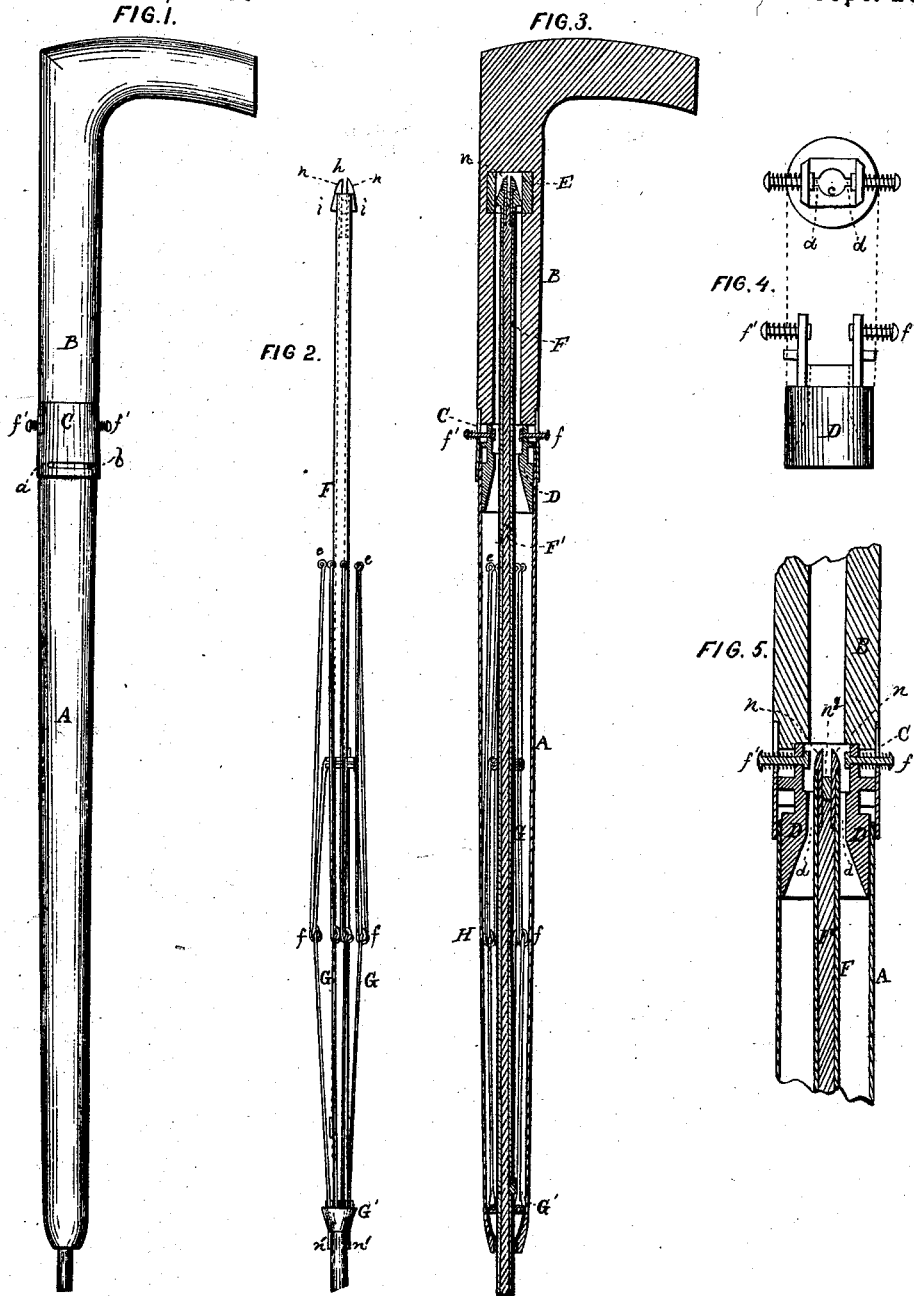


T. HARRIS & A. KINDERMANN
Cane and Umbrella Combined.

No. 168,092.

Patented Sept. 28, 1875.



WITNESSES.

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INVENTORS

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August Kindermann.
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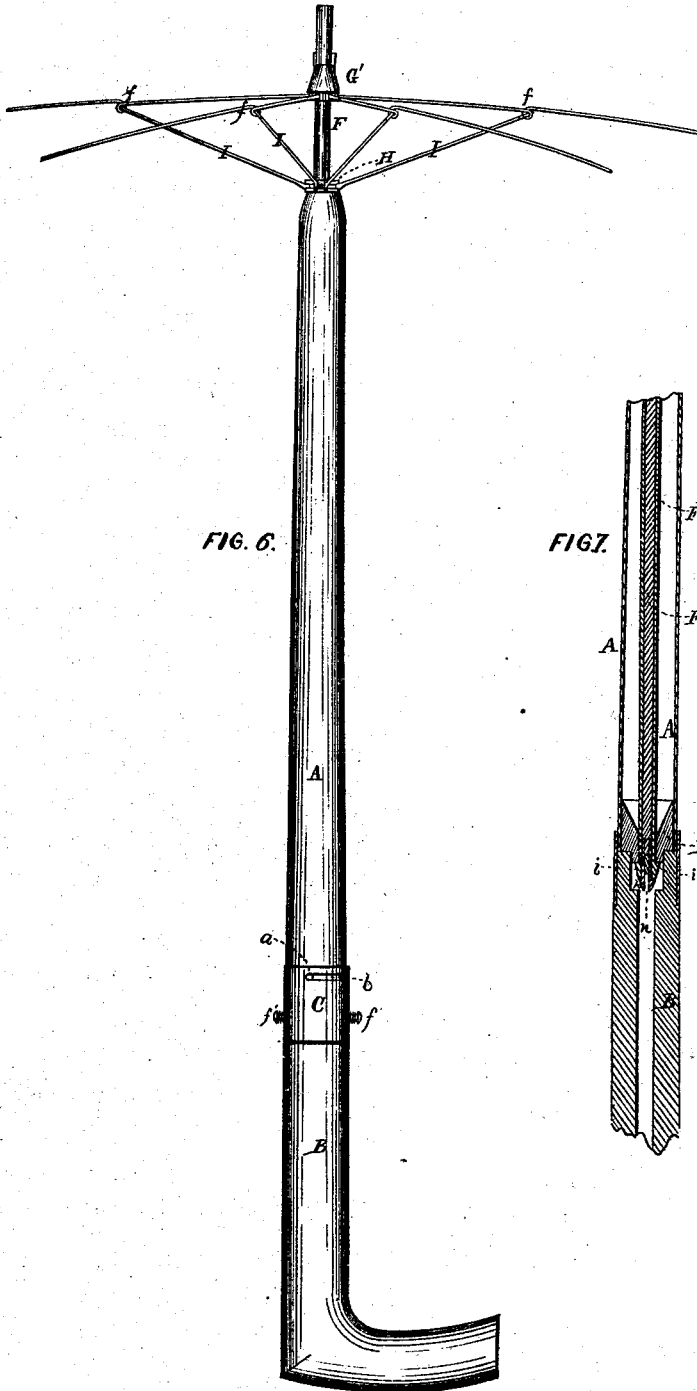


FIG. 6.

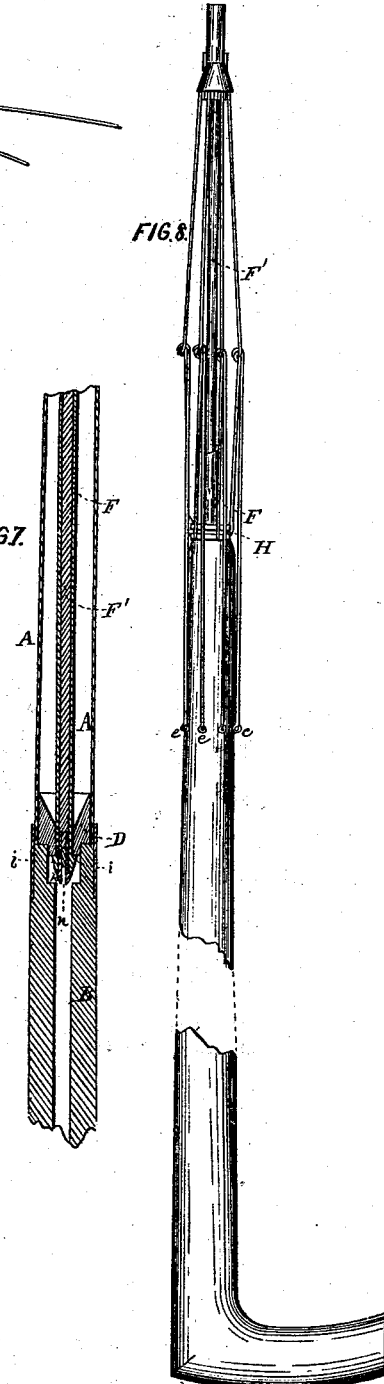
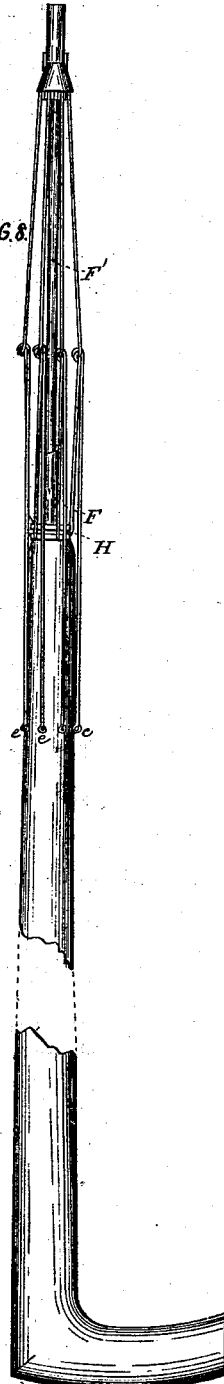


FIG. 7.

FIG. 8.



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UNITED STATES PATENT OFFICE.

THEODORE HARRIS AND AUGUST KINDERMANN, OF CLEVELAND, OHIO.

IMPROVEMENT IN CANES AND UMBRELLAS COMBINED.

Specification forming part of Letters Patent No. 168,092, dated September 28, 1875; application filed August 4, 1875.

To all whom it may concern:

Be it known that we, THEODORE HARRIS and AUGUST KINDERMANN, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and Improved Cane and Umbrella Combined; and we do hereby declare that the following is a full, clear, and complete description thereof, reference being had to the accompanying drawings making a part of the same.

Figure 1 is a view of the cane and umbrella when used as a cane. Fig. 2 is a view of the umbrella detached. Fig. 3 is a longitudinal section of Fig. 1. Figs. 4, 5, and 7 are detached sections. Fig. 6 is a view of the cane and umbrella used as an umbrella when spread. Fig. 8 is a view of the same when shut.

Like letters of reference refer to like parts in the several views.

This invention is a combination of an umbrella and walking-cane, whereby is combined in one article the usefulness and convenience of the two, the construction of which is substantially as follows:

The walking-cane referred to consists of two sections, A and B, which are connected to each other by a ferrule, C, fixed to section B of the cane, into which the end of section A is inserted, and secured by a pin, *a*, projecting from the side of section A, and slipped into a transverse slot, *b*, made in the ferrule, as will be seen in Figs. 1 and 6. Section A is a metal tube, whereas section B is of wood, having a hole bored into it, as shown in Fig. 3. To the end of section B is secured a head, D, Fig. 3, a detached view of which is shown in Fig. 4. Said head is inclosed by the ferrule C, between which and the head the end of section A is received when the two sections are connected to each other, as will be seen in Fig. 3. Through the center of the head is made a hole, *c*, Fig. 4, in two opposite sides of which is cut a slot, *d*. The hole at the outer end of the head is milled out, so as to form a bell-shaped mouth or opening to the hole *c*, as shown in said Fig. 3. At the end of the hole bored in section B of the cane is a metal block, E, having a slotted hole therein, as in the head D, the purpose of which will hereinafter be shown.

Having described the cane, (the first part of the invention,) the second part (the umbrella)

consists of a tubular handle, F, in which is fitted loosely a rod, F'. To one end of said rod are secured the ribs G, in the same way as are the ribs of an ordinary umbrella—that is, by an eye in the end of the ribs, through which passes a wire, whereby the ends are secured to a notched head, G', fixed to the rod, in which notches the ends of the ribs are inserted, as will be seen in the drawings. Said rod is just long enough to reach to the end of the tubular handle, where it terminates in two spring-catches, *n n*, Fig. 5, one on each side of the rod. Said catches are forced apart by a piece of rubber, *n'*, inserted between them, so that on pushing the rod to the end of the handle the catches will project through the end thereof, and spring out laterally beyond the sides of the hole, as will be seen in Figs. 5 and 7, thereby preventing the rod from being pulled from out the handle, unless the catches are pressed together by the pintles *f' f'*. The rod is prevented from passing too far in the handle by the head G', to which the ribs are attached, as aforesaid. H is a sliding collar, to which the braces I of the ribs are secured in the same way as are the ends of the ribs attached to the head G' referred to. Said collar slides on the tubular handle. The ribs of the umbrella consist of wire, in one end of which is turned an eye, *e*, to which to secure the covering, (not shown,) it being like that of an ordinary umbrella, and put on in the same way; also, in each rib is turned an eye, *f*, to which to fasten the ends of the braces, which have a hook turned thereon, whereby to hook them into the eyes of the ribs, as shown in Figs. 2 and 6.

The practical operation of the above-described invention is as follows: Fig. 2 represents the umbrella as shut up, as would be an ordinary one. In this condition it is inserted in the tubular section A of the cane, as will be seen in Fig. 3. Section B is then attached to section A in the manner as above said, thereby inclosing the article entirely within the cane, as shown in said Fig. 3, an outside view of which is shown in Fig. 1, which represents a walking-cane having the umbrella within. In order to convert the cane into an umbrella, or a part thereof, the two sections A and B are disjointed, and the umbrella withdrawn and spread open. The tubular handle F is then

inserted in the smaller end of the cane, and pushed therein until the end *h* of the handle enters the opening or mouth of the head *D*, and through the hole *c*, in which it closely fits. The handle is then turned partially around, so as to bring the ears *i i*, Fig. 2, on the sides of the handle, across the edge of the hole, which will prevent it from being pulled out, as shown in Fig. 7. The slots *d*, Fig. 4, in the sides of the hole allow the ears to pass through, for the purpose specified. The umbrella thus secured in section *A* of the cane is shown in Fig. 6. Section *B* is then attached to section *A*, as above described, thereby completing a handle for carrying the umbrella, as will be seen in said Fig. 6. The end of the cane holds the collar *H* up, thereby keeping the umbrella spread, as shown in the drawing, and when not needed it can be detached from the cane and inserted therein, in the manner above described; or, should it be desirable simply to close the umbrella, as will be seen in Fig. 8, while it is being retained in the cane, as shown in Fig. 6, it can be done by pressing with the thumb and forefinger upon the pintles *f' f'*, thereby forcing together the catches *n n*, so that the rod can be pulled out from the handle, thus extending the rod above the handle, which will allow the closing of the umbrella about the extended rod and section *A* of the cane, as shown in Fig. 8.

It will be observed that on the sides of the rod *F'*, near the end to which the ribs are attached, there are two ears, *n' n'*, Fig. 2, the purpose of which is to prevent the umbrella from turning around within the cane. The ears, as will be seen are lodged in corresponding notches made in the sides of the hole in the end of the cane. The ears also hold the rod *F'* in the right position for the ears *i i* at the other end to enter the slots *d* in the sides

of the hole *c* of the head *D*, and in which position the pin *a* will be in line for entering the slot *b'*, thus forming guides for coupling together the several parts of the cane and umbrella, to facilitate the act of replacing the same in the cane.

In order to make the connection of the sections *A B* and the umbrella when inclosed therein the more secure, the ears *i i* at one end of the handle are so arranged, in respect to the ears *n' n'* at the other end, that while the ears *n' n'* are in the slots in the sides of the hole in the end of the cane the ears *i i* will be across the lower edge of the hole in the block *E* in section *B* of the cane, as will be seen in Fig. 5, thereby strengthening the connection of the two sections, as above said.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. The handle *B* of the cane, herein described, provided with a slotted ferrule; *C*, head *D*, having a slot, *c d d*, therein, with a bell-mouth opening, in combination with section *A* thereof and pin *a*, substantially as set forth, and for the purpose specified.

2. In combination with the cane constructed as herein described, the umbrella consisting of the tubular handle *F*, rod *F'*, ears *i i* and *n' n'*, ribs *G*, braces *J*, head *G'*, and collar *H*, in the manner substantially as described, and for the purpose set forth.

3. The pintles *f' f'*, in combination with the rod *F'* and catches *n n*, in the manner substantially as described, and for the purpose specified.

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Witnesses:

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