

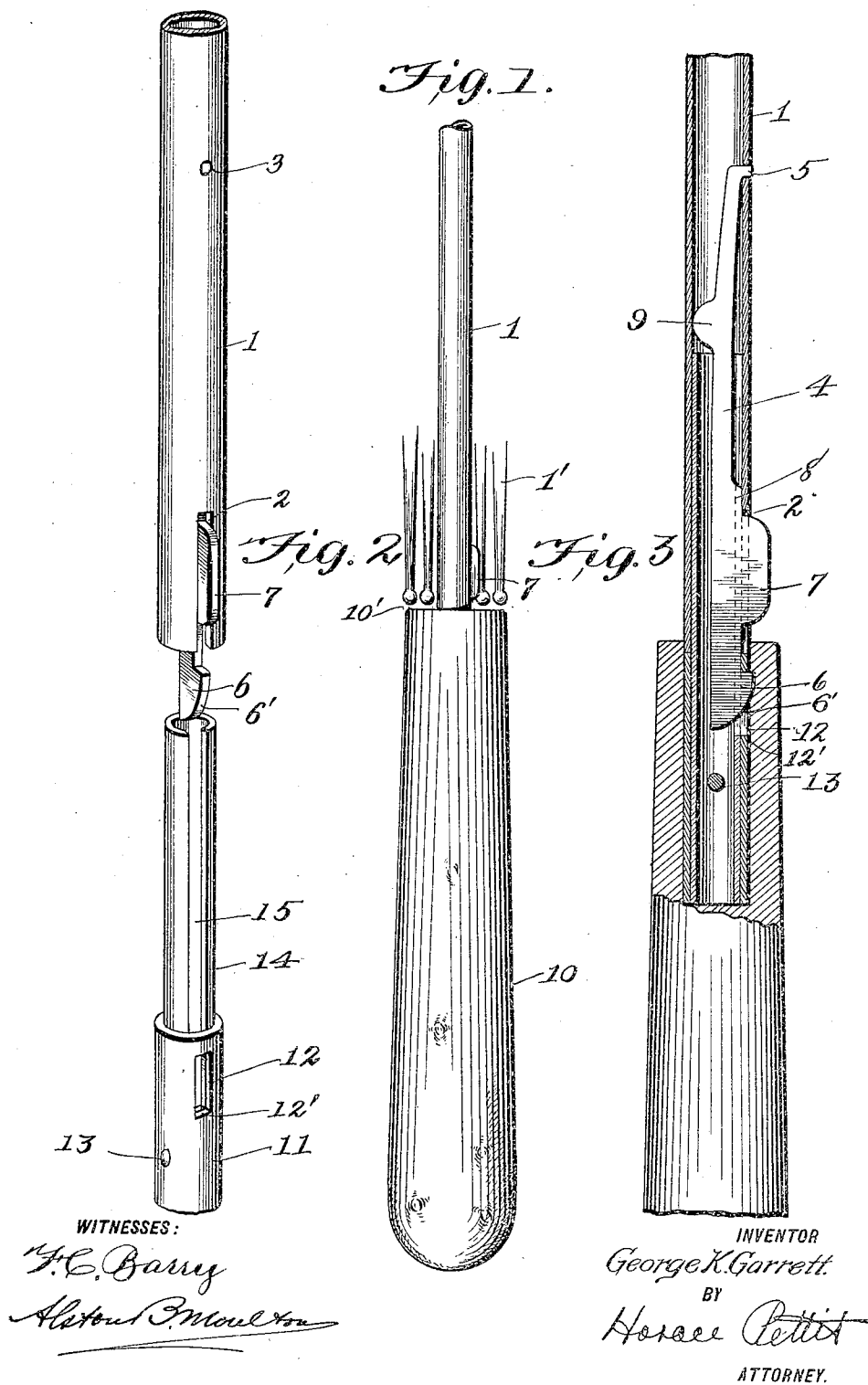
No. 814,035.

PATENTED MAR. 6, 1906.

G. K. GARRETT.

UMBRELLA.

APPLICATION FILED JULY 29, 1905.



# UNITED STATES PATENT OFFICE.

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## UMBRELLA.

No. 814,035.

Specification of Letters Patent.

Patented March 6, 1906.

Application filed July 29, 1905. Serial No. 271,726.

*To all whom it may concern:*

Be it known that I, GEORGE K. GARRETT, a citizen of the United States, and a resident of the city of Philadelphia, State of Pennsylvania, have invented certain new and useful  
5 Improvements in Umbrellas, of which the following is a full, clear, and complete disclosure, reference being made to the accompanying drawings, forming a part of this spec-  
10 ification.

The object of my invention is to provide an umbrella with a separable handle, the purpose of the same being to enable one to re-  
15 move the handle from the staff of the umbrella when it is desirable to render the same compact for the purpose of packing the same in a smaller space than would otherwise be required or for the purpose of substituting or  
20 replacing one handle for another to suit the taste or fancy of the owner.

A further object of my invention is to provide a handle for umbrellas which can be easily and readily attached to or detached  
25 from the umbrella and one which when attached is securely held on the staff of the umbrella without any longitudinal or axial play or looseness.

A further object of my invention is to so dispose the means for securing the handle to  
30 the staff that the handle may be removed from or secured to the staff whether the umbrella be open, closed, or rolled.

For a further disclosure of my invention reference may be had to the accompanying  
35 drawings, in which—

Figure 1 represents an umbrella-staff with a handle secured thereto; Fig. 2, a perspec-  
40 tive view showing the handle separated from the staff and showing the details of the construction of my fastening means, and Fig. 3 is a longitudinal section of the staff of the umbrella with the handle secured thereto.

My improved umbrella is provided with a tubular staff 1, one end of which is provided  
45 with a longitudinal-extending slot 2 and with an opening 3 in an axial alinement with said slot, but removed some distance from the same.

Within the staff I arrange a locking-spring  
50 4, one end of which is provided with a later-

ally-extending lug 5 and the other end of which is provided with the hook or latch 6. The locking-spring is further provided with a thumb-piece 7, which is adapted to engage  
55 and slide radially within the slot 2, before described. My locking-spring is further provided with a shoulder 8, located adjacent the thumb-piece, and with a projection 9, situated between the lug 5 and the shoulder 8, but upon the side opposite the said lug and  
60 the thumb-piece.

My locking-spring is made of any suitable spring material, such as brass or steel, and is of such shape that when the lug 5 is inserted through the opening 3 in the staff the lug,  
65 shoulder, and projection firmly hold the said spring within the staff by the resiliency of the spring, but permit the thumb-piece 7 to be forced down into the slot 2, thereby depressing the latch 6. The ribs of the frame are  
70 shown at 1'.

The handle of my umbrella consists of the grip 10, a tubular socket 11, permanently secured therein, and a stem 14, made fast to the inside of the socket 11 by a pin 13 or  
75 other equivalent fastening device. The socket 11, which does not quite extend to the edge 10' of the handle 10, is provided with an opening 12 a short distance from the outer end thereof. The stem 14, projecting for a suit-  
80 able distance from the socket 11, is provided with a slot 15, extending the entire length of the part of the said stem that projects from the socket 11, said slot being also continued within said socket as far at least as the rear  
85 wall 12' of said opening 12. The slot 15 is, as is plainly shown, arranged in alinement with the opening 12 in the socket 11, registering with the same within said stem, and is adapted to slide smoothly within the staff 1.  
90

The parts being in the position shown in Fig. 2, in order to attach the handle to the staff it is merely necessary to insert the slot-  
95 ted stem 14 within the end of the staff 1, with the catch 6 lying within the slot 15, and to slide the same into the staff till the ends of the staff and socket engage. As the handle is inserted the end of the socket 11 engages the rounded edge 6' of the latch and depresses the same. When the latch 6 registers with  
100

the opening 12 in the rod of the handle, it will be forced out by the action of the locking-spring 4, and the handle will be securely fastened to the staff.

5 The slot 15 operates as a guide to bring the catch 6 directly into engagement with the opening 12 and obviates entirely the necessity present in other devices of this class of first inserting the stem within the staff and  
10 then rotating the handle until the latch 6 engages an appropriate opening.

To remove the handle from the staff, it is only necessary to depress the thumb-piece 7 and withdraw the slotted sleeve from within  
15 the staff 1, since the thumb-piece situated between the ends of the ribs is never inclosed by the cover of the umbrella. By this arrangement it is plain that I have produced an exceedingly simple and effective means for re-  
20 movably attaching a handle to an umbrella-staff and one in which the handle is provided with a portion which enables the latch to be guided with accuracy and facility into engagement with the opening with which it co-  
25 operates. Moreover, by arranging the thumb-piece on the staff of the umbrella adjacent the end thereof and arranging the parts with which the latch coöperates wholly within the handle I have produced a structure which  
30 permits the handle to be removed even though the umbrella be closed or tightly rolled, since the thumb-piece lies between the ends of the ribs beyond the point at which the cover is attached to the ribs and in such a  
35 position projects sufficiently between the ribs to make it always accessible.

It is obvious that instead of employing the slotted tubular stem a rod having a slot therein may be substituted therefor, and other  
40 means for securing the latch within the staff might be substituted for the form shown by me without departing from the spirit of my invention.

What I claim as new, and desire to protect  
45 by Letters Patent of the United States, is—

1. In an umbrella, the combination of a staff provided at one end with a latch, with a handle provided with a socket, a slotted stem secured to said socket extending beyond said  
50 handle, the slot in said stem operating to accurately guide the latch into the socket.

2. In an umbrella, the combination of a staff provided with a latch; of a handle; a socket provided with an opening; and an extension secured to the inside of said socket,  
55 said extension being provided with means for guiding the latch into the opening in said socket.

3. In an umbrella, the combination of a  
60 staff provided with a latch; of a handle; a socket provided with an opening, arranged

entirely within said handle, and an extension secured to the inside of said socket, said extension being provided with means for guiding the latch into the opening in said socket. 65

4. In an umbrella, the combination of a staff provided with a slot at one end, and a locking-spring, provided with a latch and thumb-piece, the thumb-piece being located within the said slot; of a handle; a socket provided  
70 with an opening near the end thereof; a slotted stem extending beyond said socket, the slot in the said stem registering with the opening in the socket and serving to guide the latch into said opening. 75

5. In an umbrella, the combination of a staff provided with a slot at one end, and a locking-spring, provided with a latch and thumb-piece, the thumb-piece being located within the said slot; of a handle; a socket ar-  
80 ranged wholly within said handle and provided with an opening near the end thereof; a slotted stem extending beyond said socket, the slot in the said stem registering with the opening in the socket and serving to guide the latch  
85 into said opening.

6. In an umbrella, the combination with a staff, provided with a slotted end; and a latch, secured within said staff, provided with a thumb-piece, said thumb-piece extend-  
90 ing through said slot; of a handle; a socket provided with an opening near its end; and a slotted stem secured within, but extending beyond said socket, the slot of said stem being in alinement with said opening in said socket. 95

7. In an umbrella, the combination with a staff, provided with a slotted end, and a latch, secured within said staff, provided with a thumb-piece, said thumb-piece extending through said slot; of a handle; a  
100 socket provided with an opening near its end, secured wholly within said handle; and a slotted stem secured within, but extending beyond said socket, the slot of said stem being in alinement with said opening in said  
105 socket.

8. In an umbrella, the combination with a staff provided with a slotted end; and a latch, secured within said staff, and provided with a thumb-piece, the thumb-piece extend-  
110 ing through said slot; of a handle; a socket provided with an opening near its end; and a slotted stem secured within said socket and extending beyond the same, the slot of said stem being in alinement with said opening,  
115 and within the handle registering with said opening in said socket.

9. In an umbrella the combination of the ribs, the staff, a locking-spring, and a thumb-piece adapted to operate said locking-spring,  
120 said thumb-piece being situated at the end of the staff and adapted to lie between the outer

ends of said ribs, with a separable handle adapted to be secured to said staff by said locking-spring.

5 10. In an umbrella, the combination with the staff 1, provided with a slot 2; and a locking-spring 4, provided with a thumb-piece 7 and latch 6; of a handle 10; a socket 11, provided with an opening 12; and a slotted stem 14, the slot in the said

stem registering with said opening in the 10 socket and serving to guide said latch into engagement with said opening.

In witness whereof I have hereunto set my hand this 27th day of July, 1905.

GEORGE K. GARRETT.

Witnesses:

ALEXANDER PARK,  
FRED. G. REES.