

No. 610,358.

Patented Sept. 6, 1898.

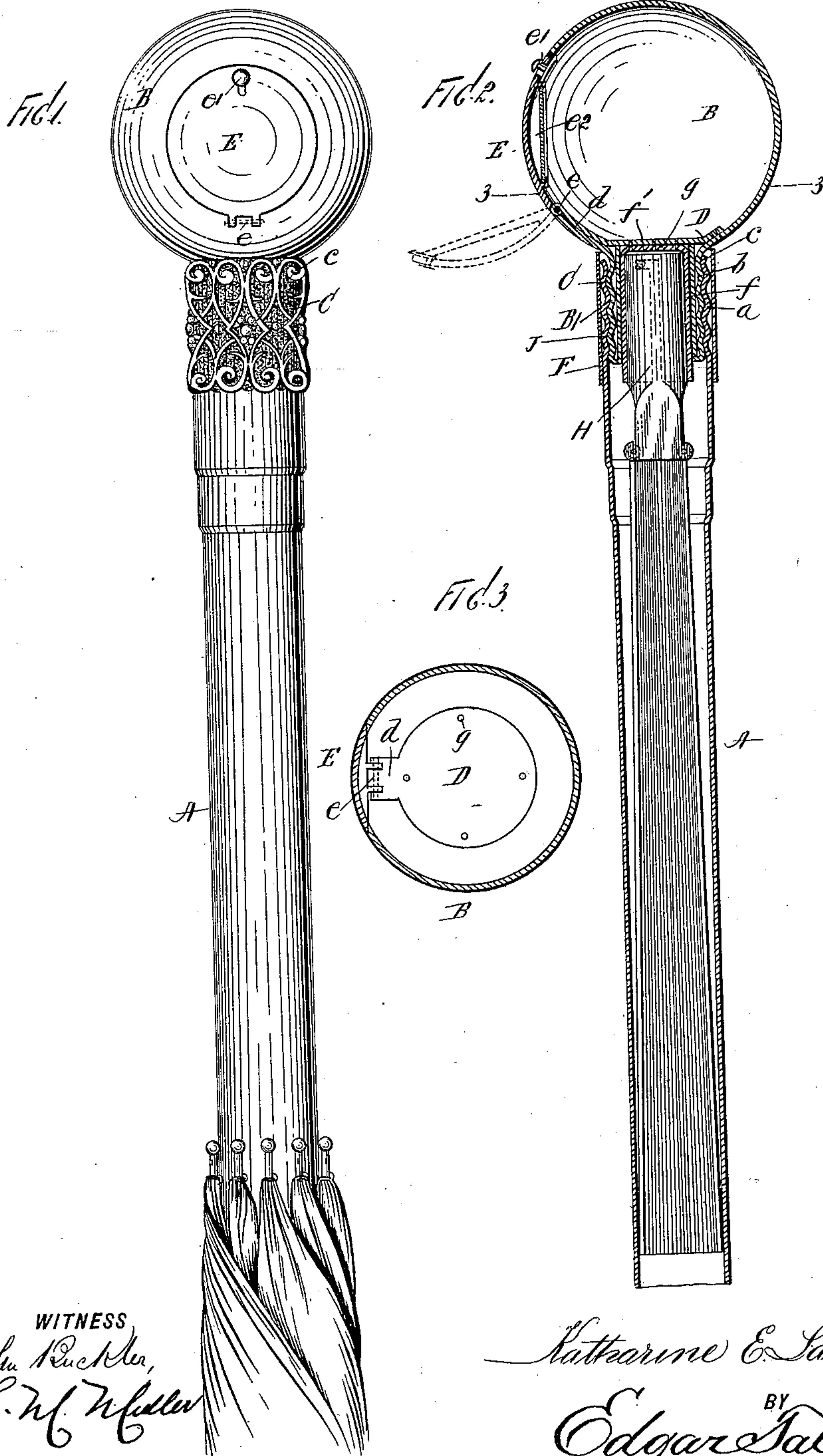
K. E. LANDAU.

FAN ATTACHMENT FOR UMBRELLAS.

(Application filed Dec. 17, 1897.)

(No Model.)

2 Sheets—Sheet 1.



WITNESS
John Buckler,
L. M. Fuller

INVENTOR
Katherine E. Landau,
BY
Edgar Tate & Co
ATTORNEYS

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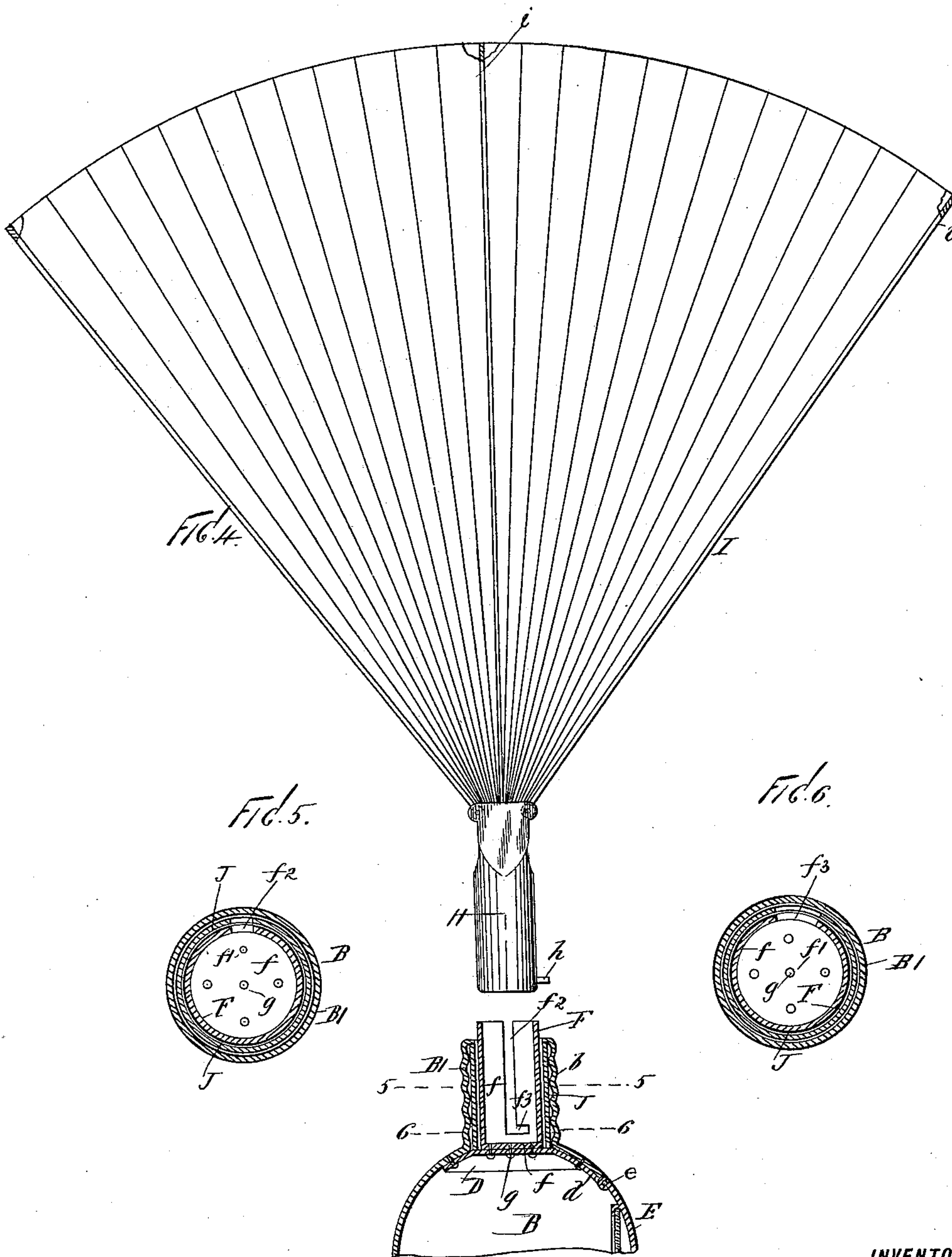
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BY
Edgar S. S. S.
ATTORNEYS

UNITED STATES PATENT OFFICE.

KATHARINE ELIZA LANDAU, OF NEW YORK, N. Y.

FAN ATTACHMENT FOR UMBRELLAS.

SPECIFICATION forming part of Letters Patent No. 610,358, dated September 6, 1898.

Application filed December 17, 1897. Serial No. 662,288. (No model.)

To all whom it may concern:

Be it known that I, KATHARINE ELIZA LANDAU, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Fan Attachments for Umbrellas, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to that class of handles for umbrellas, canes, or the like which embody a tubular socket adapted to contain a fan or similar device carried upon a knob or head detachably connected with and closing the end of said socket.

The object of my invention is to provide a simple and improved device of this character in which a fan will be conveniently combined with an umbrella-handle in a compact and safe manner and in which the double-functional character of the handle portion of the umbrella will be successfully concealed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by the same letters of reference in each of the views, and in which—

Figure 1 is a side elevation showing the top portion of an umbrella-handle embodying my improvements. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a transverse sectional view taken on the line 3 3, Fig. 2. Fig. 4 is a sectional view showing the fan in side elevation and disconnected from its holding-socket in its knob or head. Fig. 5 is a transverse sectional view taken on the line 5 5, Fig. 4; and Fig. 6 is a transverse sectional view taken on the line 6 6, Fig. 4.

In the drawings forming part of this specification, A designates the handle portion of an umbrella, which in my invention is of tubular construction, preferably cylindrical and open at its end. This tubular portion may be formed of plate metal and is provided at its open top end with corrugations forming interiorly-operating screw-threads, as at *a*.

B designates a knob or head which is preferably of globular form and is hollow, so that it forms a receptacle for small articles. This globular head may be likewise formed of plate

metal and is provided at its bottom with a projecting tubular shank or stem B', provided with corrugated walls forming exteriorly-operating screw-threads, as at *b*, adapted to be received within and engaged by the threaded end *a* of the tubular handle or shank A. The shank of the globular knob or head B corresponds to the interior top end of the tubular handle A and forms a detachable connection between these parts.

Exteriorly upon the corrugated or threaded top end *a* of the tubular handle is provided a circumferential plate or flange C, which may be of ornamental character, as shown in Fig. 1, and operates to conceal the corrugated or threaded structure of the handle portion. The top edge of this circumferential ornamental plate forms a projecting flange, as at *c*, extending beyond the corrugated or threaded top end *a* of the tubular handle A and adapted to project against the base portion of the globular knob or head B when the latter is screwed home into normal position. By reason of the construction and arrangement just described the threaded connection between the globular head and tubular handle portion is effectively concealed, so that the detachable relation and double-functional characteristics of the parts are effectively concealed from the casual observer.

The inner end opening of the tubular shank B' of the knob B is closed by a plate, as D, which is preferably extended at one side, as at *d*, to form the hinge connection *e* for a door or lid E, adapted to close a side opening in the globular knob B and having a suitable spring-catch *e'*, by which it is locked in closed position. The extension of the plate D to form the hinge-joint of the door E forms a firm and well-braced construction. This door enables a convenient use of the globular knob or head as a receptacle for small articles. The said door is preferably formed by an interiorly-opening locket, as shown at *e*², Fig. 2.

F designates a spring-thimble which is mounted within the corrugated or threaded projecting shank B' of the knob B and comprises side walls *f* and a bottom plate *f'*, secured by rivets, as at *g*, or in any other suitable manner to the outer face of the plate D. This thimble or socket is preferably cylindrical in form and projects beyond the shank

B' of the knob, and its side walls are slitted longitudinally, as at f^2 , so that they operate with a spring tension and are adapted to inclose and bind a corresponding cylindrical stem H upon a folding fan I. The fan is thus provided with a detachable spring connection with the knob or head and is adapted to be received by and housed within the tubular handle A when the knob is in normal connection with the latter. When the knob is separated from the tubular handle A, it will carry the fan, or the fan may be disconnected by withdrawing its cylindrical stem H from the spring-thimble F when desired. It will be noted that the globular knob or head thus performs the double function of a knob or handle for the umbrella handle or stick and a knob or handle for the fan, that it is detachable from the umbrella handle or stick and will carry the fan in this detachment, and that it is also detachable from the fan. When the fan is connected with the knob B, it may be inserted within the tubular handle A, and the knob may be connected with said handle A by the operation of its screw-threaded connection therewith.

To further secure the fan in connection with the knob or head B against accidental detachment therefrom when said knob is screwed into or out of connection with the tubular handle A, I may provide, in addition to the spring-thimble connection, a further locking connection embodying an end slit f^3 at the inner end of the longitudinal slit or slot f^2 in the spring-walls of the thimble and at right angles to said longitudinal slot. The shank H of the fan is also provided with a laterally-projecting pin or stud h , which is adapted to slide within the longitudinal slit or slot f^2 and be turned into the right-angle end slot f^3 to lock the parts in secure connection. The end slot f^3 is preferably projected in a direction opposite to the direction of the turning movement of the threaded-joint connection between the shank of the knob or head and the tubular handle A in the operation of unscrewing the knob from the handle, whereby the tendency in this operation will be to force the stud h into positive engagement with the right-angle end slot f^3 .

If desired, I may arrange a cylindrical bushing or packing J between the walls of the spring-thimble or socket and the corrugated threaded walls of the stem B' of the knob, which bushing may be correspondingly slotted, as at j^2 and j^3 , by which construction and arrangement a greater depth of slot for the reception of the stud h is provided without any liability of the stud coming into contact with the corrugated or threaded walls of the shank of the knob.

The folding fan I, which is carried by the shank H, is preferably braced at its ends and

center by longitudinal metallic strips, as at i , which serve to preferably stiffen the fan in its insertible and detachable functions with respect to the tubular receiving-handle A.

Having fully described my invention, I claim as new and desire to secure by Letters Patent—

1. The herein-described device, comprising an umbrella provided with a tubular handle, the end of which is screw-threaded, a knob or head detachable from said handle and adapted to serve as the handle of a fan, said knob or head being provided with a tubular shank, which is screw-threaded, whereby it is adapted to be connected with the end of the handle, a tubular thimble or socket adapted to be secured within the said shank of the knob and provided at one side with a longitudinal slot, and a fan provided with a stem which is adapted to be inserted into said thimble or socket and to be secured therein, substantially as shown and described.

2. The herein-described device, comprising an umbrella provided with a tubular handle, the end of which is screw-threaded, a knob or head detachable from said handle and adapted to serve as the handle of a fan, said knob or head being provided with a tubular shank, which is screw-threaded, whereby it is adapted to be connected with the end of the handle, a tubular thimble or socket adapted to be secured within the said shank of the knob and provided at one side with a longitudinal slot, and a fan provided with a stem which is adapted to be inserted into said thimble or socket and to be secured therein, and the end of the handle into which the shank of the knob or head is inserted, being also provided with a casing or cover which conceals the screw-thread formed therein, substantially as shown and described.

3. The herein-described device, comprising an umbrella provided with a tubular handle, the end of which is screw-threaded, a knob or head detachable from said handle and adapted to serve as the handle of a fan, said knob or head being provided with a tubular shank, which is screw-threaded, whereby it is adapted to be connected with the end of the handle, a tubular thimble or socket adapted to be secured within the shank of the knob, and a fan provided with a stem which is adapted to be inserted into said thimble or socket and to be secured therein, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 13th day of December, 1897.

KATHARINE ELIZA LANDAU.

Witnesses:

L. M. MULLER,

A. C. McLOUGHLIN.