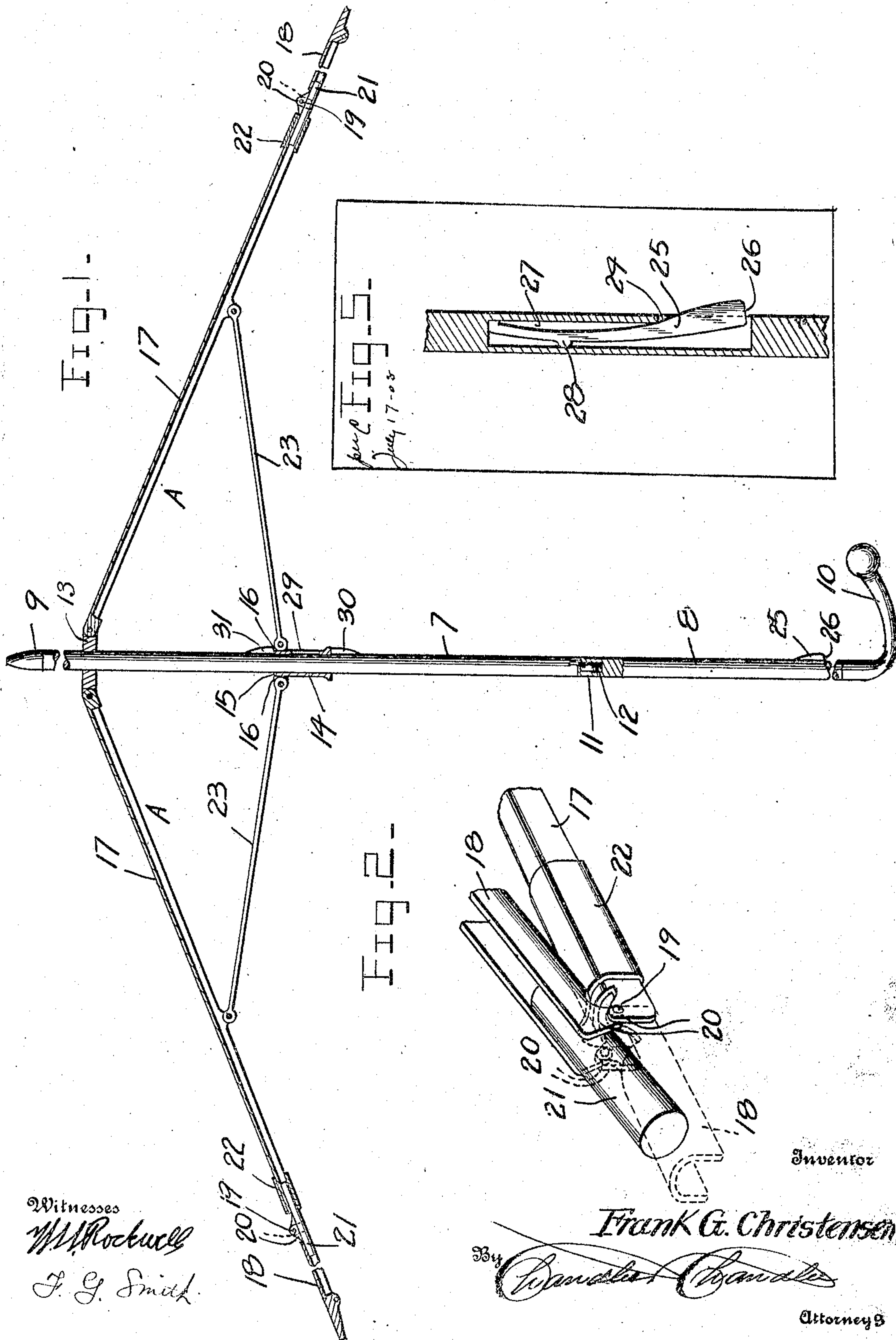


F. G. CHRISTENSEN.
FOLDING UMBRELLA.
APPLICATION FILED NOV. 26, 1907.

908,072.

Patented Dec. 29, 1908.



Witnesses
W. Rockwell
F. G. Smith

Inventor
Frank G. Christensen
By *Thomas A. Thomas*
Attorneys

UNITED STATES PATENT OFFICE.

FRANK G. CHRISTENSEN, OF PACIFIC GROVE, CALIFORNIA.

FOLDING UMBRELLA.

No. 908,072.

Specification of Letters Patent.

Patented Dec. 29, 1908.

Application filed November 26, 1907. Serial No. 403,922.

To all whom it may concern:

Be it known that I, FRANK G. CHRISTENSEN, a citizen of the United States, residing at Pacific Grove, in the county of Monterey, State of California, have invented certain new and useful Improvements in Folding Umbrellas; 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.

This invention relates to folding umbrellas and has for its primary object to provide an umbrella of this type which, while simple in its construction, will be thoroughly practical and may be readily manipulated.

The novelty in the umbrella resides principally in the specific form of ribs employed and in the manner in which they are to be folded and in which they are held against folding when the umbrella is in use or is folded in the ordinary manner.

In the accompanying drawings, Figure 1 is a sectional view through the umbrella, the same being unfolded, Fig. 2 is a detail perspective view of one of the ribs showing in full lines the sections partly folded and in dotted lines their relative positions when unfolded.

As shown in the drawings, the staff of the umbrella is comprised of a pair of sections one of which is indicated by the numeral 7 and the other by the numeral 8, the sections 7 being provided with the usual ferrule 9 and the section 8 with the usual handle 10. In order that these two sections may be disconnected when it is desired to fold the umbrella, the section 7 has one of its ends reduced and threaded as at 11 and the other section 8 has its corresponding end formed with a threaded bore 12 in which the reduced threaded end of the section 7 is received.

Fixed upon the section 7 of the umbrella staff is a head 13 which is of the usual construction and to which are pivoted the upper ends of the ribs of the umbrella which ribs are indicated in general by the reference character A. Slidable upon the staff is a runner 14 to which the inner ends of the stay

ribs of the umbrella frame are pivoted and this runner comprises the usual sleeve portion and head 15 which is provided with a number of slots 16 in which the said ends of the stay ribs are pivoted.

Each of the main ribs of the umbrella comprises a pair of sections one of which is indicated by the numeral 17 and the other by the numeral 18, the section 17 being the upper section and the section 18 the lower. Both of these sections are of the usual channel construction and the section 18 is of slightly less width than the section 17 and is pivoted thereto by means of a pivot pin 19 which is passed through ears 20 formed integral with the two sections at their connected ends. Fixed, in any suitable manner, upon the section 18 of each rib is a finger 21 and loose upon each of the sections 17 is a sleeve 22 which, when the sections are in normal position, or in other words, are unfolded, is designed to be slid over the corresponding finger and hold the said sections in such position, it being understood, of course, that when the sections are in this position, the fingers of the sections 18 lie against the sections 17. The stay ribs of the frame are indicated by the numeral 23 and are pivoted to the main ribs and the runner 14 in the usual manner.

What is claimed, is—

An umbrella rib comprising a pair of sections, each of the sections being of channel formation and being cut away to form a pair of ears which project beyond the upper surface of the corresponding section, the ears of one section being pivoted to the ears of the other, a finger fixed in the channel of one section and receivable in the channel of the other section when the rib sections are in alinement, and a sleeve upon the last mentioned section, said sleeve being movable to inclose said finger.

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

FRANK G. CHRISTENSEN.

Witnesses:

W. O. GATES,
R. E. ANDERSON.