C. B. SPENCER.

Umbrellas.

No. 144,876. Patented Nov. 25, 1873.

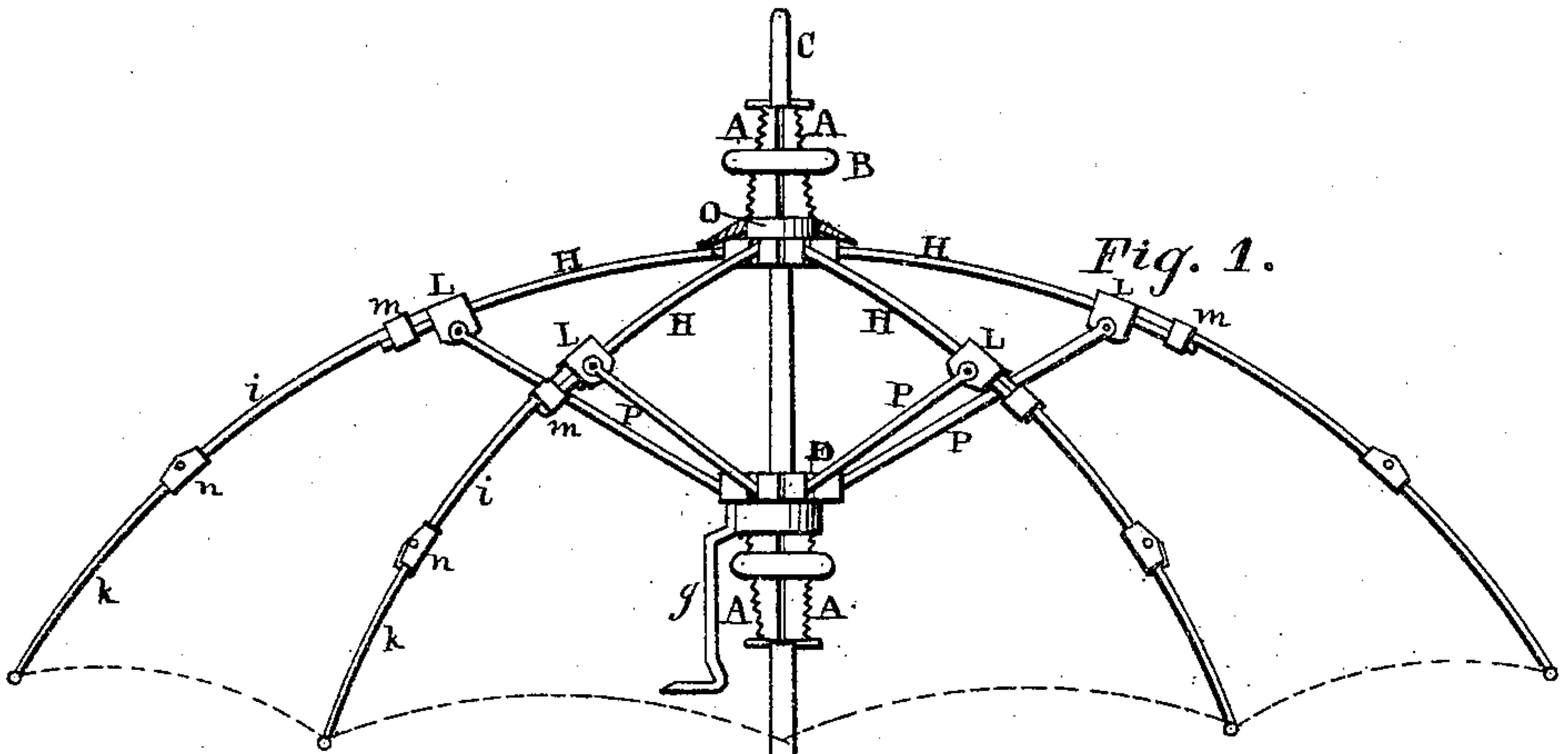

Fig. 1.

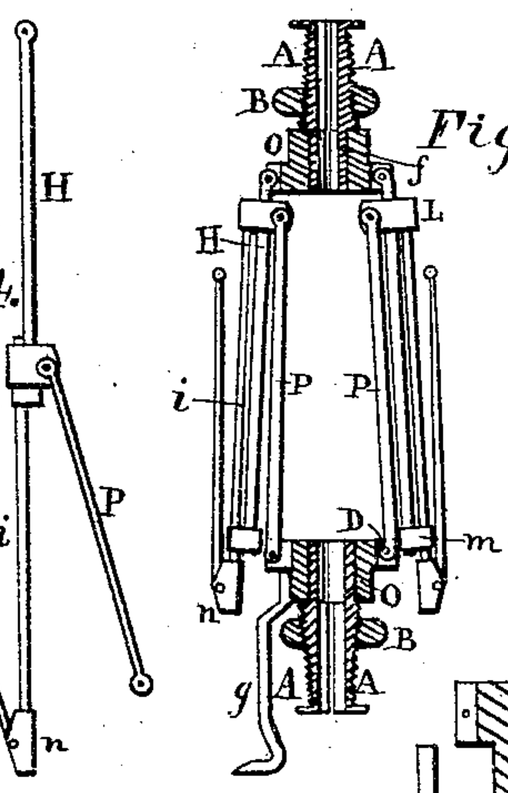

Fig. 4.

Fig. 2.

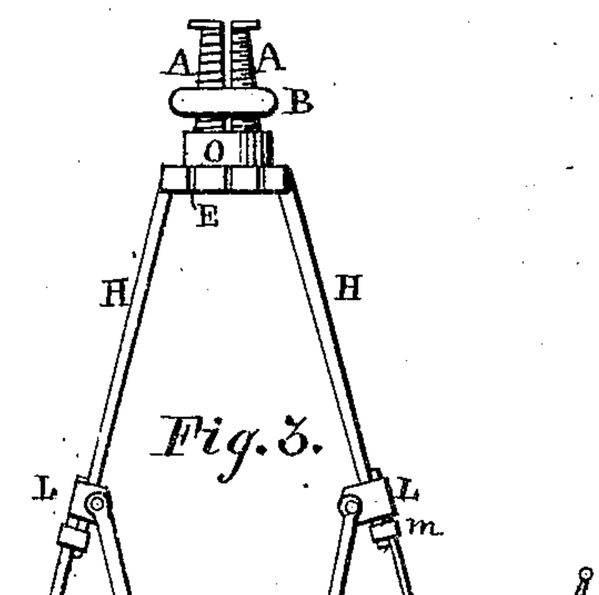

Fig. 3.

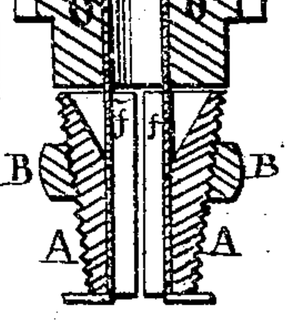

Fig. 5.

Fig. 11.

Fig. 10.

Fig. 12.

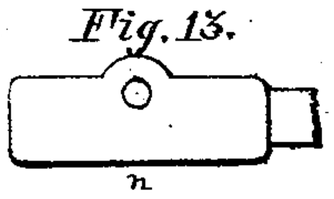

Fig. 13.

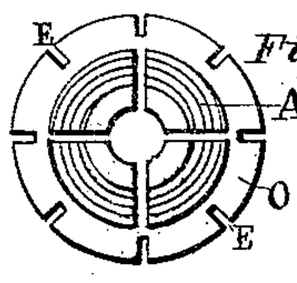

Fig. 6.

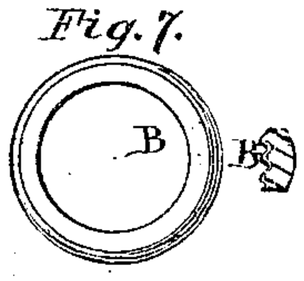

Fig. 7.

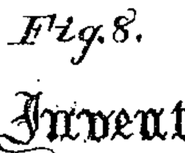

Fig. 8.

Witnesses.

G. S. Winslow

G. F. Greene

Inventor,

Charles B. Spencer

UNITED STATES PATENT OFFICE.

CHARLES B. SPENCER, OF HASTINGS, MINNESOTA, ASSIGNOR OF ONE-HALF HIS RIGHT TO MARCUS MARX, OF SAME PLACE.

IMPROVEMENT IN UMBRELLAS.

Specification forming part of Letters Patent No. **144,876**, dated November 25, 1873; application filed April 29, 1873.

To all whom it may concern:

Be it known that I, CHARLES B. SPENCER, of Hastings, in the county of Dakota and State of Minnesota, have invented certain Improvements in Umbrellas and Sunshades, of which the following is a specification:

The first part of my invention relates to the combination of an adjustable sliding and folding umbrella or sunshade, the umbrella or sunshade to be folded up, so that it can be put in a valise or coat-pocket when traveling, and to be attached to the cane when in use. The second part of my invention relates to the combination of sectional screw-ring fastening, by which the umbrella or sunshade is attached to the cane.

Figure 1 is a side elevation of an umbrella when spread, embodying my invention. Fig. 2 is a view of the umbrella when detached from the cane C and folded up to put in a valise or pocket. Fig. 3 is the same half folded up. Fig. 4 is a view of the sliding and folding arms and brace-arm, all of which may be made of square or half-round steel or tempered brass. Fig. 5 is a quarter sectional view of the screw-ring fastening that holds the cane in place when the same is attached to the umbrella. Fig. 6 is an end view of the screw-ring fastening in four sections, which, if preferred, may be made in two sections. Fig. 7 is the screw-ring having thread on the inside to fit the screw on each section, which, when turned with thumb and finger, compresses each section against the cane and holds the same in place. Fig. 8 is an end view of screw-ring, showing thread on the inside. Fig. 9 is a view of the thumb-piece. Fig. 10 is an end of the block which slides up and down on the arm, to which the brace-arm is attached. Fig. 11 is an end view of the band that holds the sliding arms in place. Figs. 12 and 13 are, respectively, end and side views of the block in which the folding arms swing and are prevented from swinging sidewise, and forms a stop.

A A in Fig. 5 represent two sections of the upper and lower fastening, made and shaped like tapered screws, and cut in two or four sections, which gripe the cane G by turning ring B, and holds the same in place. *f f* is the spring by which each member A is attached to the member O, and having on the inside fine teeth, by which the cane C is held firmly in place. *g* in Fig. 9 is a thumb-piece attached to the lower fastening-member O, as shown in Figs. 1, 2, and 3. H in Fig. 4 is the upper sliding arm, the upper end of which is made to fit slot E, as shown in Fig. 6, and the lower end passes through block L, to which the brace-arm P is attached. One end of brace-arm P is fitted to slot E, (shown on Fig. 6,) and is attached to the upper end of the lower fastening with wire running round the same in slot D, as shown in Fig. 5. *m* is the band that holds the sliding arms together. I is the center sliding arm, to which the folding arm *k* is attached by a block, which is prepared with slot in lower end for arm *k* to rest in, as shown in Figs. 12 and 13.

I make no claim to the cane C, or the mode by which the upper end of the arm H or the lower end of the brace-arm P is attached with wire to the fastenings; but

I claim as my invention—

The combination of adjustable fastening-sections A, screw-ring B, springs *f*, thumb-piece *g*, sliding arms H and I, folding arms *k*, and block N, substantially as and for the purpose herein set forth.

CHARLES B. SPENCER.

Witnesses:

G. S. WINSLOW,

G. F. GREENE.