

C. SCHONERT.

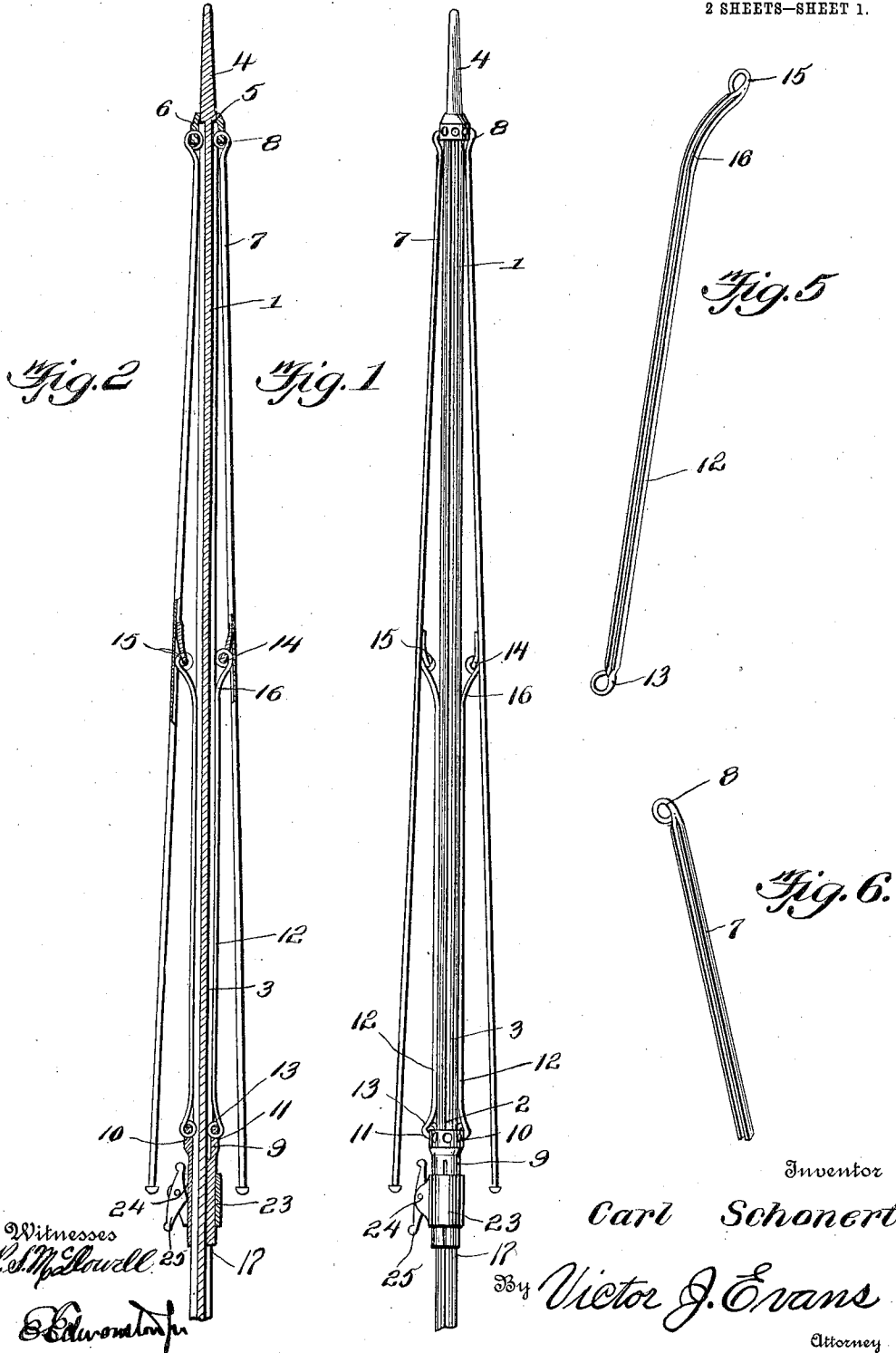
UMBRELLA.

APPLICATION FILED FEB. 25, 1911.

1,037,060.

Patented Aug. 27, 1912.

2 SHEETS—SHEET 1.



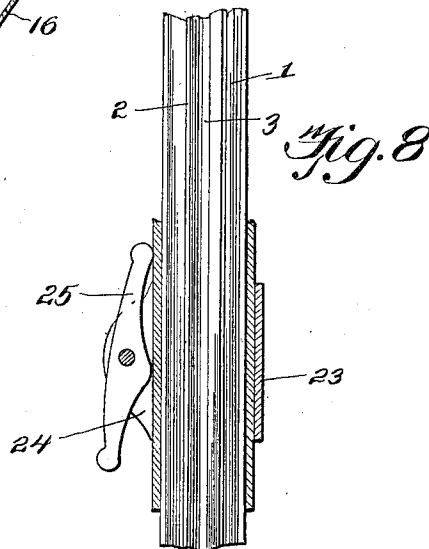
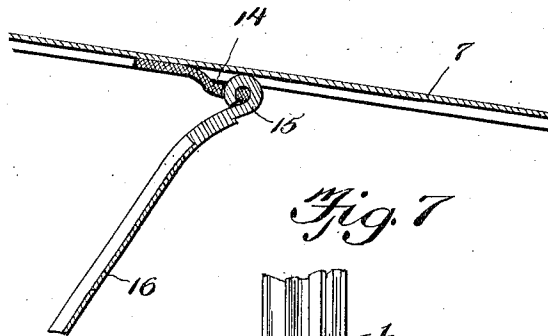
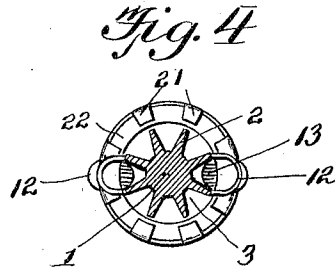
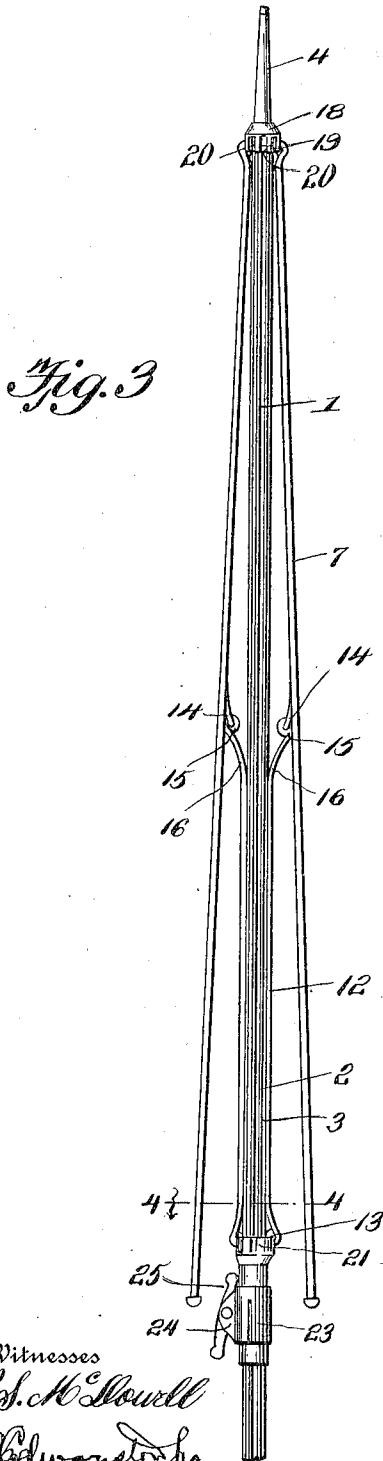
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Witnesses
W. S. McLaughlin
E. Edwards

Inventor
Carl Schonert
By Victor J. Evans
Attorney

UNITED STATES PATENT OFFICE.

CARL SCHONERT, OF NEWARK, NEW JERSEY.

UMBRELLA.

1,037,060.

Specification of Letters Patent.

Patented Aug. 27, 1912.

Application filed February 25, 1911. Serial No. 610,720.

To all whom it may concern:

Be it known that I, CARL SCHONERT, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented new and useful Improvements in Umbrellas, of which the following is a specification.

This invention relates to umbrellas, the object of the invention being to connect the ribs with the top-notch and braces to the runner and ribs without the use of rivets, bolts and the like.

A further object of the invention is the provision of means for connecting the braces to the runners in such a manner that they will coact with the grooves in the staff to prevent the runner from turning thereon, and a further object is the provision of such a connection in combination with a grooved staff so that the braces will lie within the grooves and thereby make the umbrella fold closely.

A still further object of the invention is the provision of a novel brace having an offset end which tends to throw the ribs outwardly when the runner is moved toward the top-notch.

Further objects of the invention will appear as the following specific description is read in connection with the accompanying drawings, which form a part of this application, and in which:—

Figure 1 is a detail side elevation showing one form of the device. Fig. 2 is a detail vertical section therethrough. Fig. 3 is a detail side elevation of a modified form. Fig. 4 is a horizontal section taken on the line 4—4 of Fig. 3. Fig. 5 is a detail perspective view of the connecting braces. Fig. 6 is a similar view of one end of the ribs. Fig. 7 is a detail section showing the connection of the braces with the ribs. Fig. 8 is a detail sectional view showing one form of runner lock.

Referring more particularly to the drawings, 1 represents the staff which is provided throughout its length with a plurality of ribs 2 forming grooves 3. The outer end of the staff is reduced at 4 and seated upon the shoulder 5 formed by said reduction is a top-notch 6. Heretofore, these top-notches have been constructed of one or more members joined together and with notches formed in their peripheries to receive the ribs which were connected by means of a wire or by rivets. The top-

notch illustrated herein is provided with a plurality of apertures arranged coincident with the grooves 3 in the staff and are adapted to receive the ends of the ribs 7 which, after being placed in the holes, are bent into the form of eyes 8, a portion of which lies in the grooves.

The runner is indicated at 9 and is somewhat enlarged at its upper end, as shown at 10, where it is provided with a plurality of holes 11 coincident with the grooves 3 and adapted to receive the inner ends of the connecting braces 12 which, when being engaged with the holes in the runner, are bent into eyes 13. These eyes 13 have a portion thereof lying in the grooves 3 so as to prevent the runner from rotating upon the staff. The opposite ends of the braces are engaged with eyes 14 secured to the ribs 7 by brazing or in any other suitable manner and the outer eye 15 of each brace, which engages the eye 14 on the rib, rests against the inner hole of the rib, as shown in Fig. 7, so as to prevent wear upon the eye 14 and also to prevent its disengagement from the rib. The outer ends of these braces, adjacent the ear, are slightly offset or bent at an angle, as shown at 16, to the normal plane of the braces, so that when the runner is pushed toward the top-notch the tendency of the braces will be to force the ribs outwardly instead of to press the same against the top-notch until the ribs spring as is usual with umbrellas now commonly used. The runner may be further provided with an internal rib 17 which engages one of the grooves so as to prevent rotation thereof, but it is believed that in practice this will be found to be unnecessary, as a portion of the eyes 13 will always be in engagement with the grooves and therefore prevent rotation without any other device.

In the modification shown in Fig. 3, the top-notch is indicated at 18, and has a plurality of separated fingers extending downwardly therefrom which are coincident with the ribs and therefore bring the notches formed thereby coincident with the grooves. The ribs have their rear ends seated in the notches and all engaged by a circular ring 19 which is held in place by bending the ends of the flanges inwardly, as shown at 20. The runner is constructed in the same manner, the fingers and ring being indicated at 21 and 22 respectively to

hold the inner ends of the braces to said runner.

The runner in each instance is preferably split on both sides longitudinally and surrounding its lower end is a clamping sleeve 23 having laterally extending pivoting ears 24 in which is journaled a cam lever 25 adapted to bear against one side of the runner. In one position the cam lever 25 permits free sliding of the runner upon the staff, while, in its other position, the cam thereon acts to clamp the runner upon the staff. It will be clearly understood that while this simple form of runner clamp is illustrated herein, I do not wish to confine myself to this type, as many other forms may be adopted in connection with the runners illustrated.

Having thus described the invention, what I claim as new is:—

In a device of the class described, a staff,

a rib mounting device carried thereby, ribs pivotally connected to said device, braces pivotally connected to said ribs, a longitudinally split runner slidably mounted upon the staff, a clamping sleeve having laterally extending pivoted ears, a cam lever journaled in said ears and in one position of said lever permits free sliding of the runner upon the staff, on its other position a cam thereon acts to clamp the runner upon the staff and inwardly extending fingers connected to said runner and adapted to receive the lower eye portions of the braces for pivotally connecting the same to the runner.

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

CARL SCHONERT.

Witnesses:

B. ADALBERT FRALKY,
FRANK G. KIRK.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."