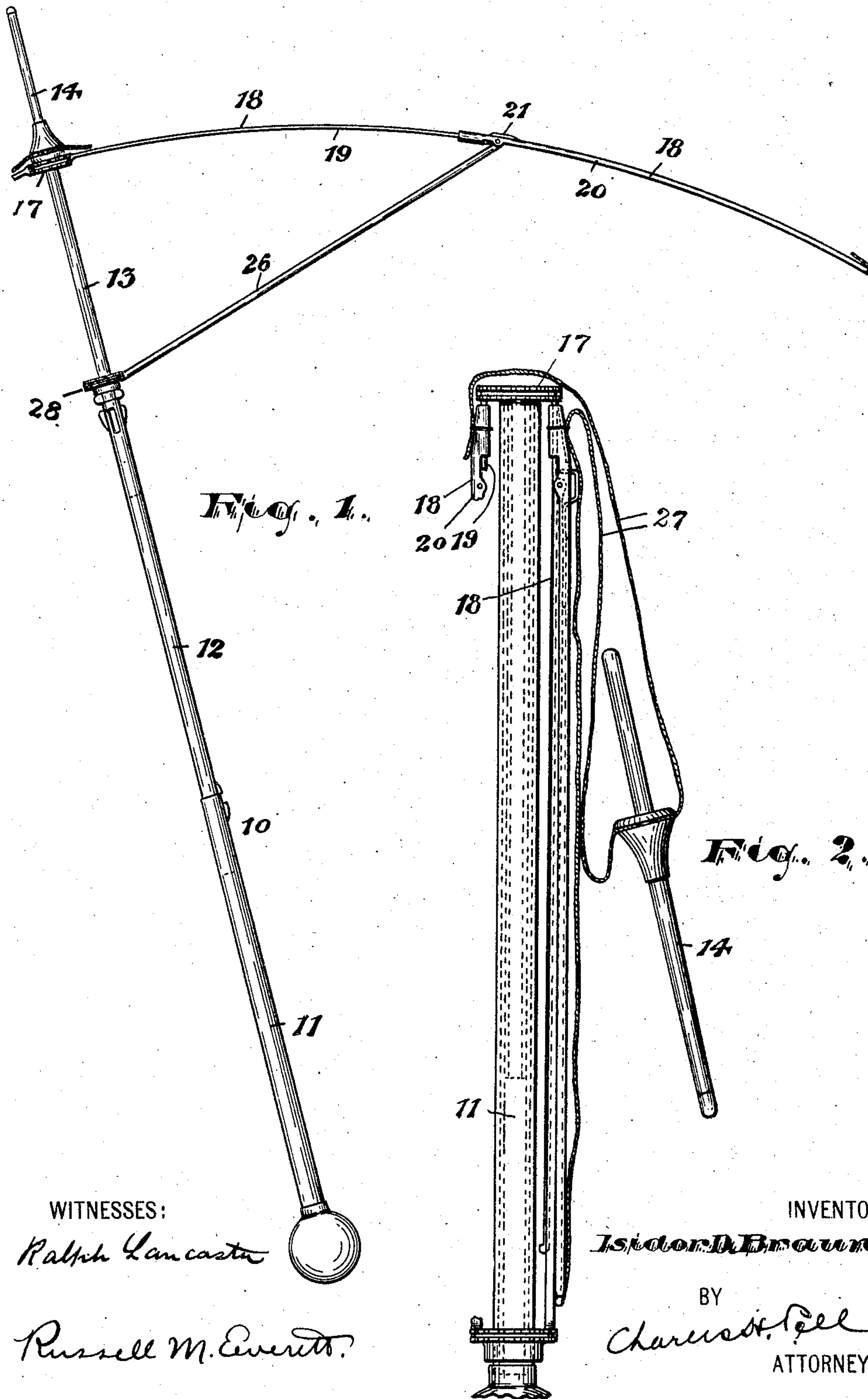


No. 785,658.

PATENTED MAR. 21, 1905.

I. D. BRAUNE.
FOLDING UMBRELLA.
APPLICATION FILED DEC. 29, 1903.

2 SHEETS—SHEET 1.



WITNESSES:
Ralph Lancaster

Russell M. Everett

INVENTOR:
Isidor D. Braune

BY
Charles H. Bell
ATTORNEY.

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2 SHEETS—SHEET 2.

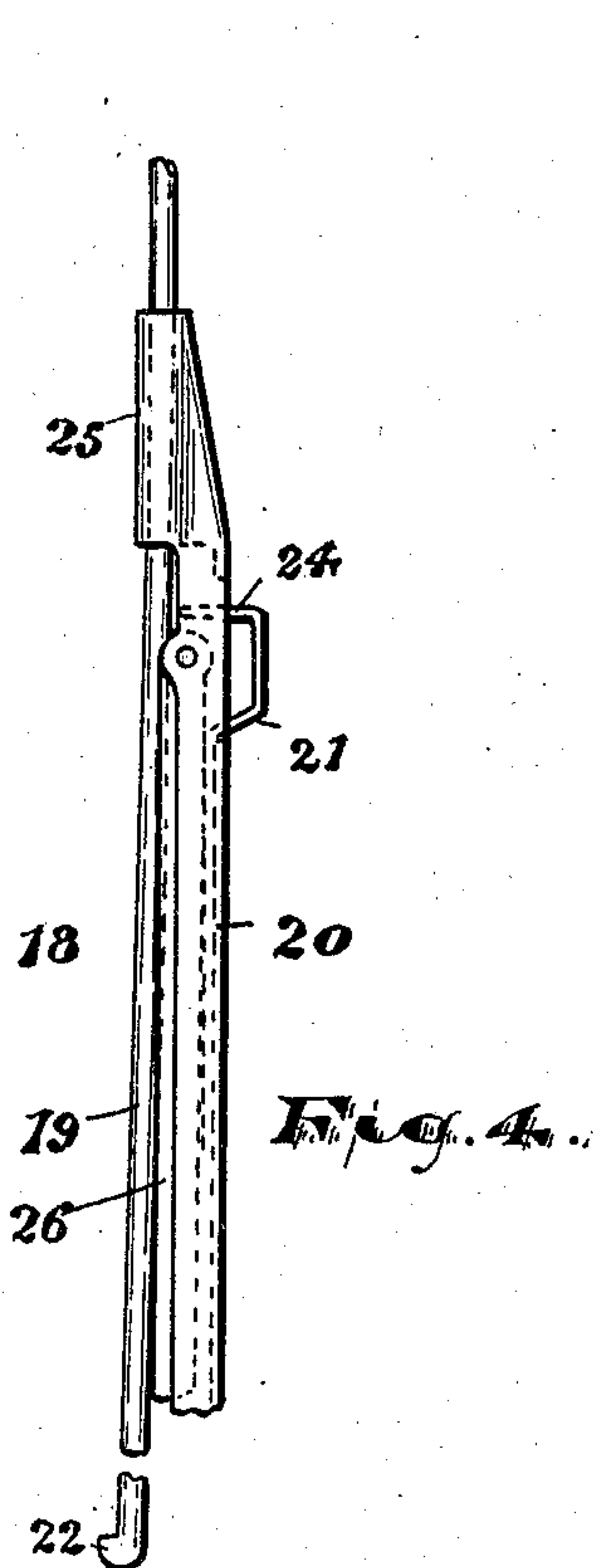


Fig. 4.

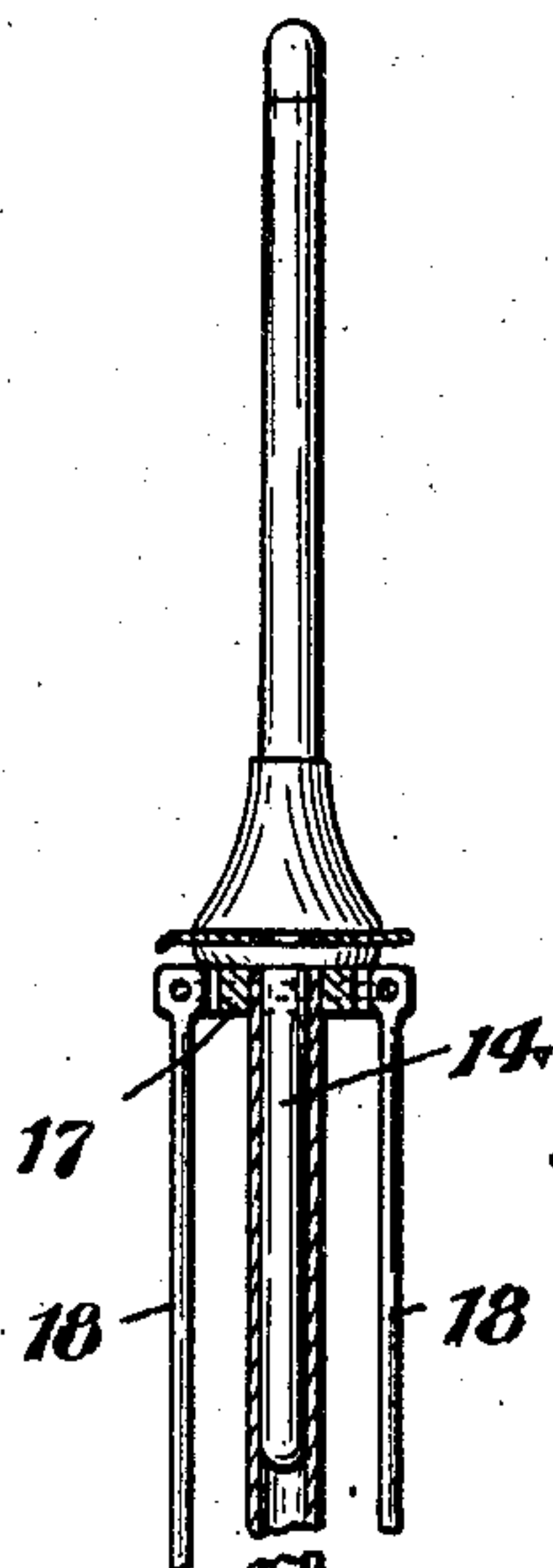


Fig. 3.

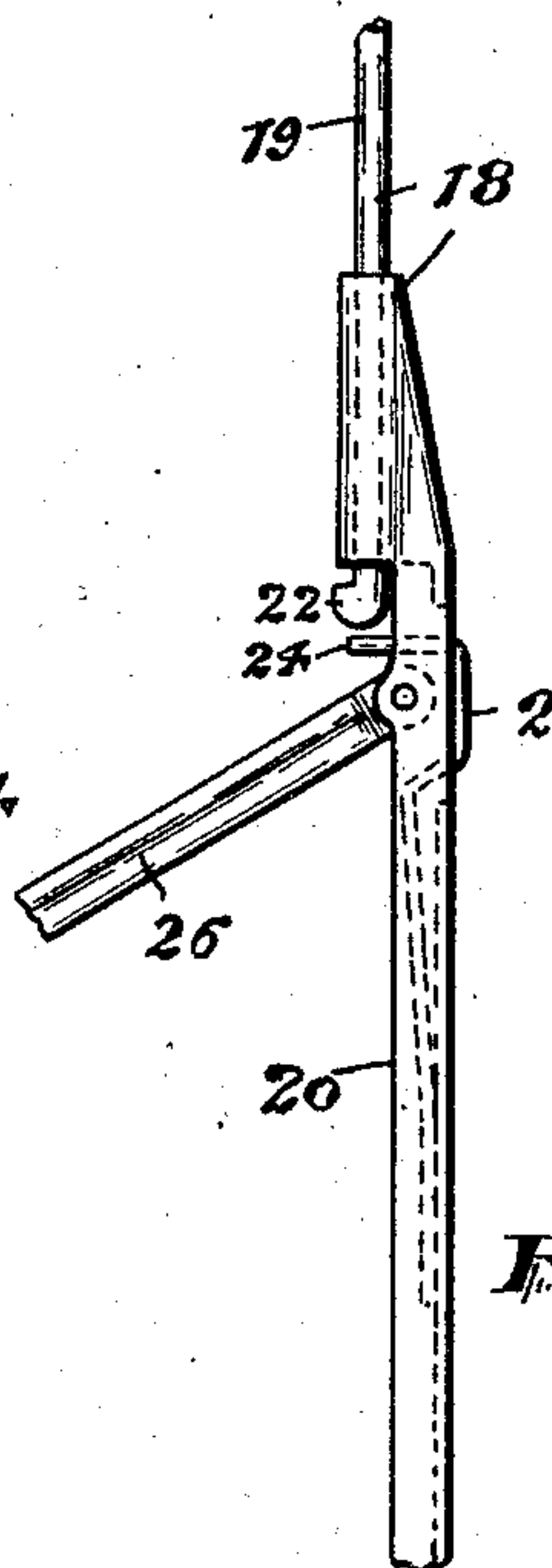


Fig. 5.

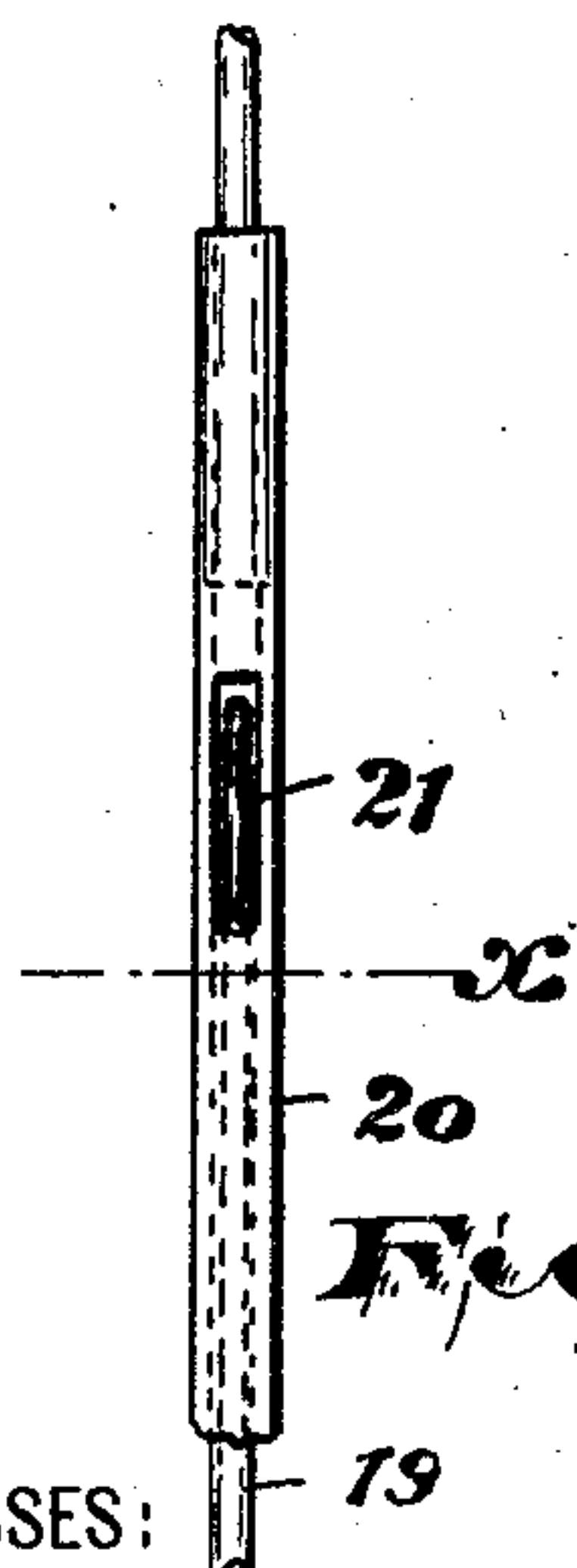


Fig. 6.

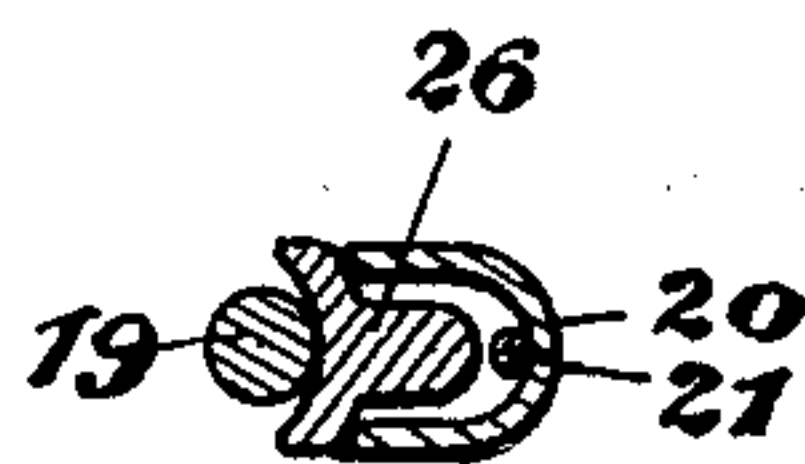


Fig. 7.

WITNESSES:

Ralph Lancaster
Russell M. Everett.

INVENTOR:

Isidor D. Braune,
BY
Charles H. Bell
ATTORNEY.

UNITED STATES PATENT OFFICE.

ISIDOR D. BRAUNE, OF NEW YORK, N. Y., ASSIGNOR OF ONE-THIRD TO HENRY M. BRAUNE, OF NEW YORK, N. Y., AND ONE-THIRD TO SAMUEL J. BRAUNE, OF NEWARK, NEW JERSEY.

FOLDING UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 785,658, dated March 21, 1905.

Application filed December 29, 1903. Serial No. 186,972.

To all whom it may concern:

Be it known that I, ISIDOR D. BRAUNE, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Folding Umbrellas or Parasols; and I do hereby 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 to make and use the same, reference being had to the accompanying drawings, and to numerals of reference marked thereon, which form a part of this specification.

The objects of this invention are to provide a folding umbrella or parasol which may be reduced to a size in which it can be readily inserted in the pocket, and thus easily and conveniently carried; to simplify the construction of folding umbrellas; to reduce the cost thereof, and to obtain other advantages and results, some of which may be hereinafter referred to in connection with the description of the working parts.

The invention consists in the improved folding umbrella or parasol and in the arrangements and combinations of parts of the same, all substantially as will be hereinafter set forth, and finally embraced in the clauses of the claim.

Referring to the accompanying drawings, in which like numerals of reference indicate corresponding parts in each of the several figures, Figure 1 illustrates a portion of a folding umbrella of my novel construction, the said view showing the sectional stick, a single sectional rib, and a stretcher therefor in open positions, it being understood that the several ribs and stretchers required for making a complete umbrella are all of the same construction. Fig. 2 is a view of the same, on a larger scale, showing the parts in their folded relation and also showing the cover of the ribs or frame. Fig. 3 is a longitudinal sectional view of the stick and certain of its attachments. Fig. 4 shows an enlarged detail of a portion of one of the ribs and its stretcher. Fig. 5 is a simi-

lar view showing them in open relation. Fig. 6 is an inside side view of the parts shown in Fig. 4, and Fig. 7 is a detail section taken at line *x* of Fig. 6.

In said drawings, 10 indicates the stick, which is of tubular sections 11 12 13 14, said sections being arranged telescopically one within the other and provided with suitable spring-catches 15 16 to hold the sections in their open or extended relations. At the upper end of the small section 13 is arranged a collar 17, commonly called a "notch," upon which is pivoted an annular series of ribs 18. The said ribs are in sections, one of which, 19, slides within a groove in the under side of the other section, 20, in folding the umbrella. The grooved sections of the ribs are those lying farther away from the notch and being of metal bent longitudinally in Ω shape are stronger to resist the pressure of the wind than the smaller sections pivoted directly to the runner. The stronger sections being disposed where the strain is greatest not only serve to receive and guide the smaller sections when the umbrella is collapsed, but conduce to increased strength and firmness of structure. At the joint between the sections is a spring-catch 21, Figs. 4 and 5, adapted to hold the parts in their extended relation, but permitting an automatic folding of the parts, the outer end of the section 19 being provided with a rounded head 22, adapted to slip over the catch projection 24 in closing the device. The head 22 also serves as a stop to prevent withdrawal through the tubular end 25 of the section 20. The sectional ribs are held in their open positions by means of stretchers 26, as indicated in Figs. 1, 4, and 5, the said stretchers being pivoted at their inner ends on the sliding collar or runner 28 and at their outer ends to the inner ends of the outer sections 20 of the rib 18, as shown particularly in said Fig. 1, the inner extremities of the outer rib-sections 20 being provided with suitable means, such as the tubular part 25, for holding the inner section of the rib to the outer section, so that there will be a free slid-

ing of the parts and yet providing a firm and secure holding of the parts in their relative operative positions, as before indicated.

I prefer to make the terminal section 14 of the stick 10 detachable from the other sections and to fasten the same firmly upon the covering-cloth 27, as indicated in Fig. 2, so that when the parts are folded the said outer section 14 may be removed from the section 13 and with the covering-cloth be folded compactly upon collapsing the frame, as shown. By permanently fastening the terminal section 14 to the covering-cloth said terminal section may be removed from the stick and with the cloth be packed snugly at the side of the collapsed stick; but said terminal section is held in connection with the stick by the cover, so that it cannot be misplaced or lost. When thus folded, the parts may be wrapped in paper or otherwise and inserted in the pocket.

Having thus described the invention, what I claim as new is—

1. In a folding umbrella, the combination with a stick comprising longitudinal sections, a notch fixed upon one of said sections, and a runner slidable upon the stick, of an upper rib-section comprising a rod hinged at one end to said notch and having at its opposite end a stop projecting laterally toward the stick, a lower rib-section having an eye projecting laterally toward the stick and receiving the upper section, said lower section being longitudinally grooved between said eye and its outer end at the side next the stick and having a slot in the bottom of said groove ad-

jacent to the eye, a leaf-spring mounted on the lower rib-section and normally lying in said slot with its extremity projecting there-through in front of the end of the upper rib-section, stretchers each pivoted at one end to the said runner and hinged at its other end between the side walls of a grooved lower rib-section at the opposite side of the said leaf-spring extremity from the upper rib-section, and adapted to fold into said groove, and a cover.

2. In a folding umbrella, the combination with a sectional stick having a notch and a runner thereon, and a cover, of an upper rib-section hinged to the notch and having at its opposite end a lateral stop, a lower rib-section lying at the opposite side of said upper section from the stick and having a lateral eye receiving said upper section and being longitudinally slotted adjacent to said eye, a leaf-spring mounted on said lower rib-section and normally lying in the said slot thereof with its extremity projecting transversely in front of the end of the upper rib-section, and stretchers each extending from the runner to a lower rib-section at a point on the opposite side of the said leaf-spring extremity from the upper rib-section.

In testimony that I claim the foregoing I have hereunto set my hand this 10th day of December, 1903.

ISIDOR D. BRAUNE.

Witnesses:

CHARLES H. PELL,
RUSSELL M. EVERETT.