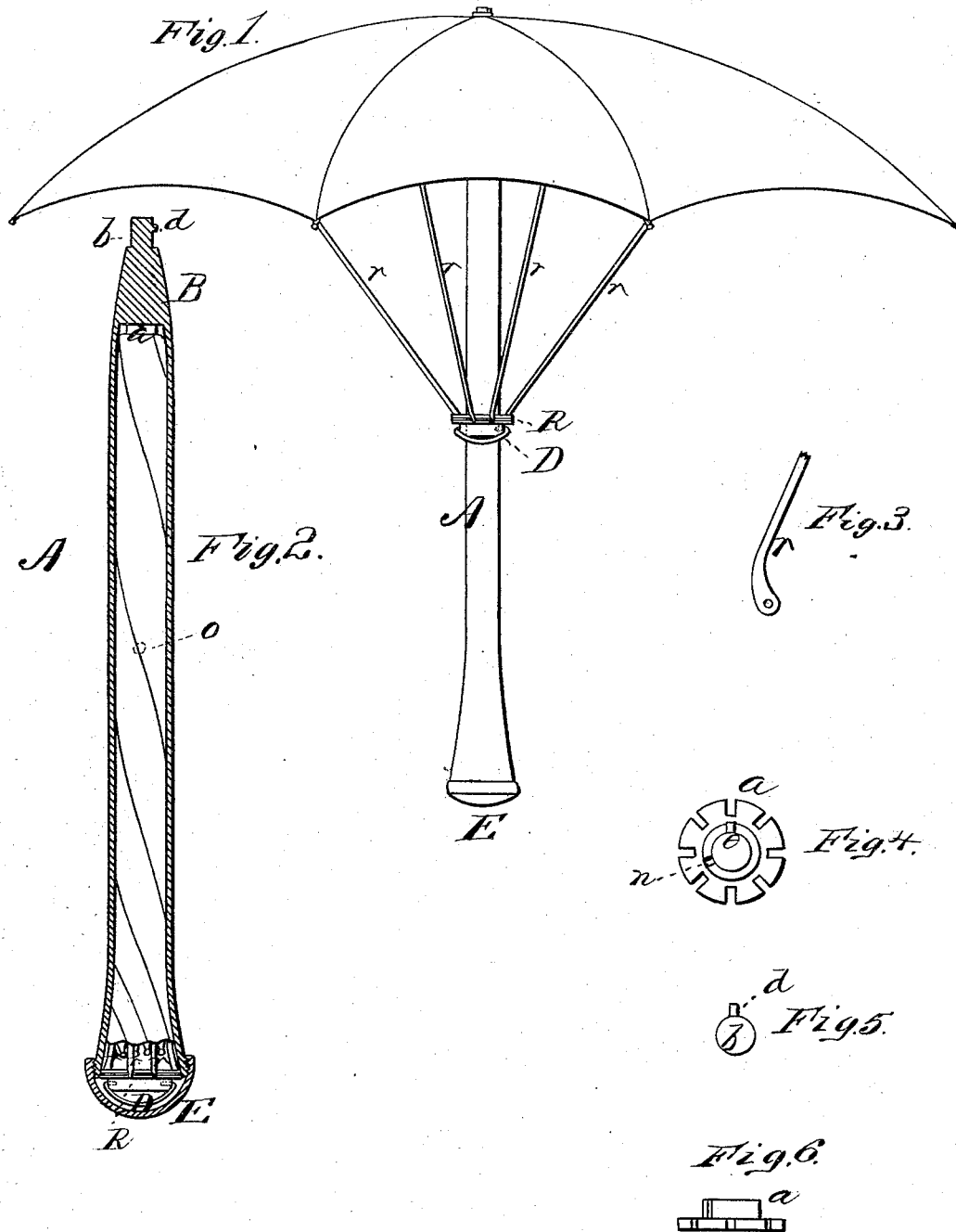


J. BOYD.

CANE AND UMBRELLA COMBINED.

No. 169,406.

Patented Nov. 2, 1875.



WITNESSES
Chas. Bates
Francis J. Clasi

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UNITED STATES PATENT OFFICE

JOHN BOYD, OF EAST BOSTON, MASS., ASSIGNOR OF ONE-HALF HIS RIGHT
TO CHARLES SMITH AND WILLIAM MCKINNON, OF SAME PLACE.

IMPROVEMENT IN CANES AND UMBRELLAS COMBINED.

Specification forming part of Letters Patent No. 169,406, dated November 2, 1875; application filed
July 3, 1875.

To all whom it may concern:

Be it known that I, JOHN BOYD, of East Boston, in the county of Suffolk and State of Massachusetts, have invented a new and valuable Improvement in Combined Umbrellas and Canes; 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, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a plan view of my device. Fig. 2 is a vertical central sectional view of the same; and Figs. 3, 4, 5, and 6 are detail views thereof.

This invention has relation to improvements in that class of umbrellas whereof the case is made of a rigid material, so that when the former is placed within the case the latter may be used as a cane.

The object of the invention is to dispense with a supplementary stick for the umbrella, thereby lessening its bulk, and to use the case itself as an umbrella-stick, as will be hereinafter more fully set forth and claimed.

In the annexed drawings, A designates a tubular casing for an umbrella, which is of adequate dimensions for receiving the ribs *r*, the annulus or ring *a* to which they are pivoted, and the covering whereby sun or rain is prevented from reaching the person of the carrier. The ferrule end of this tube is closed by a preferably tapering plug, B, terminating in a cylindrical rabbet, *b*, of suitable length, which may be of iron or steel, pointed or blunt, as I may elect. The diameter of the rabbet *b* is the same as that of the annulus or ring *a*, to which the ribs *r* of the umbrella are pivoted, and it is provided with a lug, *d*, radiating therefrom, for a purpose hereinafter explained.

The annulus or ring *a* is provided with a groove, *e*, transverse to its diameter, which allows the lug *d* on rabbet *b* to be passed through it, and to be locked in position by giving the tubular sheath A a slight turn,

thereby causing the said lug to be brought in line with a notch, *n*, in the upper edge of the said annulus, falling into which the umbrella will be locked against rotation independent of the said sheath or casing.

It will of course be understood that the runner R is of sufficient size to allow sheath A to be passed through it, and that a slight swell will be formed at the handle end of the sheath for the purpose of allowing the said runner to be received within the sheath.

Runner R is provided with a spring-bail, D, by means of which it is conveniently withdrawn from its sheath, which bail will have one of its ends extending through the cylindrical portion of the runner, so that when the umbrella is hoisted or raised the end of the said bail will be received into an opening, *o*, of corresponding size in the sheath, and will prevent the shade from being inopportunately lowered.

Instead of the above a spring may be secured to the cylindrical portion, with its end projecting through an aperture therein, which end will fall when the umbrella is raised into the said perforation.

Sheath or case A may be of iron, wood, vulcanized rubber, or of any other suitably rigid material, and when the umbrella is inclosed within it is designed to be closed by a head or cap, E, as shown in Fig. 1.

With a view to causing ribs *r* to lie snugly together, thereby reducing the bulk of the umbrella, their lower ends are bent, as shown in Fig. 6, the concavity of the curve being outward.

By this means the diameter, and consequently the bulk, of the sheath, will be decreased, thereby reducing the sheathing to a size such that it may be conveniently manipulated.

By sharpening the ends of rabbet *b* the combined umbrella is adapted to be successfully used as an alpenstock in mountain climbing.

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

1. The combination of a spring-bail, D, with

a runner, R, and a perforated sheath or case, A, substantially as specified.

2. The sheath A, having the rabbet *b*, and lug *d*, at its upper end, in combination with the annulus *a*, having the groove *e* and notch *n*, the rib *r*, runner R, and cover, substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN BOYD.

Witnesses:

F. J. MUNROE,
JOHN O. GRADY.