in the novel features of construction hereinafter described, and which are specifically enumerated in the annexed claim.

My device is constructed as follows: A is the top or umbrella part of the parachute, (of substantially the shape shown,) constructed of any suitable material—as, for instance, cloth or strong flexible paper—and is devoid of ribs. At suitable intervals along the circumferential edge of said umbrella portion I attach cords B, that are substantially of equal length; and I preferably insert eyelets *a* along the circumferential edge of the umbrella part, the attached ends of the cords passing through them, thereby obviating any

liability of the cords or twine tearing from their fastenings. These aforesaid cords extend downward convergently any preferred distance to a horizontal suspension-bar C, and the ends are tied or otherwise secured thereto at its center; and to prevent any possible slipping of the attached ends away from the center of the suspension-bar I preferably form at the central portion of the aforesaid bar an annular groove or depression *b*, wherein the meeting ends of the respective cords are wound and tied.

The suspension-bar C is provided with a weight D, (in the form of a figure or object,) suspended therefrom and formed integral therewith, the said configured weight being preferably provided with arms or hangers *c*, connecting the main body of the figure or object to the suspension-bar, said figure in the drawings representing an aeronaut or athlete.

The suspension-bar and the connected weight, of desired configuration, I preferably form of one integral casting, cast in suitable molds, whereby its manufacture is rendered expeditious and cheap.

The lower portion or base of my parachute—viz., the suspension-bar and connected configured weight—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 easy for the operator to throw or otherwise propel it upward into the atmosphere a great height.

My toy parachute is operated as follows: I carelessly fold up the top or umbrella portion, the configured weight lying underneath, place it in the palm of my hand, and toss 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.

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

The combination, in a toy parachute, of the umbrella portion A, having the attached cords B, converging downwardly to a com-

mon meeting-point and suitably secured to
the horizontal bar C in an annular groove *b*,
formed centrally thereon, and a weight, con-
figured as desired, pendent from said bar,
5 said bar and weight being integral and
formed of cast metal, substantially as de-
scribed, and for the purposes specified.

In witness whereof I have hereunto set my
hand this 25th day of June, 1888.

WILLIAM J. KUNTZSCH. [L. S.]

In presence of—

WM. C. RAYMOND,

WM. BOON.