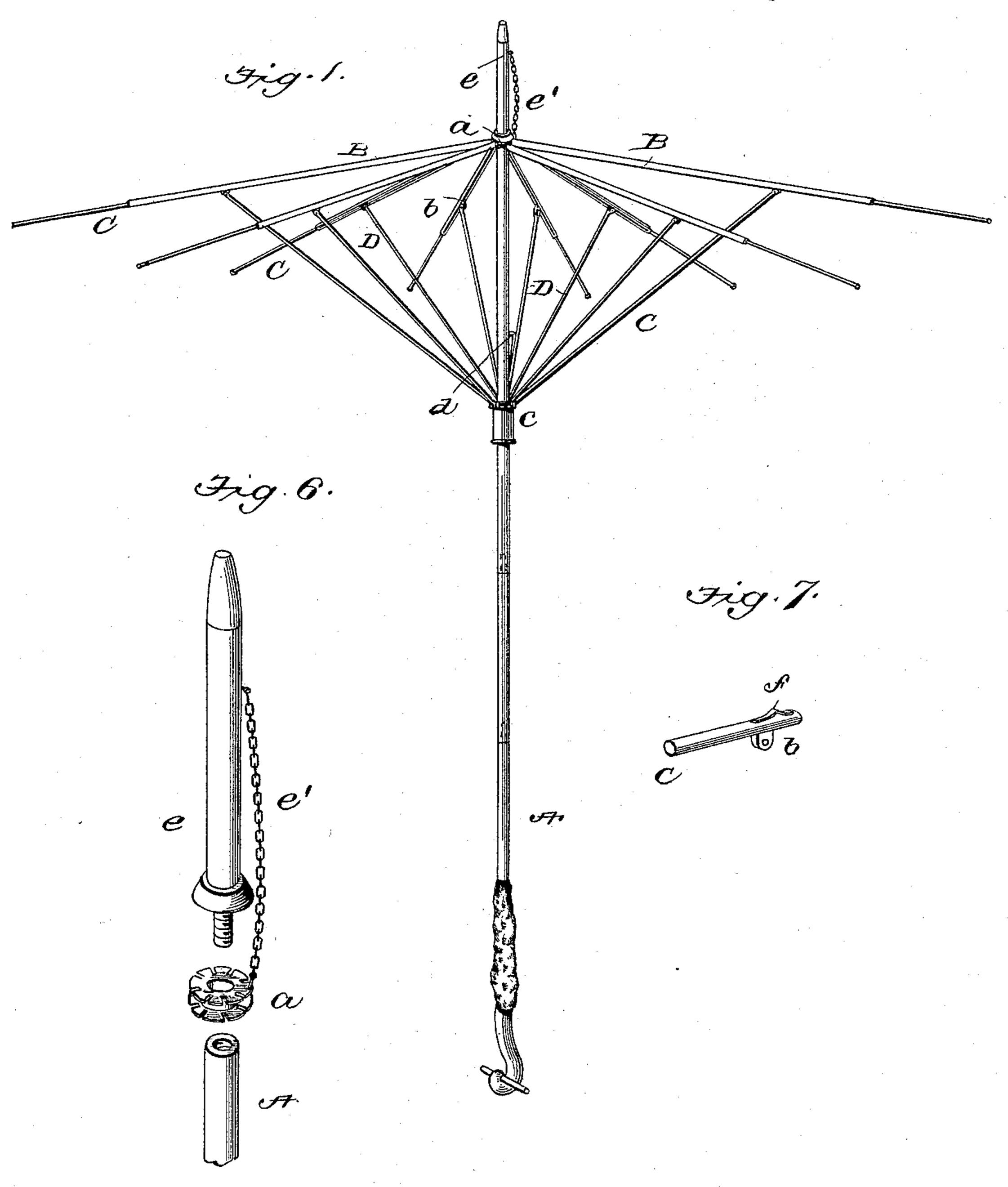
(No Model.)

2 Sheets—Sheet 1.

A. C. McDONALD. UMBRELLA.

No. 540,181.

Patented May 28, 1895.



Witnesses

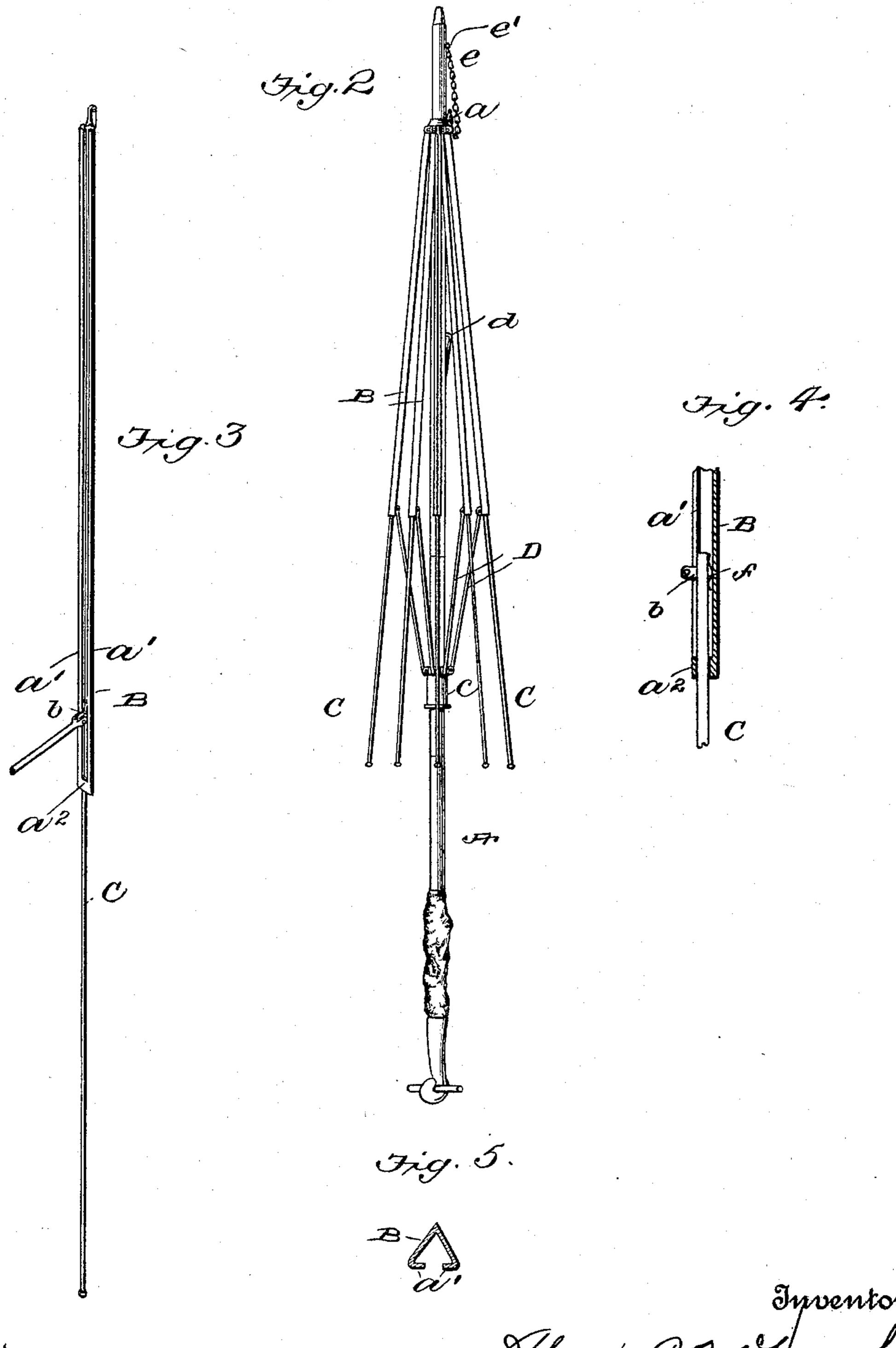
Samue Allson Alexis Madorald.
By SABloribana.

Cattorney

A. C. McDONALD. UMBRELLA.

No. 540,181.

Patented May 28, 1895.



Witnesses John mine Millson. Heris Monald.
By St. Willson attorney

United States Patent Office.

ALEXIS C. McDONALD, OF GRANITE, MONTANA.

UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 540,181, dated May 28, 1895.

Application filed April 21, 1894. Serial No. 508,465. (No model.)

To all whom it may concern:

Be it known that I, ALEXIS C. McDonald, a citizen of the United States, residing at Granite, in the county of Granite and State of Mon-5 tana, have invented certain new and useful Improvements in Umbrellas; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains 10 to make and use the same.

My invention relates to certain improvements in umbrellas, and it has for its object, principally, to shorten up the umbrella when folded for greater convenience in carrying it 15 when not in use as such, and it consists of the novel combination and arrangement of the parts all substantially as hereinafter more fully disclosed and specifically pointed out in the claim.

In the accompanying drawings, Figure 1 is a skeleton view of the umbrella—i. e., the frame without its cover—shown partly open. Fig. 2 is a similar view of said parts, shown closed. Fig. 3 is an enlarged broken detail 25 view thereof, showing more fully the principal feature of my invention. Fig. 4 is a slightlyenlarged detailed sectional view showing a rib and slide each broken away; and Figs. 5, 6, and 7 are additional detail views of a rib, a 30 slide broken away, and the removable tip with top runner and adjacent portion of stick or handle, respectively.

In the embodiment of my invention, I employ a handle or stick A of the usual con-35 struction, except it is made in sections screwed together, to provide for taking apart and shortening up the same to accommodate it to the shortened-up cover and frame more fully described farther on.

B B are the ribs which are only about half the length of the ordinary construction of rib and hinged or articulated as usual to the top notch a secured to the handle near its upper end. These ribs are of approximately in-45 verted V-shape, with the lower or bottom edges of the arms of the V inbent, forming flanges a' thereat, and at the outer end of

purpose of which is to prevent the outward displacement of the slides referred to pres- 50

ently.

C C are slides or metal pieces, adapted to form extensions of, and sliding in the grooves of, the ribs B, B, and to projections or lugs b on said slides at or near their inner ends 55 are hinged the braces D D at their upper ends, the lower ends of said ribs being hinged or articulated to the bottom notch or runner c of the usual ferrule-form or slide to snap into engagement with the common spring-stop d 60 on the handle to hold the frame extended or open.

To close the umbrella, the ribs B B are closed together, which causes the runner c to run down upon the stick thereby causing the 65 braces D to also be drawn down with the said runner, the upper ends of said braces thus withdrawing the slides C from the ribs, the whole assuming the position seen in Fig. 2.

If desired one or more of the sections of 70 the stick may be removed to accommodate it to the shortened form of the frame and cover. The tip e of the umbrella stick or handle is also screwed thereto and consequently can be removed, to still further shorten up the 75 same if so desired, for greater convenience in carrying the umbrella.

The tip e, may be connected to the top notch α , by means of a chain e' as seen plainly in Fig. 6, to prevent loss or misplacement of 80 the said tip.

The braces D with the slides C are held against inward displacement by spring-stops f carried by the slides and engaging the ribs.

Having thus fully described my invention, 85 what I claim, and desire to secure by Letters Patent, is—

In an umbrella, the combination with the stick, of the top notch a the ribs B jointed to said top notch and having an inverted V 90 shape, and having the edges of the arms thereof bent inwardly to form flanges a', a stop a^2 at the outer end of each of said ribs, the slides C arranged to slide longitudinally within the ribs and having projections or lugs 95 each rib or groove thereof is a stop a^2 the b at their inner ends, spring stops f on said

slides and adapted to bear upon the ribs, the braces D jointed at their inner or upper ends to the lugs b and the bottom notch or runner to which the lower or outer ends of the braces are jointed, said ribs, braces and slides being arranged relatively to each other to cause the slides to be nearly entirely withdrawn from the ribs by the braces when the ribs are closed together, and the stick of the umbrella being

made in sections detachably connected to- rogether, all as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

ALEXIS C. McDONALD.

Witnesses:
FRED. J. KRAMER,
FRANK WIEGENSTEIN.