

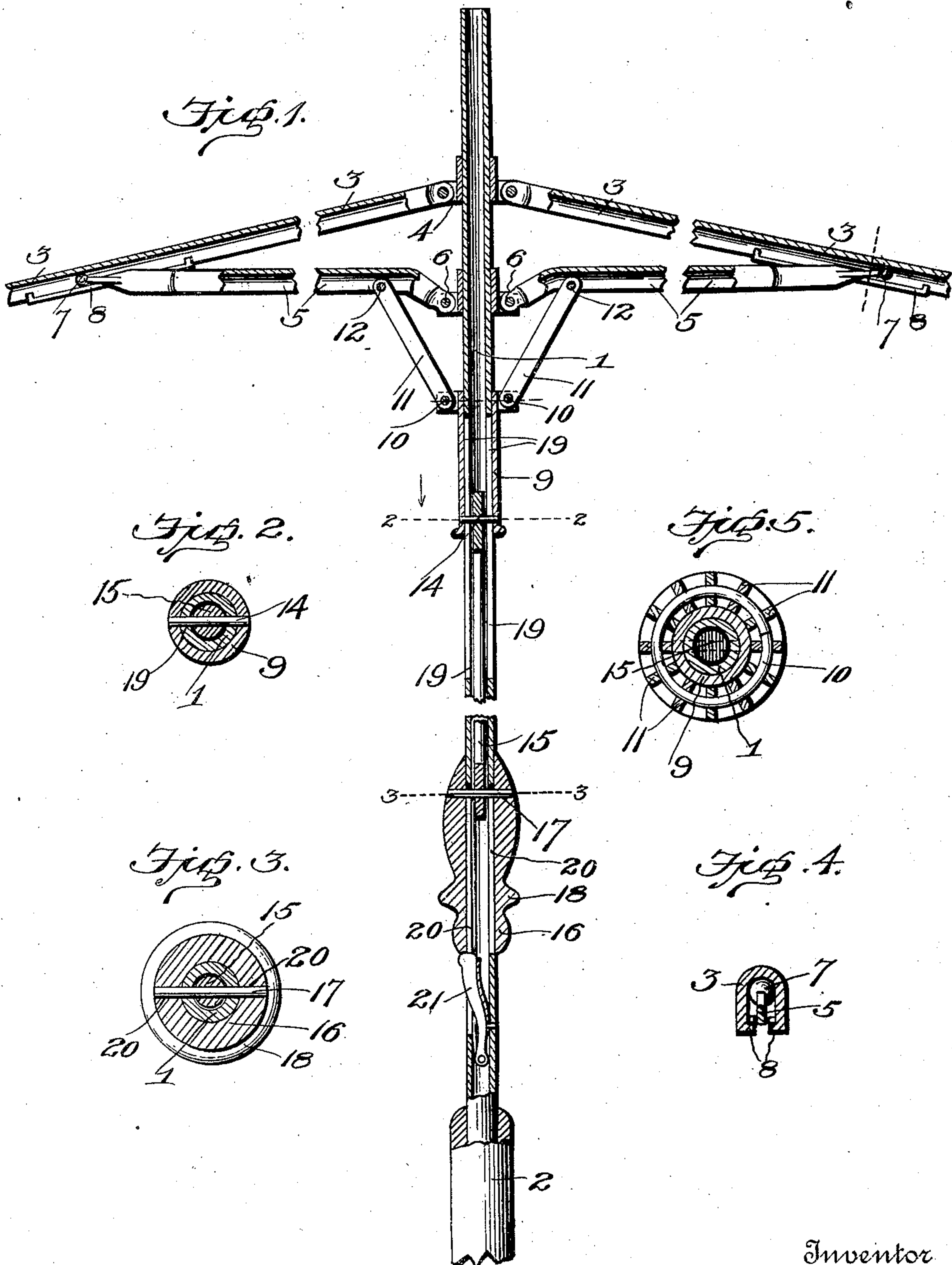
No. 833,724.

PATENTED OCT. 23, 1906.

T. B. ABBOTT.

UMBRELLA.

APPLICATION FILED AUG. 28, 1905.



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UNITED STATES PATENT OFFICE.

THOMAS B. ABBOTT, OF SALE, VICTORIA, AUSTRALIA.

UMBRELLA.

No. 833,724.

Specification of Letters Patent.

Patented Oct. 23, 1906.

Application filed August 28, 1905. Serial No. 276,172.

To all whom it may concern:

Be it known that I, THOMAS B. ABBOTT, a subject of the King of Great Britain, residing at Sale, in the State of Victoria, Australia, 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 to make and use the same.

This invention relates to umbrellas; and one of the principal objects of the same is to provide means for raising and lowering the umbrella from a position near the upper end of the handle.

Umbrellas as usually constructed require to be opened by extending the hand under the cover and up to the runner or slide.

In my improvements as contemplated the umbrella may be raised from a point within easy reach from the handle end of the stick.

Another object is to provide means whereby the umbrella may be raised without reaching under the umbrella and in which the umbrella may be closed or lowered by gravity.

Still another object is to improve and simplify the construction of umbrellas of this character.

These and other objects are attained by means of the construction illustrated in the accompanying drawings, in which—

Figure 1 is a longitudinal sectional view through the stick of an umbrella made in accordance with my invention. Fig. 2 is a transverse section on the line 2 2 of Fig. 1. Fig. 3 is a similar view on the line 3 3 of Fig. 1. Fig. 4 is a sectional view through one of the ribs and braces, and Fig. 5 is a sectional view through one of the levers which support the rib-braces and through the runner to which it is attached.

Referring to the drawings for a more particular description of my invention, the numeral 1 designates the stick, which is preferably, and as shown, of the tubular type and made of metal. The handle 2 may be secured to the stick in any suitable manner. The ribs 3 may be of the usual paragon type or of thin sheet metal bent in U shape in cross-section and may be secured in the usual way to the socket 4 near the outer end of the stick. The pivoted braces 5, connected to the ring 6 in the usual manner, are at their outer ends provided with enlargements 7, designed to slide within the hollow portion of the U-shaped ribs, and in order to hold the

enlargements 7 within the ribs and to permit them to move a required distance therein the U-shaped ribs at this point are provided with inwardly-bent flanges 8, and at the ends the flanges are bent down to form stops for the enlargements at the ends of the braces. Piv-60
otally connected to the runner 9 by means of a wire 10 are a series of brace-supports 11, said supports being connected at their upper 65
ends to the braces by means of rivets or pins 12. The runner 9 has connected to its lower end by means of a pin 14 a connecting-rod 15, extending within the stick 1, the lower 70
end of said connecting-rod being attached to a slide 16 near the handle by means of a pin 17, said slide having an enlargement 18 to render the same readily movable by means of the thumb or first finger of the hand. The stick is slotted at 19 and 20 to permit the run- 75
ner and slide to move upon the stick 1.

The operation of my invention may be described as follows: By taking the umbrella in the hand and moving the slide forward the umbrella is readily opened, and a catch 21 80
springs out to hold the slide from backward movement. When the umbrella is opened, the braces slide within the ribs and the brace-supports move upon their pivots and upon the wire which secures them to the runner. 85
When it is desired to lower the umbrella, by merely pressing upon the catch 21 the weight of the ribs and cover will close the umbrella.

From the foregoing it will be obvious that the connecting-rod need not be attached to 90
the runner, but could be arranged to merely sustain the runner by means of a cross-rod similar to the pin, and when the slide was operated the runner would be pushed upward to hold the umbrella in open position. A re- 95
verse movement would permit the cover to close.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the prin- 100
ciple or sacrificing any of the advantages of this invention.

Having thus described my invention, what I claim as new, and desire to secure by Let- 105
ters Patent, is—

1. An umbrella comprising a stick, a runner mounted to slide thereon, a slide near the handle of the stick, a connecting-rod within the stick and connecting the slide and run- 110
ner, a series of brace-supports connected to the upper end of the runner, a series of braces to which the upper ends of the brace-supports

are pivoted, enlargements for connecting the
braces to the ribs, flanges on the ribs for en-
gaging the enlargements, and means for sup-
porting the slide in elevated position, sub-
stantially as described.

5 2. In an umbrella a U-shaped rib having
inwardly-extending flanges, said flanges be-
ing bent downward at the ends to form stops
for the stretchers in combination with said
10 stretchers, the latter having enlargements at
their outer ends to move within the rib and
being secured at their inner ends to the ring

or slide on the stick, a shank to move between
the flanges, and stretcher-supports connected
to said stretchers and to the runner, substan-
tially as described.

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit-
nesses.

T. B. ABBOTT.

Witnesses:

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