

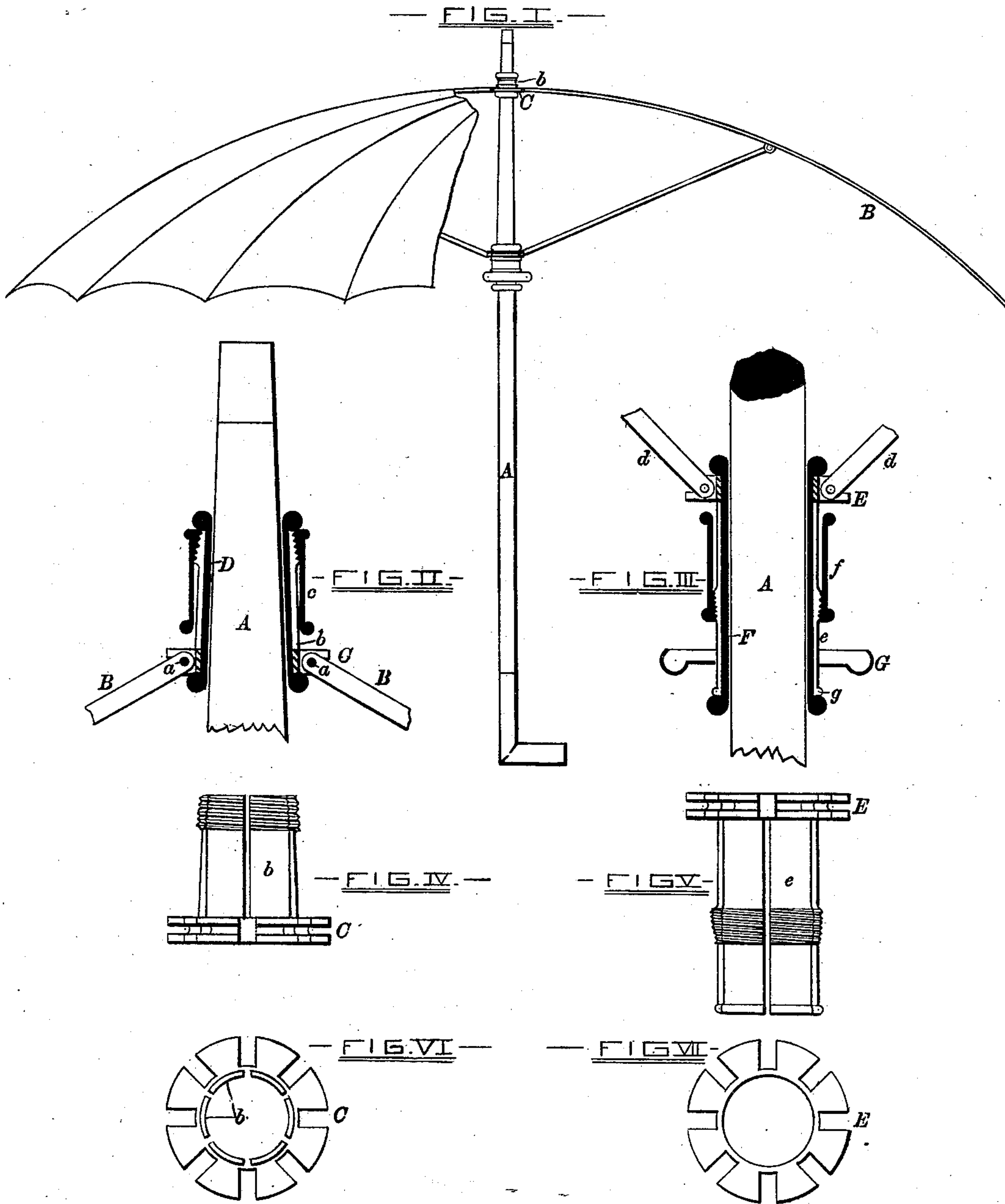
(No Model.)

G. T. SMITH.

COMBINED CANE AND UMBRELLA.

No. 253,897.

Patented Feb. 21, 1882.



—WITNESSES—

*W. L. Langley*  
*Harry V. Albough*

—INVENTOR—

*Gilbert T. Smith*  
*by G. H. Howard*  
*Atty -*

# UNITED STATES PATENT OFFICE.

GILBERT T. SMITH, OF BALTIMORE, MARYLAND.

## COMBINED CANE AND UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 253,897, dated February 21, 1882.

Application filed April 15, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, GILBERT T. SMITH, of the city of Baltimore and State of Maryland, have invented certain Improvements in Umbrellas, of which the following is a specification.

This invention relates to a peculiar construction of the frame of the umbrella, whereby the same can be readily attached to or detached from the central stick, which in itself is devoid of any fastening devices.

It also relates to means for preventing the defacement of the stick, which is intended to be used, independently of the frame, as a walking-cane. The construction of the devices whereby the frame is attached to the stick may, however, be used in umbrellas where the removal of the stick for walking purposes is not intended, and in connection with the ordinary sliding mechanism to which the frame-braces are hinged.

In the further description of my said invention which follows reference is made to the accompanying drawings, forming a part hereof, and in which—

Figure I is a view of an umbrella in an extended condition with a portion of the cover removed to show the invention. Fig. II is a sectional view of the upper end of the frame and a portion of the stick on an enlarged scale. Fig. III is a similar view of the part of the frame to which the frame-braces are hinged, also enlarged. Figs. IV, V, VI, and VII are exterior views of parts of the invention, also on an enlarged scale.

Similar letters of reference indicate similar parts in all the views.

A is the stick, and B B are the ribs, forming a portion of the frame of the umbrella. The upper ends of the ribs are hinged to a collar, C, by means of a wire, *a*, in the ordinary manner, and the said collar is provided with a cylindrical extension, *b*, having a tapered thread at its end. The extension *b* of the collar C is slotted longitudinally, as shown in Fig. IV, in order to admit of its contraction around the stick A by means of a nut, *c*, screwed thereon.

D is an india-rubber sleeve having corded ends, confined within the collar C and its ex-

tension *b*. The india-rubber sleeve is of such size as to admit of its being readily moved along the stick A when not tightly clasped; but it is readily reduced in diameter and made to closely fit the stick by the diametrical contraction of the extension *b* of the collar C by means of the nut *c*.

E is a collar similar to the one C, to which the rib-braces *d* are hinged. This collar is also provided with a slotted extension, *e*, and is fitted with a nut, *f*, as shown. The collar E and its slotted extension *e* are separated from the stick A by means of an india-rubber sleeve, F, which corresponds in its construction and office to the one D before described.

G is a clasp or tip-cup for the ends of the ribs when the umbrella is closed, adapted to slide on the extension *e*, between the thread and the projection *g*, around the lower end of the same.

The threaded portions of the slotted extensions *b* and *e* of the collars C and E are conical in shape, and have such taper as will admit of the necessary contraction of the said extensions to clamp the stick by a limited movement of the nuts *c* and *f*.

To secure the stick to the frame it is only necessary to tighten the nut *c*, which contracts diametrically the extension *e* of the collar C and the india-rubber sleeve D.

The umbrella is retained in an open or a closed condition by tightening the nut *f*, as will be readily understood.

I claim as my invention—

1. An umbrella consisting of a central stick, a complete covered frame connected to the said stick by means of diametrically-compressible collars, which admit of its removal without disorganization, and soft flexible elastic sleeves interposed between the said collars and the central stick, substantially as and for the purpose specified.

2. In an umbrella, the collar around the central stick, to which the ribs are hinged, provided with a diametrically-compressible extension and an inclosed soft elastic sleeve, and means for effecting the closing of the said extension around or about the said sleeve, substantially as and for the purpose specified.

3. In an umbrella, the collar to which the



rib-braces are hinged, provided with a diametrically-compressible extension having a soft elastic sleeve or lining, and means for effecting the closing of the said extension around  
5 or about the said sleeve, and the clamping of the central stick, substantially as and for the purpose specified.

4. The collars C and E, or either of them, having an internal soft elastic sleeve, substantially as and for the purpose specified.

GILBERT T. SMITH.

Witnesses:

WM. T. HOWARD,  
HARRY V. ALBAUGH.