

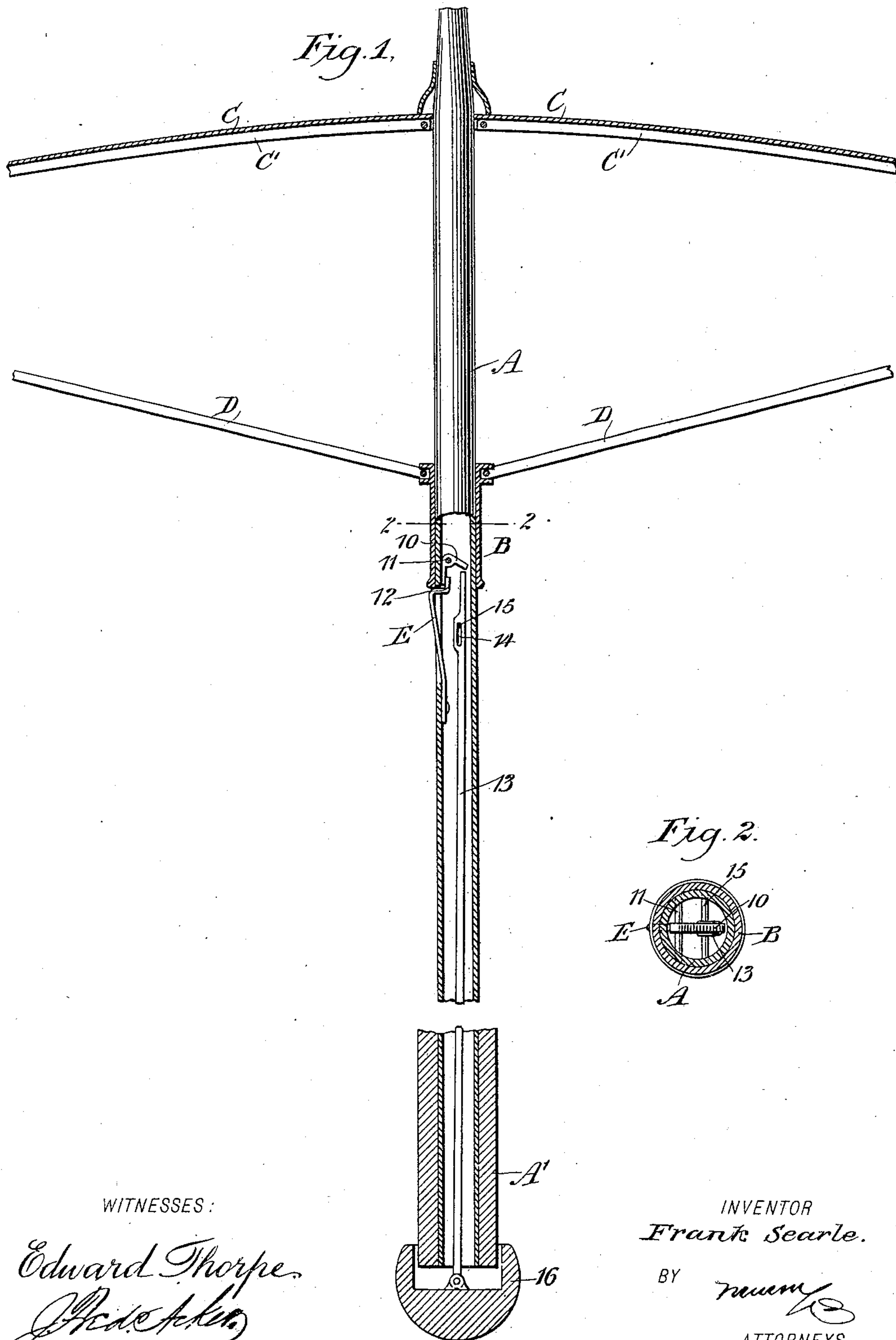
No. 616,736.

Patented Dec. 27, 1898.

F. SEARLE.
UMBRELLA ATTACHMENT.

(Application filed Apr. 21, 1898.)

(No Model.)



WITNESSES:

Edward Thorpe
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Frank Searle.

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UNITED STATES PATENT OFFICE.

FRANK SEARLE, OF ENNIS, MONTANA.

UMBRELLA ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 616,736, dated December 27, 1898.

Application filed April 21, 1898. Serial No. 678,359. (No model.)

To all whom it may concern:

Be it known that I, FRANK SEARLE, of Ennis, in the county of Madison and State of Montana, have invented a new and Improved Umbrella Attachment, of which the following is a full, clear, and exact description.

The object of my invention is to provide an attachment for umbrellas of such nature that when the umbrella is hoisted and a high wind, for example, removes it in an open condition from the grasp of the person carrying it the moment that when either the handle or the canopy end of the umbrella comes in contact with any object the runner of the umbrella will be immediately released, permitting the ribs to fold, thus preventing the liability of the wind carrying the umbrella to a distant point after it has once struck the ground or come in contact with any obstruction.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both figures.

Figure 1 is a vertical section through the cover of the umbrella, the runner, and a portion of the stick, illustrating the improvement applied to the stick; and Fig. 2 is a transverse section taken substantially on the line 2 2 of Fig. 1.

A represents the stick of an umbrella, B the runner, C the cover, C' the ribs, and D the stretchers, all of which parts may be of the usual construction; but the stick A is usually made hollow and is provided with a suitable handle A', likewise hollow. The ordinary spring E is employed for holding the runner B in its upper position, and above the said spring, within the stick A, an angle-lever 10 is pivoted, the pivot-pin 11 whereof is shown best in Fig. 2. One member of the lever 10 extends between the inner wall of the stick A and an inner or upper extension 12 from the upper portion of the runner-spring E, as is best shown in Fig. 1. A rod or plunger 13 is held to slide in the stick and in the handle, extending through the latter. This rod or plunger at its upper end is adapted to engage the other member of the angle-lever

10, as is also shown in Fig. 1, and ordinarily near the upper end of the rod or plunger an elongated opening 14 is provided, through which opening a pin 15 is passed, which pin is secured in the rod, as shown in Fig. 2, the pin 15 serving to limit the end movement of the rod or plunger. The lower end of the rod or plunger is attached to a weighted cap 16, which may constitute a portion of the handle A', having sliding movement thereon, or may be simply an ornament for the said handle. The cap 16 moves inwardly when either end of the umbrella strikes the ground, owing to the weight of the cap and to its freedom from connection with all parts except the rod 13.

In operation when the umbrella is raised the various parts will be in their ordinary position; but should the umbrella be wrenched from the hands of a person—for instance, by a violent wind—the moment that the stick of the umbrella strikes the ground or any obstruction the cap 16 will be forced inward or in direction of the ferrule end of the stick and the rod or plunger will be forced against the member of the lever 10, with which it is adapted to contact, and will force the opposite member of the lever inward, carrying with it the spring E, permitting the runner to slide down the stick and the canopy of the umbrella to close, which action will tend to prevent the wind acting further or to any great extent upon the umbrella.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of an umbrella-stick, a runner moving thereon, a holder carried by the stick and serving to sustain the runner, a rod mounted to move longitudinally within the stick and having connection with the holder whereby the runner is released, and a weighted cap mounted to move freely on the stick and having connection with the rod, the cap serving to move the rod to release the holder when the stick strikes endwise against an object stationary with reference to the stick.

FRANK SEARLE.

Witnesses:

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