(No Model.)

F. H. HOWE.

UMBRELLA STICK.

No. 498,850. Patented June 6, 1893.

Fig. 1.

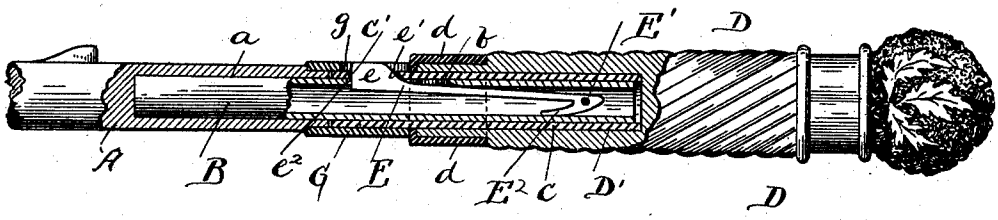


Fig. 2.

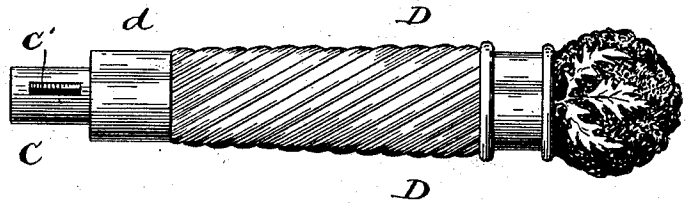
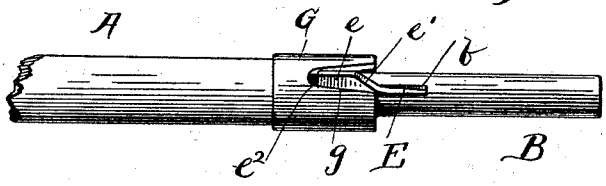


Fig. 3.



Witnesses.
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Fred H. Howe
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UNITED STATES PATENT OFFICE.

FRED H. HOWE, OF NORWALK, OHIO.

UMBRELLA-STICK.

SPECIFICATION forming part of Letters Patent No. 498,850, dated June 6, 1893.

Application filed December 15, 1892. Serial No. 455,243. (No model.)

To all whom it may concern:

Be it known that I, FRED H. HOWE, of Norwalk, in the county of Huron and State of Ohio, have invented certain new and useful Improvements in Umbrellas and 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 pertains to make and use the same.

My invention relates to improvements in umbrellas and parasols, and it consists more especially in the means employed for detachably securing the handle to the shank, the object being to provide means for the purpose that is not only more efficient but cheaper in construction than the means heretofore employed, and to provide means that is especially well adapted for thus detachably securing a handle to a wooden shank.

A preferable construction embodying my invention is shown in the accompanying drawings, wherein—

Figure 1 is an elevation, partly in central longitudinal section, of a portion of the shank of the umbrella or parasol and attached handle, showing my improved means for detachably securing the handle to the shank. Fig. 2 is an elevation of the handle detached. Fig. 3 is a side elevation of that end of the shank to which the handle is attached.

Referring to the drawings, A represents a wooden shank of an umbrella or parasol, and B represents a tube secured in any suitable manner to that end of the shank to which the handle is attached, a preferable construction being shown in Fig. 1 wherein the wooden shank A is centrally bored, as at *a*, and tube B is nicely fitted within said bore. Tube B extends a suitable distance beyond the end of the wooden shank and is adapted to nicely fit within tube C that is nicely and securely fitted in a central longitudinal bore D′ of the handle D. A ferrule, *d*, preferably embraces the inner end of the handle to prevent splitting the latter during the insertion of tube C. Tube C extends outside of the inner end of the handle where it is provided with a lateral slot C′ that is adapted to be engaged by the head *e* of a spring-catch E, that extends into and lengthwise of tube B, wherein it is secured, at or near the outer end of said tube, as at E′, said spring-catch at its point of attachment, being reversely bent so as to form an arm, E^2, that engages the inner side of tube B at a suitable point to hold the spring-catch in its normal position. Tube B is of course slotted, as at *b*, to accommodate the location and operation of the spring-catch. The head of the spring-catch is beveled or inclined, as at *e′*, at the end from which the handle is applied; thereby facilitating the passage of the inner end of tube C over the head of the spring-catch in attaching the handle.

In attaching the handle, the end containing tube C is slipped over tube B of the shank and previous to the engagement of bevel or incline *e′* of the head of the spring-catch, the handle, if not already in proper position relative to the shank, is turned so as to bring slot C′ of tube C of the handle in the same longitudinal plane with the head of spring-catch E. The handle is then forced inward to cause the inner end of tube C to ride up the bevel or incline *e′* of the head of the spring-catch, resulting in the depression of the head of the spring-catch flush with the external periphery of tube B of the shank until slot C′ has passed the distance required over the head of the spring-catch, and slot C′ being of ample size to receive the head of the spring-catch, it follows that when the handle with tube C is brought into the position indicated relative to said catch, the head of the spring-catch, by the action of the spring, will be returned to its normal position, as shown in Fig. 1, thereby securely locking the handle to the shank. The head of the spring-catch, at the end that is adapted to engage the inner end of slot C′ of tube C of the handle is preferably perpendicular to the shank, as at e^2, or sufficiently so that when the handle is attached to the shank, there is no liability of its becoming automatically disengaged by slipping or working back over the head of the spring-catch, and hence, if it is desired to detach the handle, the same can only be done or accomplished by pressing inwardly upon the head of the spring-catch so as to bring the head flush with the internal periphery of tube C, or approximately so, as to permit the slipping of said tube back over the head of the spring-catch. A ferrule G preferably embraces the inner or lower end of the shank, not only to prevent the splitting of the shank

during the insertion of tube B, but also to prevent the head of spring-catch E from objectionably protruding or projecting beyond the external periphery of the shank, said ferrule being slotted longitudinally, as at *g*, to accommodate the location and operation of the spring-catch and being preferably of such length that when the parts are assembled and properly fastened together by means of said catch, the inner or outer end of ferrule G will engage the adjacent end of ferrule *d* on the handle, and hence when the parts are assembled, as indicated, a neat appearance is presented.

While my invention is more especially designed for an umbrella or parasol shank, the main portion whereof is made of wood, I would have it understood that the invention is not limited to this application, but is equally well adapted for metallic shanks wherein the shank is composed of a tube in which case tube or part B, would likely be integral with the main portion of the shank.

What I claim is —

1. The combination with a wooden shank for an umbrella or parasol, the same being bored at its inner or lower end, as at *a*, a tube fitted and secured within and extending outside of said bore, said tube being slotted laterally, as at *b*, a handle bored at its inner end, as at D′, a tube fitted and secured within said bore and projecting beyond the inner end of the handle, said handle tube being slotted laterally, as at C′, and being adapted to slip over the aforesaid tube of the shank, of a spring-catch secured within the tube of the shank and terminating at its free end in a head adapted to engage the slots in the tubes aforesaid and securely lock the handle in position on the shank, substantially as set forth.

2. The combination with a wooden shank for an umbrella or parasol, the same being bored at its inner or lower end, as at *a*, a tube fitted and secured within and extending outside of said bore, said tube being slotted laterally, as at *b*, and a handle bored at its inner end, as at D′, a tube fitted and secured within said bore and projecting beyond the inner end of the handle, said handle-tube being slotted laterally, as at C′, and being adapted to slip over the tube of the shank aforesaid, of a spring-catch secured within the tube of the shank and terminating at its free end in a head adapted to engage the slots in the tubes aforesaid and project outside of the slot in the shank-tube, and securely lock the handle in position on the shank, and a ferrule mounted on the inner or lower end of the wooden shank, said ferrule being slotted, to accommodate the location and operation of the spring-catch and being of such diameter that the head of the catch, in its normal or locking position, will come flush or approximately flush with the outer periphery of the ferrule, substantially as set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 11th day of November, 1892.

FRED H. HOWE.

Witnesses:
F. W. CHRISTIAN,
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