

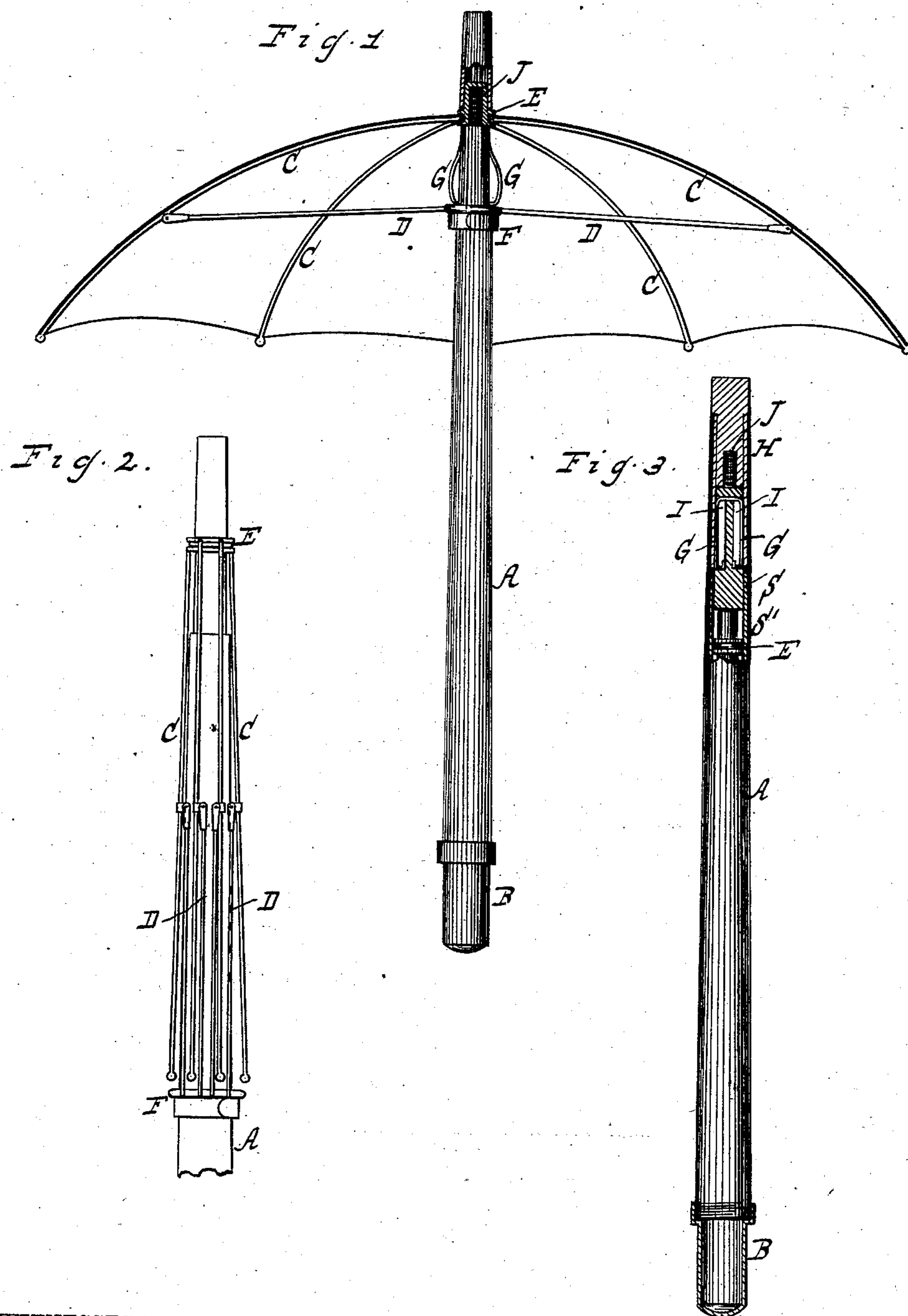
(No Model.)

H. A. WHITING & W. J. WINGHART.

COMBINED CANE AND UMBRELLA.

No. 293,830.

Patented Feb. 19, 1884.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

HENRY A. WHITING, OF BROOKLYN, AND WILLIAM J. WINGHART, OF  
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## COMBINED CANE AND UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 293,830, dated February 19, 1884.

Application filed November 22, 1883. (No model.)

*To all whom it may concern:*

Be it known that we, HENRY A. WHITING, a citizen of the United States, residing at Brooklyn, in the county of Kings, State of New York, and WILLIAM J. WINGHART, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Cane and Umbrella Combined, of which the following is a specification.

This invention relates to combined umbrellas and canes; and the improvements will be hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a longitudinal section, showing the umbrella applied to the cane and opened. Fig. 2 is a side view, showing the umbrella closed. Fig. 3 is a side view, partly in section, of the cane as it appears when the umbrella has been inserted therein.

Similar letters indicate corresponding parts.

The letter A designates the cane, which in this example is hollow, and open at one end to receive the umbrella, such open end being provided with a cap, B.

The letter C designates the ribs, and D the stretchers of the umbrella. Said ribs C are hinged to the crown-piece E, while the stretchers D are hinged at their outer ends to the ribs and at their inner ends to the runner F, in any usual or suitable manner. The stretchers, however, are so arranged that when the umbrella is opened the runner F moves somewhat above the extreme stretching-line, as shown in Fig. 1, while when the umbrella is closed the runner moves to a point beyond the extreme ends or tips of the ribs, as shown in Fig. 2, and by this means the runner is caused to retain its upper position without requiring the usual spring-catch, while the frame is adapted to fold into a slender compass. The upper position of the runner F is determined by stops G, (one or more,) which are arranged on the cane to arrest the runner, and are made in the form of springs, so as to be capable of yielding to a cap, H, which is placed thereon—namely, on the end of the cane—when the umbrella is detached from the cane, for concealing and protecting the stops.

To accommodate the spring-stops G the cane is provided with slots or openings I opposite thereto. The crown-piece C is screw-threaded internally, and on the closed end of the cane is formed a screw-nipple, J, adapted to engage the thread of the crown-piece, so that by simply adjusting the nipple into the crown-piece the proper connection of the umbrella and cane is produced. The screw-nipple J is of a less diameter than the body of the cane, so that the closed end portion of the latter forms a shoulder, against which the inner end of the crown-piece bears when in position. The screw-nipple J also serves to receive and hold the cap H on the cane, as shown in Fig. 3.

When the cane A is hollow, it is composed of a metal tube, s, covered with a layer, s', of vulcanized india-rubber, and by this construction the cane obtains the requisite strength, while it presents a very neat appearance.

Instead of india-rubber, any other similar material may be used—as, for example, celluloid.

What we claim as new, and desire to secure by Letters Patent, is—

1. The combination, in an umbrella-frame, of a series of ribs hinged to a crown-piece, and a series of stretchers hinged at their outer ends to the ribs and at their inner ends to a runner, which, when the frame is opened, moves somewhat beyond the extreme stretching-line of the stretchers, and when the frame is shut moves to a point beyond the extreme ends of the ribs.

2. The combination, with the cane and with the spring-stops which serve to arrest the runner when the umbrella-frame is opened, of a cap which is placed upon the cane to conceal and protect said spring-stops.

In testimony whereof we have hereunto set our hands and seals in the presence of two subscribing witnesses.

HENRY A. WHITING. [L. S.]  
WILLIAM J. WINGHART. [L. S.]

Witnesses:

CHAS. WAHLERS,  
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