

(No Model.)

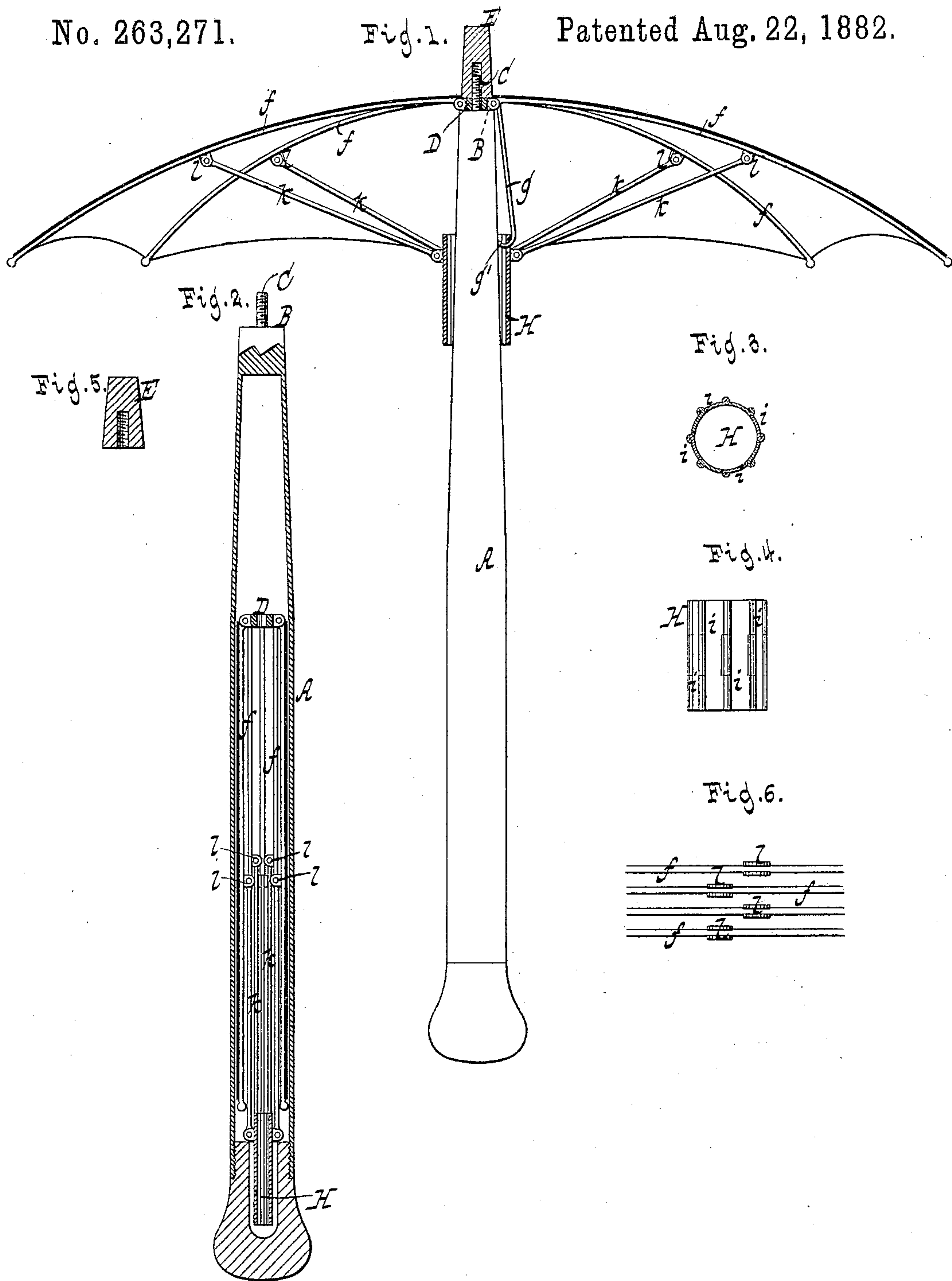
H. A. WHITING & W. J. WINGHART.

UMBRELLA AND CANE COMBINED.

No. 263,271.

Fig. 1.

Patented Aug. 22, 1882.



WITNESSES:

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UNITED STATES PATENT OFFICE.

HENRY A. WHITING, OF BROOKLYN, AND WILLIAM J. WINGHART, OF NEW YORK, N. Y.

UMBRELLA AND CANE COMBINED.

SPECIFICATION forming part of Letters Patent No. 263,271, dated August 22, 1882.

Application filed June 29, 1882. (No model.)

To all whom it may concern:

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

This invention relates to combined canes and umbrellas, also known as "umbrella-canes," wherein the parts composing the umbrella are detachable from and adapted to be inserted into the cane, the latter being hollow. The condition necessary to the success of an article of this character is that the umbrella shall fold up into a slender compass, and thereby permit the cane to be made of a small thickness or diameter, approximating the canes in general use; and with a view to the attainment of this object we have devised and adopted the novel construction and arrangement of parts herein-after described.

This invention is illustrated in the accompanying drawings, in which Figure 1 shows the umbrella, in sectional view, applied to the cane and in position for use. Fig. 2 is a similar view, showing the umbrella closed and inserted into the cane. Fig. 3 is a cross-section of the umbrella-runner. Fig. 4 is a side view thereof. Fig. 5 is a sectional view of the ferrule detached. Fig. 6 is a detail view, illustrating the arrangement of the eyes whereby the stretchers are attached to the umbrella-ribs.

Similar letters indicate corresponding parts.

The letter A designates the cane, which is made hollow, either wholly or a sufficient portion of its length to receive the umbrella. At or near one end of this cane is formed a shoulder, B, and the tip C, projecting outward from this shoulder, is provided with a screw-thread, while around it is fitted loosely a ring, D, forming the crown or center piece of the umbrella. On said tip, moreover, is fitted, by means of a suitable thread, a ferrule, E, so that if the crown-ring D is placed on the tip and the ferrule is screwed down thereon the ring is firmly

held against the shoulder B by the ferrule, it acting as a locking-nut, while, when the crown-piece is removed for detaching the umbrella, the ferrule can be screwed on the tip so as to cover and protect the latter. This means for attaching the crown-ring D is an extremely simple one, since it calls for but two threads, one to the tip and one to the ferrule, both of the same pitch, the ring itself being left plain, while it has the additional advantage of presenting a finished appearance when the ring is fastened.

To the crown-ring D are pivoted the umbrella-ribs *f*, and also a suspension-bar, *g*, serving to hold the umbrella in an opened position, this bar being provided with a hook, *g'*, or other similar device for engaging the umbrella-runner. (Marked H.) This runner H is made of a series of jointed pieces, *i*, of sheet metal or other similar material, having the joints extending lengthwise thereto, so that it is flexible in a transverse direction, and by this construction the runner is adapted to be contracted or collapsed when it is removed from the cane, together with the remaining parts of the umbrella, so that it occupies the least possible space.

The letter *k* denotes the stretchers whereby the runner H is connected to the ribs *f*. These stretchers are made longer than those of an ordinary umbrella, and are connected to the ribs *f* at such points that when the umbrella is closed the runner H is brought beyond or exterior of the tips of the umbrella-ribs, and hence the ribs and stretchers are adapted to be brought close together, due to the clearance of the ribs by the runner as well as the flexible condition of the latter.

The attachment of the stretchers *k* to the ribs *f* is effected by means of the usual rib-eyes, *l*; but these eyes are made to alternate with instead of being placed opposite to each other, as shown in Figs. 2 and 6, and by this arrangement the bulk or thickness of space occupied by the ribs at or opposite to the eyes when the umbrella is closed is reduced to a minimum.

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

1. The combination, substantially as herein-

before set forth, of the flexible runner with the crown-ring D, ribs *f*, stretchers *k*, and the hollow cane, for the purpose described.

5 2. The combination, substantially as herein-
before set forth, of the elongated stretchers and the flexible runner with the crown-ring D, ribs *f*, and the hollow cane, for the purpose specified.

10 3. The combination, substantially as set
forth, of the umbrella-ribs, having their eyes *l* arranged to alternate with each other, with the crown-ring D, stretchers *k*, runner H, and the hollow cane, for the purpose specified.

In testimony whereof we have hereunto set our hands and seals in the presence of two 15
subscribing witnesses.

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

Witnesses for Henry A. Whiting:

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