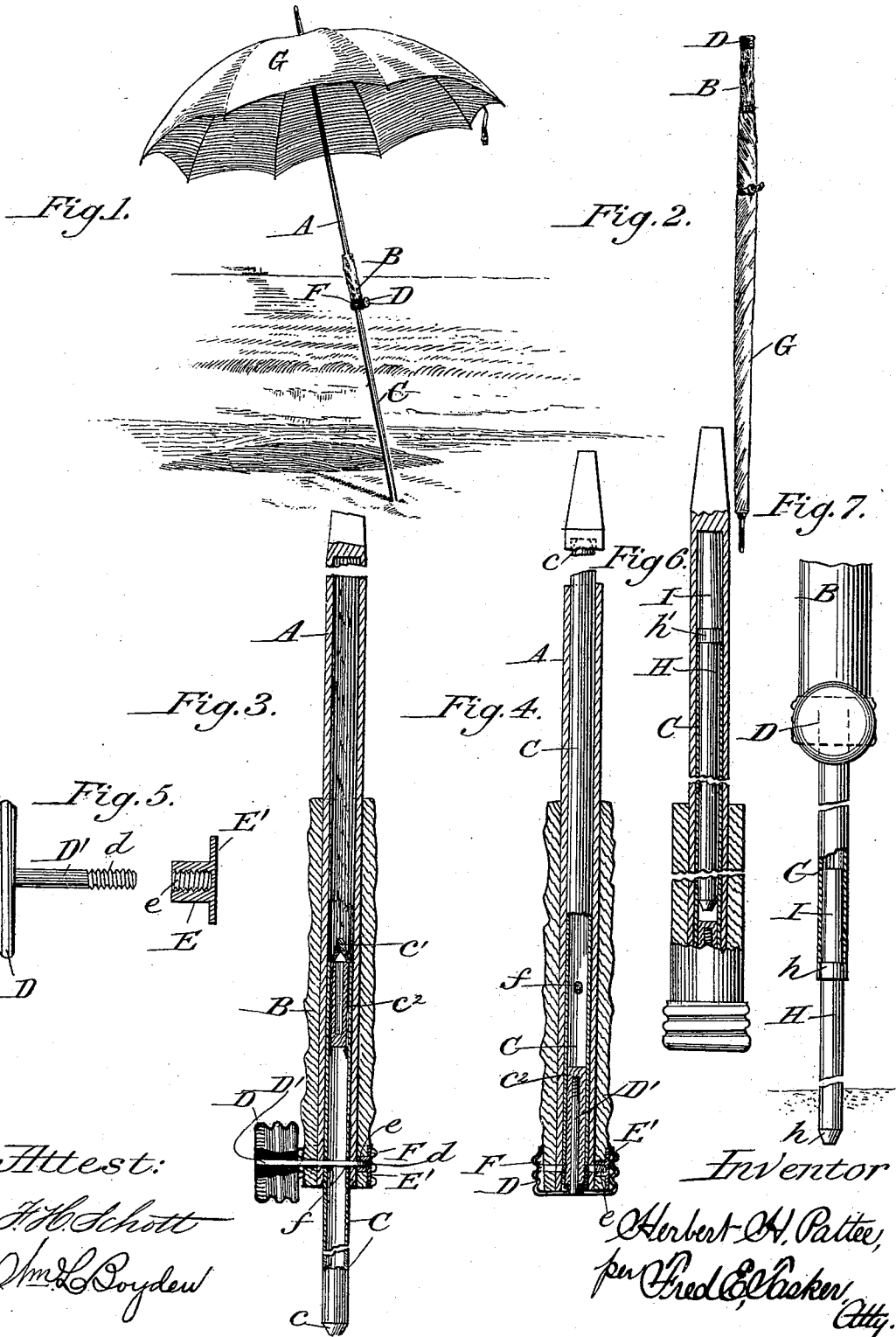


(No Model.)

H. H. PATTEE.
UMBRELLA SUPPORT.

No. 473,016.

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Attest:
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UNITED STATES PATENT OFFICE.

HERBERT H. PATTEE, OF WASHINGTON, DISTRICT OF COLUMBIA.

UMBRELLA-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 473,016, dated April 19, 1892.

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To all whom it may concern:

Be it known that I, HERBERT H. PATTEE, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Umbrella-Supports; 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 appertains to make and use the same.

This invention relates to an improvement in umbrella-supporters, the object thereof being to provide a simple, cheap, and efficient contrivance for sustaining or supporting umbrellas in an open position, it being particularly adapted for the supporting of sun-umbrellas on the beach or seashore, although equally serviceable for use in other kinds of umbrellas and in different localities and situations; and the invention consists, essentially, in the construction, arrangement, and combination of the several parts with their details, modifications, and equivalents, substantially as will be hereinafter described, and then more particularly pointed out in the claims.

In the annexed drawings, illustrating my invention, Figure 1 is a perspective view of an open umbrella with my improved supporting contrivance arranged in position to uphold the same and sustain it so that a person or persons may easily sit beneath its shade without being troubled to hold it. Fig. 2 is an elevational view of my improved self-supporting umbrella when closed and closely wrapped, so that it can be carried about with as much ease and convenience as any ordinary umbrella. Fig. 3 is an enlarged longitudinal sectional view showing the removable support in the position that it occupies after it has been removed from the umbrella-stick and connected to the handle in proper position to practically support the umbrella. Fig. 4 is a similar longitudinal sectional view showing the position of the several parts when the removable tube has been inserted within the hollow stick and the handle-cap has been fixed in place. Fig. 5 is an enlarged detail view of the pin-provided handle cap or knob. Fig. 6 is an enlarged detail sectional view showing a modification of the invention in the provision of an extra rod or tube, which

is placed inside of the first tube, so as to enable a longer support to be provided in order that the umbrella may be supported at a sufficient height to permit a person to sit beneath the same in a chair or for any other purpose, said Fig. 6 showing the position of the parts when the two supports are both within the umbrella-stick. Fig. 7 is a side view, in partial section, showing the two supports when removed from the stick and connected to each other, the lower end of one of them being inserted into the ground, while the upper end of the other is connected to the umbrella-handle.

Similar letters of reference designate corresponding parts throughout all the different figures of the drawings.

My invention is equally applicable to all kinds of umbrellas, sun-shades, parasols, and other coverings used for a similar purpose.

I deem the invention especially useful for beach-umbrellas, but do not wish to confine myself to this one kind.

G denotes the cover, A the hollow stick, of bamboo or any other suitable material, and B the handle proper. The hollow stick A may be of any suitable and desirable length, diameter, and thickness. The handle B may be of any suitable and desirable form, design, or shape. The characteristics of the stick, the handle, and the cover will vary greatly with umbrellas of different kinds, qualities, and sizes.

C denotes a tube, which may be of greater or less length and of proper diameter to enable it to be inserted easily into the hollow stick A and hollow handle B, as shown, for instance, in Figs. 2 and 4. In Fig. 4 the tubular support C is shown within the stick A. I make the supporting device C preferably hollow in order that it may be lighter. It may be solid, if preferred. The lower end of the tube C is preferably pointed in order that it may be easily inserted into the ground or sand at the point where it may be desired to support the umbrella, and may be furnished with a metallic or other point or ferrule *c*. The relative length of the tube C as compared with that of the handle or stick A can be determined by experiment and use. The opposite end of the tube C is provided with a loop of tape *c'* or with some other suitable flexible projection which can

be grasped for the purpose of withdrawing the tube C from its position within the handle A. I preferably provide a flexible tape c' , in order that it may be easily compressed to occupy a small compass. It is affixed to the end of the tube C in any desired manner. When this tube C is employed, it will be found convenient to plug the end thereof adjacent to the tape c' with some suitable plug, as c^2 , made of wood or any other desired material, and which plug has a longitudinal passage of small diameter adapted to receive the pin D' on the handle-cap.

After the tube C has been withdrawn from its position within the hollow handle A it will be reversed and the tape-provided end be inserted into the handle B or stick A in the manner shown in Fig. 3. The insertion of this end of the tube C will only be for a short distance, however, just enough to make a stiff connection between them, and then the device which is to hold them connected will be fixed in place. I will proceed to describe a preferable form of this device. Surrounding the outer end of the handle B is an external threaded sleeve F, its threads being coarse and few in number. D denotes a cap, which is screw-threaded and is adapted to screw over the threaded sleeve F. The cap D is provided interiorly with a central rigid pin D' . When the cap D has been screwed down over the ferrule or band F, the tube C being within the stick A, then the pin D' will occupy a position within the end of said stick—that is to say, it will lie within the longitudinal passage in the plug c^2 , of which I have already spoken. The pin-provided screw-cap, however, is also employed to hold the tube C firmly connected to the handle B when the said tube is being employed as a prop or support in the manner shown in Figs. 1 and 3. In this case pin D' is passed through perforations in the handle B and likewise through a perforation f in the tube C. In this way the tube C is firmly connected to the handle B. In order that this connection may be more secure and to prevent the pin-provided cap from falling out of its hole, a result which might take place as an incident to the constant oscillation of the umbrella when blown by the wind, I preferably provide a nut E, which is internally screw-threaded at e and is provided with a plate E' , and this plate E' is located inside of the screw-threaded ferrule F, with the nut E occupying a position adjacent to the perforation in the handle B. When thus fixed in place, the nut E will be rigid and immovable and will be so held by means of the ferrule F; also, the pin D' is screw-threaded at its outer end at d . Therefore, after the pin D' has been inserted through the perforation in the handle B and also that in the tube C the screw-threaded end thereof will enter the nut E, and then by giving the cap D a few rotations the threads on the end d will engage the threads e , and thus a firm connection will be

made, and the pin cannot then slip out of place, no matter how much the umbrella may vibrate or shake. When the end of the tube C has been thus connected to the umbrella-stick or its handle, the other end of said tube C can be inserted into the sand or ground in the manner shown in Fig. 1, and thus the umbrella is rendered self-supporting. On the other hand, although it has this self-supporting character it is none the less conveniently portable, for the tube C can be readily inserted into the handle, and after the screw-cap has been fixed in place in the manner shown in Figs 2 and 4 the umbrella will present only the appearance of an ordinary umbrella, and neither will its weight be increased, nor will it be bulky and cumbersome. Thus an umbrella constructed in accordance with the principles of the present invention has many valuable advantages for use as a seaside-umbrella without having any inconveniences attending the addition thereto of the extra mechanical parts.

It will oftentimes be found that the length of the single tube C will be insufficient to hold the umbrella-cover G at the necessary height when the person desires to sit in a chair under the umbrella or when it is found desirable to fix said umbrella at a certain definite height some distance above a particular object. Therefore I have provided means for increasing the length of the tube C by duplicating the same—that is to say, I provide another tube or rod H, which is adapted to be inserted within the tube C when the latter is in position within the umbrella-stick A, and also to be removed from stick C and affixed to the lower end thereof when the supporting contrivance is put into practical use, thereby increasing the length of the stick C, so that the supporting device is enabled to hold the umbrella-cover at the necessary height already alluded to.

Referring to Figs. 6 and 7 it will be seen how the tube or rod H is arranged. Said rod H may be a solid rod, if desired, or it may be of tubular or hollow form. It is provided, preferably, with the pointed end h , which is adapted to be inserted into the ground, and also with a collar h' , located a suitable distance from its other end, so that there may be left a section I at one end of the rod or tube H, which is adapted to be inserted into the lower end of the tube C after the rod or tube H has been removed from said tube and reversed, in order that a connection may be made between the end of rod or tube H and the tube C. When the rod or tube H is employed, the pointed end c of the tube C will be dispensed with, obviously. When the parts are all inclosed inside of the umbrella-stick in the manner shown in Fig. 6, it will be obvious that the main portion of the rod or tube H will lie within the tube C, while the end section I will occupy a position within the stick A near the point where the cover is attached thereto. The manner of connecting the rod or tube H

to the tube C after said tube has been withdrawn from the tube C is shown in Fig. 7, where it is seen that the end section I has been inserted into the open lower end of tube C, which tube rests upon the collar *h*.

Numerous details may be made in the construction, arrangement, form, and outline of the various parts, and I do not wish to be restricted or confined exactly to what I have shown and described herein; but reserve the liberty of varying the form, proportions, connections, and parts in such a manner as will enable me to construct my invention in the manner best adapted for practical use.

It will be observed that the nut E may be dispensed with, if desired. I use it only at such times as it is thought necessary. More than one perforation may be made in the handle B for the passage of the pin D', and, if it is desired, there may be two such cross-perforations, one of which will be provided at its end with a nut E and the other without the same, so that it may be optional with the user whether he will connect the pin D' or will allow it to lie loosely; also, it is conceivable that I may provide more than the two supports which are shown. I may increase the number to three or more by making the parts sufficiently light and hollow; also, any other variations may take place, keeping all the while within the scope of the present invention.

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

1. The combination of a hollow handle and stick to which an umbrella-cover is attached, a removable cylindrical support within said stick, and a pin-provided screw-cap which closes the end of the stick when the cylindrical support is within the same and is used to connect said cylindrical support to the stick after the support has been removed therefrom.

2. The combination of a hollow handle and stick to which an umbrella-cover is attached, a removable tube within said stick, a removable rod or tube within the first-mentioned tube, and the pin-provided screw-cap which closes the end of the stick when the first-named tube and the last-named tube or rod are arranged within the stick and is used to connect the first-mentioned tube with the hollow umbrella-stick after the former has been removed therefrom.

3. The combination of a hollow stick A, to

which an umbrella-cover is attached, the tube C, located removably within said stick, and the pin-provided cap D, located on the end of stick A to close the said end, but adapted to be removed therefrom and used as a connecting device for the tube and stick after the former has been removed from the latter.

4. The combination of the hollow stick A, to which an umbrella-cover G is attached, the cylindrical support C, located removably within said hollow stick, said cylindrical support being provided near one end with the perforation *f*, and the hollow cap B, located removably on the end of the umbrella-stick, said cap being provided with an internal pin D', which is adapted to serve in connecting the cylindrical support C to the stick A through the perforation *f* after the cylindrical support has been removed from the stick, substantially as described.

5. The combination of a hollow stick A, carrying an umbrella-cover G, the removable cylindrical support C, located within the stick A, the removable rod or tube H, located within the said cylindrical support C, and the pin-provided cap which fits over the handle when all the parts are within the stick and serves at other times as a connection, substantially as described.

6. The combination of a hollow stick A and handle B, the cylindrical support C within the same, the screw-threaded ferrule F, surrounding the end of handle B, the screw-threaded cap D, adapted to engage said ferrule and provided with a pin D', which pin is employed to connect the cylindrical support C to the stick A after said support has been removed from the stick, substantially as described.

7. The combination of a handle B and stick A, a removable tube C within said handle and stick, a screw-threaded sleeve F, surrounding the end of the handle B, a nut E, located inside of the sleeve F, and a screw-cap D, provided with a rigid pin D', screw-threaded at its end at *d*, which pin is adapted to connect the tube C to the stick A after the said tube has been removed from the stick, all substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

HERBERT H. PATTEE.

Witnesses:

GEO. L. CLARK,
WM. L. BOYDEN.