J. H. Parsons.

Umbrella.

No. 51,616. Patented Dec. 19, 1865.

Fig. 1.

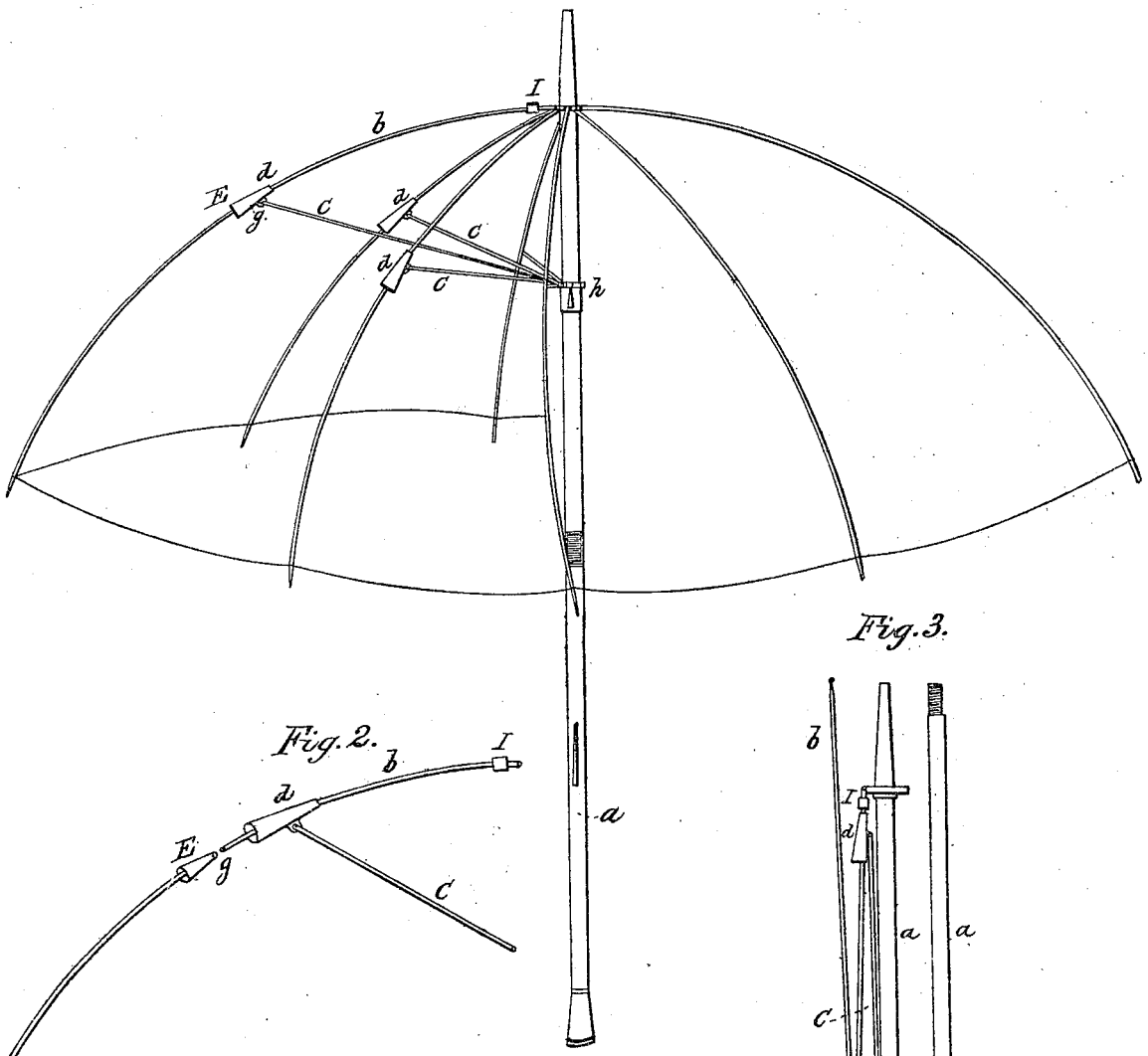


Fig. 2.

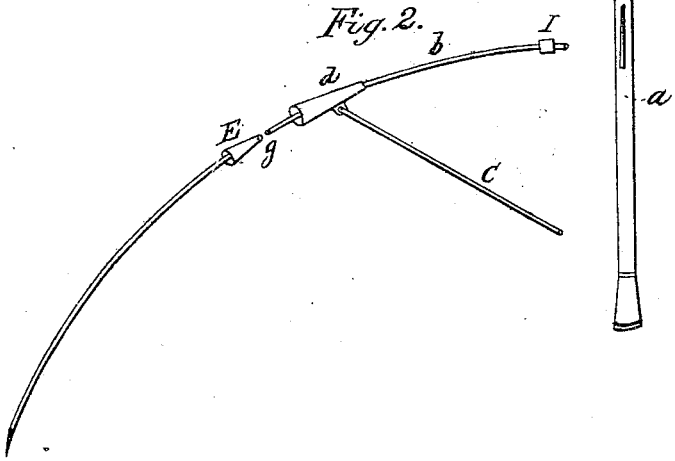
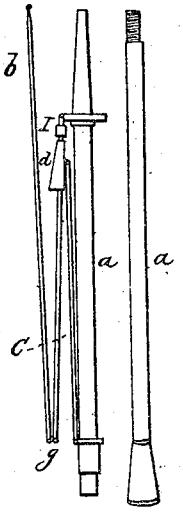


Fig. 3.



Witnesses.

A. J. Burroughs.

C. S. Beardsley.

Inventor.

John H. Parsons.

UNITED STATES PATENT OFFICE.

JOHN H. PARSONS, OF QUINCY, MICHIGAN.

IMPROVEMENT IN UMBRELLAS.

Specification forming part of Letters Patent No. **51,616**, dated December 19, 1865.

To all whom it may concern:

Be it known that I, JOHN H. PARSONS, of Quincy, in the county of Branch, and in the State of Michigan, have invented a new and useful Improvement in Umbrella-Frames; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and the letters of reference marked thereon.

The nature of my invention consists in the use of a knuckle-joint in each of the bows of an umbrella-frame, which, when in use, are kept straight by the use of a small cone-shaped slide fitting closely over the joint. The staff I construct in two parts, screwing together in or about the middle. The object of the knuckle-joint in the bows is that they may be folded together and occupy only half the space that they do when in use. The staff also being made in two parts, by unscrewing the lower part the two in length occupy the same as the bows.

For a more exact and definite description of my invention, its construction and operation, reference is made to the accompanying drawings, in which—

Figure 1 is a perspective view; Fig. 2, a reverse section. Fig. 3 represents the manner in which the frame is closed or folded.

Let Fig. 1 represent an umbrella-frame opened or spread, the left-hand part showing the frame, and in which are the improvement I claim: letter *a*, the staff; letters *b b b*, the bows; letters *c c c*, the rods running from the slide *h* on the staff *a*. I make a knuckle-joint in each of the bows at the point *g*, the object of which is that the lower part of the bows may be turned parallel with the upper part. I attach the upper ends of the rods *c c c* to a movable cone or slide, *d*, which can be slid up or down the bows. By sliding them down over the joint at *g* they fit closely over the joint and on a cone-shaped ferrule at E, just below the joint, and make the bows straight and firm at the joints *g*.

For a more distinct description of the operation of the bow and slide reference is made to a sectional view in Fig. 2, in which—

Let letter *b* represent a detached bow. The knuckle-joint will be seen at *g*, just below which is a ferrule on the bow. This ferrule is made cone-shaped, so that the slide *d* may fit closely over it and hold the joint firm. The cone-shaped hollow slide *d* is made to slide up or down the bow by the rod *c*. In order to keep the slide *d* closely fitted over the ferrule, I use the small tightly-fitted slide I, which is pushed down against the upper end of the slide *d*, and keeps it in its proper place while in use.

In order to fold the umbrella-frame, Fig. 1, the small slides I should be pushed up to the top of the bows; and by drawing the slide *h* on the staff down, which closes the frame, as in the common umbrella, then by giving it a slight jar on the top of the staff downward, the slides *d* fall to the point I, drawing the slide *h* past the point where the staff unscrews. The lower part of the bows will at once fall back parallel with the upper part, as represented in Fig. 3 at *b* and J. The staff being unscrewed, the two parts may be laid side by side, as at *a a*, and by attaching a band around the whole the umbrella is folded for packing or traveling purposes.

The umbrella I construct in any of the known ways to which I apply the above-described improvement. The slides or hollow cones are made of any durable metal. The small tight slides are made of rubber or fine leather, inclosed in a metal band to insure its durability and fit tightly to the bows.

I claim as a new and useful improvement in umbrellas—

The arrangement herein described of the knuckle-joints, the conical and tight slides, the ferrules, and the detachable and folding staff, substantially as described.

JOHN H. PARSONS.

Witnesses:
SIMM SPRAIMAN,
G. O. BAILEY.