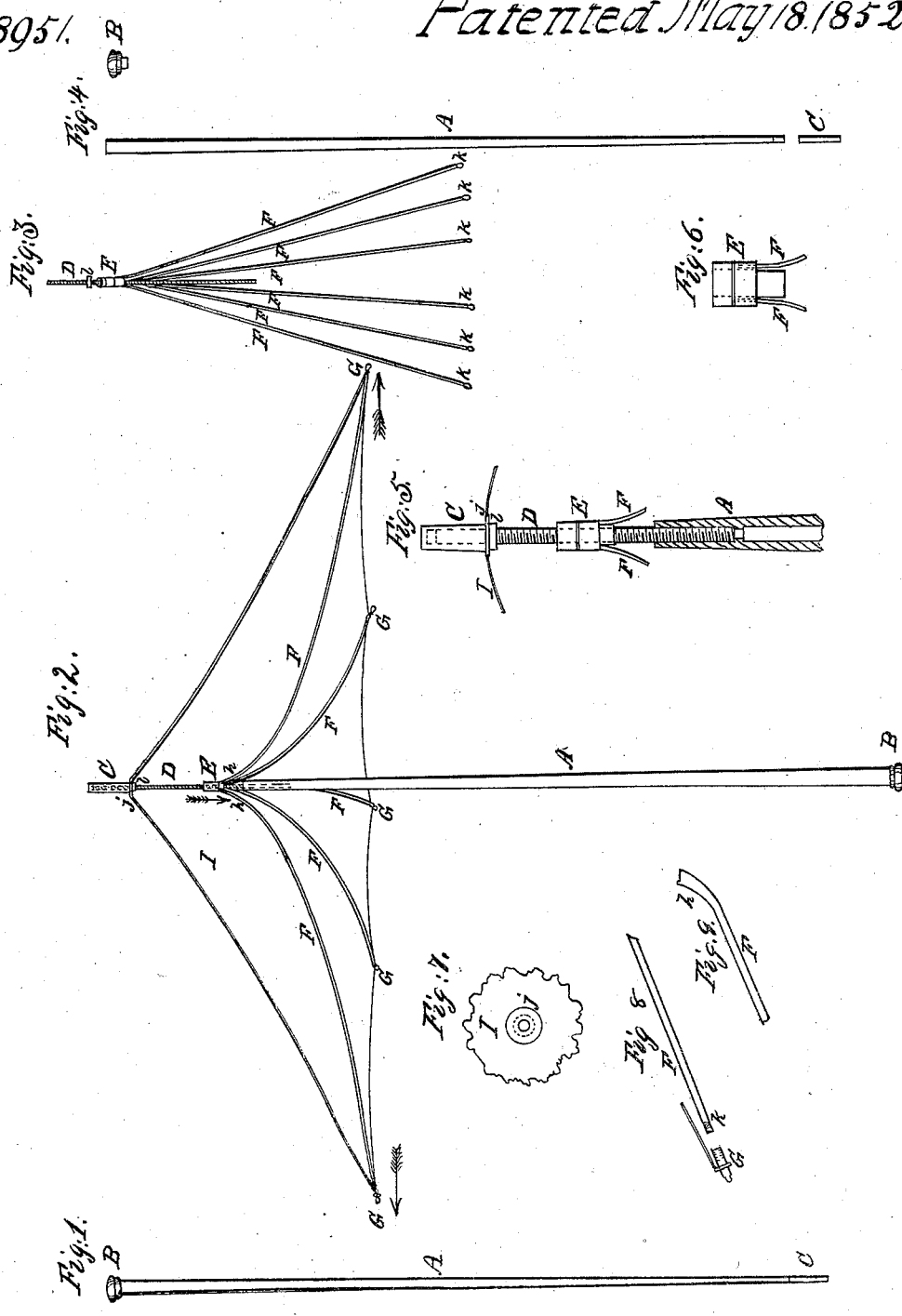


I. V. Tibbets
Cane & Umbrella.

N^o 8951.

Patented May 18, 1852.



UNITED STATES PATENT OFFICE.

I. V. TIBBETS, OF NEW YORK, N. Y.

UMBRELLA.

Specification of Letters Patent No. 8,951, dated May 18, 1852.

To all whom it may concern:

Be it known that I, I. V. TIBBETS, of New York, in the county and State of New York, have invented a new and Improved Portable Umbrella, termed the Cane and Pocket Umbrella; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a view of the article when used as a cane, the several parts forming the umbrella being inclosed within it, with the exception of the cover. Fig. 2, is a vertical section showing the arrangement of the several parts when used as an umbrella. Fig. 3, is a view of the frame of the umbrella. Fig. 4, is a view of the cane or case with the knob and ferrule detached. Fig. 5, is an enlarged view of a portion of the frame. Fig. 6, is an enlarged view of slide. Fig. 7, is a view of a cap or washer on the top or apex of the cover. Fig. 8, is a section of one of the rods of the frame—the lower part. Fig. 9 is a section of the upper part of one of the rods of the frame.

Similar letters of reference indicate corresponding parts in each of the several figures.

The nature of my invention consists in having a certain number of steel rods brought to a spring temper and attached at their tops either by springs or joints to a slide, said slide being placed upon a vertical rod, this forms the frame.

A cover of the required shape is placed over the frame and is secured to the lower part of the rods by small swivels which are attached to the cover and screw on to a thread cut on the ends of the rods—the cover being secured at the top by means of a button, and the slide being made to descend by means of a screw or otherwise, the rods expand by means of the springs or joints as the slide descends, till the rods and cover are sufficiently distended to form a sufficient protection from the weather.

Construction.—A is the cane which being hollow forms a case for the umbrella frame, constructed of metal or any other suitable material and of a conical form.

B is the knob, which slides or screws into the top of the cane. C, is the ferrule attached to the cane in a similar manner.

D, Figs. 2, 3, and 5, is a vertical rod having a double or quick thread cut upon it upon which the slide E rises or falls according as the rod D is turned slide E having an aperture and female thread cut through its center for the rod D to work through.

F F F F F are light cylindrical rods constructed of steel and brought to a spring temper the upper parts of which are flattened thus forming a spring, as seen at (h) in Fig. 9, the upper parts of these rods are inserted or fastened into the slide in any desirable manner, seen more particularly in Figs. 5 and 6. On the lower end of each rod a small thread (k) is cut Figs. 3 and 8—the vertical screw rod D, slide E, rods F, F, F, F F F, and a small button or stop (l) permanently attached to the screw rod D the use of which will be presently described, constitutes the frame of the umbrella which fits snugly into the interior of the case or cane A, and is seen as a whole in Fig. 3.

I is the cover cut the required shape and made of any suitable material, and placed over the frame, in Fig. 7 a section of the top of the cover is seen with the small cap or washer j attached to it this cap or washer has a small aperture through its center and through which the top of the vertical screw rod D passes till it reaches the small button or stop l, there is also another cap or washer directly underneath the cloth (not seen) the use of the caps is to prevent the top of the cover from being torn when forced out by the action of the rods.

G, G, G, G, G, Figs. 2 and 8 are swivels attached to the lower part of the cover and at points opposite the different rods there it a female thread cut in them so that they may screw upon the thread (k) on the ends of the rods F, F, F, F, F, F, they are encompassed by a small ring one end of which is attached to the cover so that it is not twisted in screwing them on the rods.

To insure strength strips of tape or ribbon may be sewn on the inside of the cover reaching from the center of the top down to the swivels, which will prevent the whole strain caused by distending the rods coming upon the cover.

Operation.—We will suppose the affair to be in the form of a cane as seen in Fig. 1.—the first thing to be done in order to convert it into an umbrella is to draw out the

knob B, and also the ferrule C, the frame is then withdrawn from the interior of the cane, and the lower end of the vertical screw rod D is screwed down into the end of the cane till it reaches and fits into a socket and becomes permanent, see Fig. 5, the cover is then withdrawn from the pocket (where it may be carried with as little inconvenience as an ordinary handkerchief) and put over the frame, the top of the vertical screw rod D passing through the aperture (*j*) in the caps till stopped by the button or stop (*l*), the swivels G, G, G, G, G, are then screwed on to the ends of the rods F, F, F, F, F, the ferrule C is then screwed on the top of the screw rod D, and forms the umbrella tip, the cane which is now the umbrella handle is turned from left to right, and the slide E is made to descend by means of the screw cut on the rod D, and the springs *h, h, h, h, h*, of the rods F, F, F, F, F, yielding to the downward pressure the rods are expanded or forced out the proper distance forming a perfect umbrella.

25 The rods F, F, F, F, F, may be attached to the slide E by springs or small joints.

The slide E may be made to rise and descend by means of a screw as represented or it may work on a smooth rod, be raised or lowered by the hand and regulated by a spring.

The advantage I obtain by my mode of opening and closing the umbrella frame is the small number of parts that is required to form the frame, no braces or arms are required, neither is it necessary to have as many rods as is required in the old method, my frame can therefore be put in less space

than others, and is extremely useful where portability is required. 40

The improvements herein described are equally applicable to the parasol.

Having thus described my invention, and the manner of using the same,—I wish to state, that I do not lay special claim to the device consisting of a female screw slide E, working over, or on a screw rod D, and operating together, for opening and closing the frame of the umbrella,—as the devices to effect this, may be varied,—but 50

What I do claim as my improvement and desire to secure by Letters Patent, is—

1. Distending or opening the umbrella, by the rods F, which have heretofore simply served as stays to the covering, and been permanently attached thereto,—the covering being secured to the apex of the central rod D, and the lower ends of the distending rods F;—and this I claim whether the inner ends of the distending rods be made to descend, or the central rod to ascend with the apex of the covering in distending the umbrella. 60

2. I also claim the manner of securing the cover I, to the frame, viz.—by means of swivels G, G, attached to the cover, and screwed onto the ends of the rods F, as herein described. 65

3. I also claim the application of the springs *h, h*, of the rods F, to the slide E, operating in the manner and for the purpose described. 70

I. V. TIBBETS.

Witnesses:

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