

(No Model.)

A. HALL.
POCKET UMBRELLA.

No. 352,868.

Patented Nov. 16, 1886.

Fig. 1.

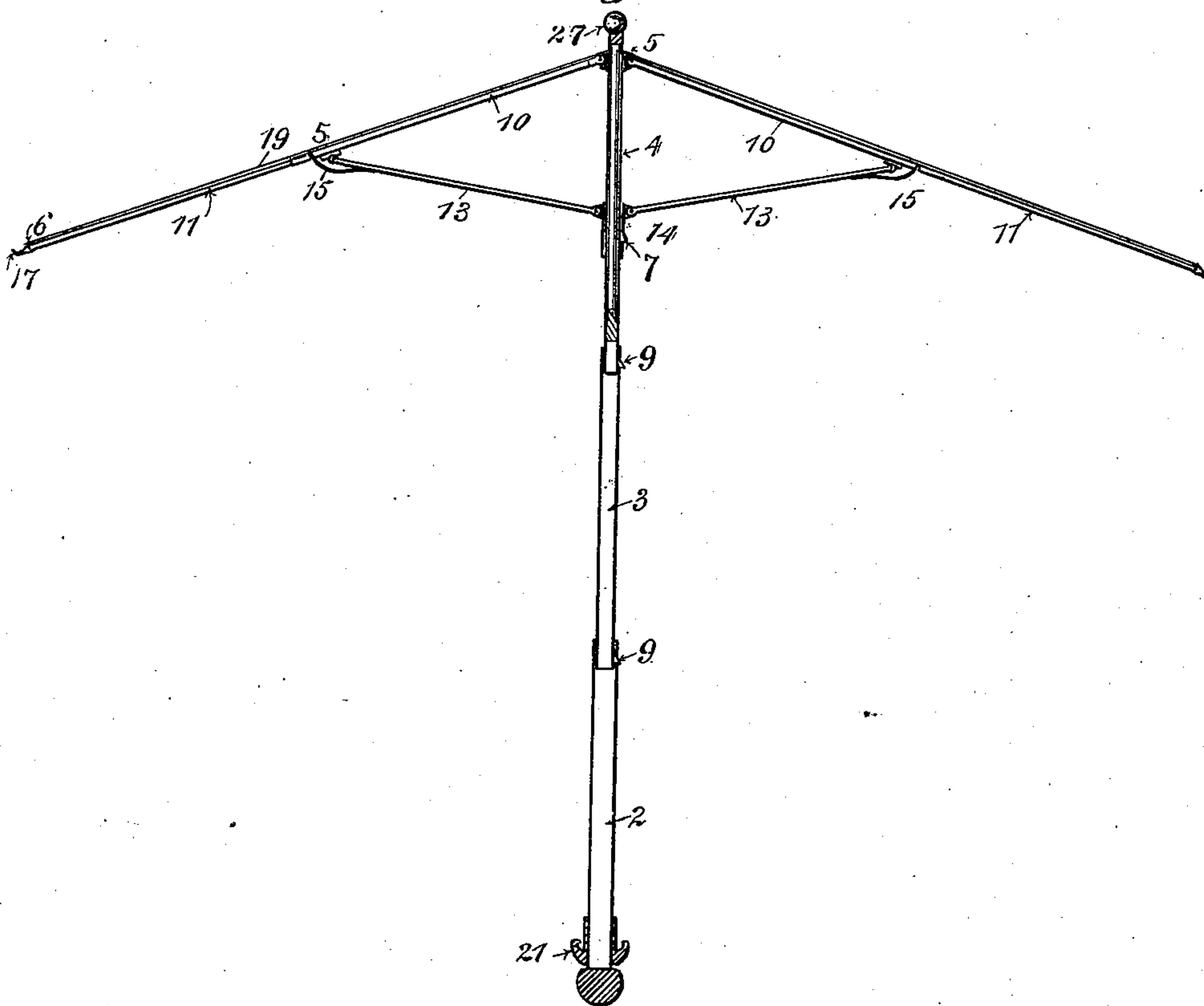
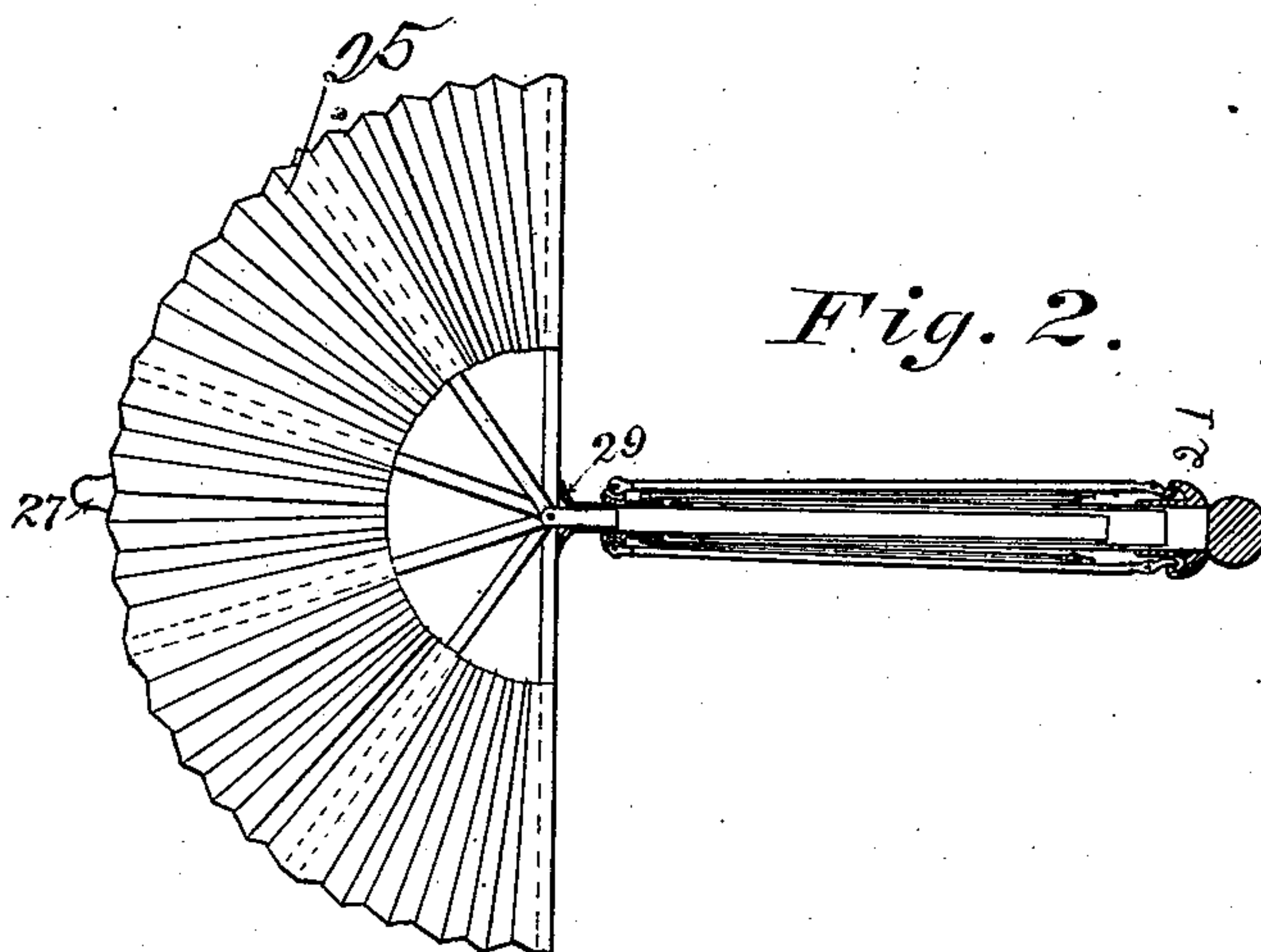


Fig. 2.



Witnesses

Geo. M. Neill

Richard Paul

Inventor

Alfred Hall.
By A. L. Paul
Attorney

UNITED STATES PATENT OFFICE.

ALFRED HALL, OF MINNEAPOLIS, ASSIGNOR OF ONE-HALF TO JAMES BARRY,
OF WILLMAR, MINNESOTA.

POCKET-UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 352,868, dated November 16, 1886.

Application filed September 21, 1885. Serial No. 177,757. (No model.)

To all whom it may concern:

Be it known that I, ALFRED HALL, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain Improvements in Pocket-Umbrellas, of which the following is a specification.

My invention relates to improvements in umbrellas or parasols; and the objects I have in view are to provide an umbrella that can, when not in use, be folded up into a small compass and put in an ordinary-sized pocket, or into a valise or satchel; and my invention consists, generally, in the construction and combination of devices, hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a vertical section of an umbrella having my improvements applied thereto. Fig. 2 is a section, without the cloth, of the umbrella closed, and showing the fan open.

The handle of the umbrella is composed of several joints or lengths adapted to telescope together when the umbrella is to be closed. Suitable springs, 9, are provided for holding the joints in their extended position. The ribs 10 are pivoted or hinged to the upper joint in the usual manner. These ribs are hollow, and in length are equal to about one-half the diameter of the cloth or covering. Within the ribs 10 are the rods 11, sliding freely therein, and forming the lower portions of the ribs of the umbrella when drawn out, as in Fig. 1. To the ribs 10, near their lower ends, are hinged the braces 13, which have their opposite ends hinged to the ring or runner 14 in the usual manner.

When the umbrella is to be closed, the runner is slid toward the upper end of the joint 4, carrying the braces 13 against the ribs 10, the length of the braces 13 being substantially equal to the distance from the point on the ribs at which the braces are hinged to it to the point at which the ribs are pivoted to the handle. A suitable spring, 7, is provided to hold the runner down when the umbrella is open. On the ends of the braces I form the spring-toes 15, and provide suitable openings in the ribs 10, so that when the runner is drawn down to the position shown in Fig. 1 these toes pro-

ject into the ribs and form stops to prevent the rods 11 from being pushed up into the ribs. When the runner is pushed up on the handle, the toes are turned out of the holes in the ribs, and the rods may then be pushed into the upper or hollow part of the ribs. The ends of the rods 11 are provided with the hooks 17, and the lower section of the handle is provided with the flanged tip-cup 21.

When the umbrella is closed, the hooks are inserted within the flange of the tip-cup, and then by drawing down the handle all of the rods are drawn out of the hollow ribs. As soon as the rods are drawn out as far as the cloth will permit the hooks are released from the flange and the umbrella may then be readily opened. The toes 15 enter the openings in the ribs and keep the rods in place.

The covering may be of any suitable material, and it is secured to the hollow ribs at the points 5, and to the rods 11 at the point 6.

Into the end of the upper section of the handle I may insert a fan, 25. This fan may be of any suitable construction, but it is preferably provided with a tab, 27, which may be in the form of a stopper and adapted to close the end of the tube, and with springs 29, which open the fan as soon as it is drawn nearly out of the tube. A string may be attached to the lower end of the fan and run through the tubes, by means of which the fan may be drawn down into the tube.

The tubes 2, 3, and 4, forming the handle, may be of any suitable size and length, and they may be made rectangular in cross-section, or may be provided with suitable splines and grooves, to prevent twisting or turning. The hollow ribs 10 may also be made rectangular in cross-section, in which case the rods 11 will be of corresponding shape.

I claim as my invention—

1. The combination, with the handle composed of the sections 2, 3, and 4, of the hollow ribs 10, the rods 11, sliding therein, the runner 14, adapted to slide upward as the umbrella is closed, the braces 13, attached to the runner 14 and to the hollow ribs 10, and the cloth 19, all substantially as described, and for the purpose set forth.

2. The combination, with the sectional handle 2, 3, and 4, of the hollow ribs 10, having

openings in their under sides, the rods 11, sliding in said ribs, the runner 14, and the braces 13, attached to said runner and to the ribs 10, and having the spring-toes 15 projecting into
5 said ribs, as and for the purpose set forth.

3. The combination, with the sectional handle 2 3 4, of the hollow ribs 10, runner 14,

braces 13, rods 11, having hooks 17, and the flanged tip-cup 21, all substantially as described, and for the purpose set forth.

ALFRED HALL.

Witnesses:

A. C. PAUL,

JAS. E. WOODFORD.