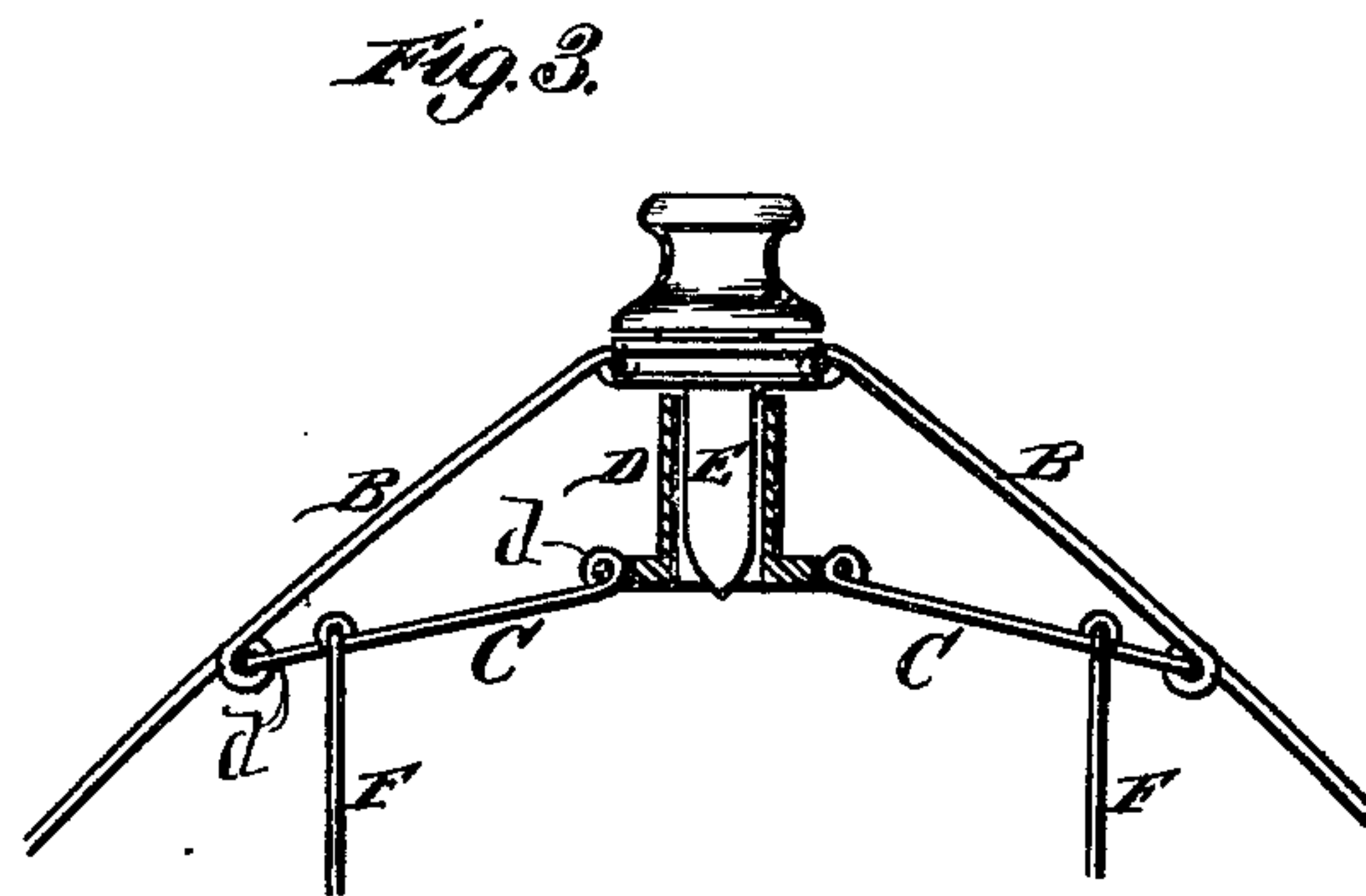
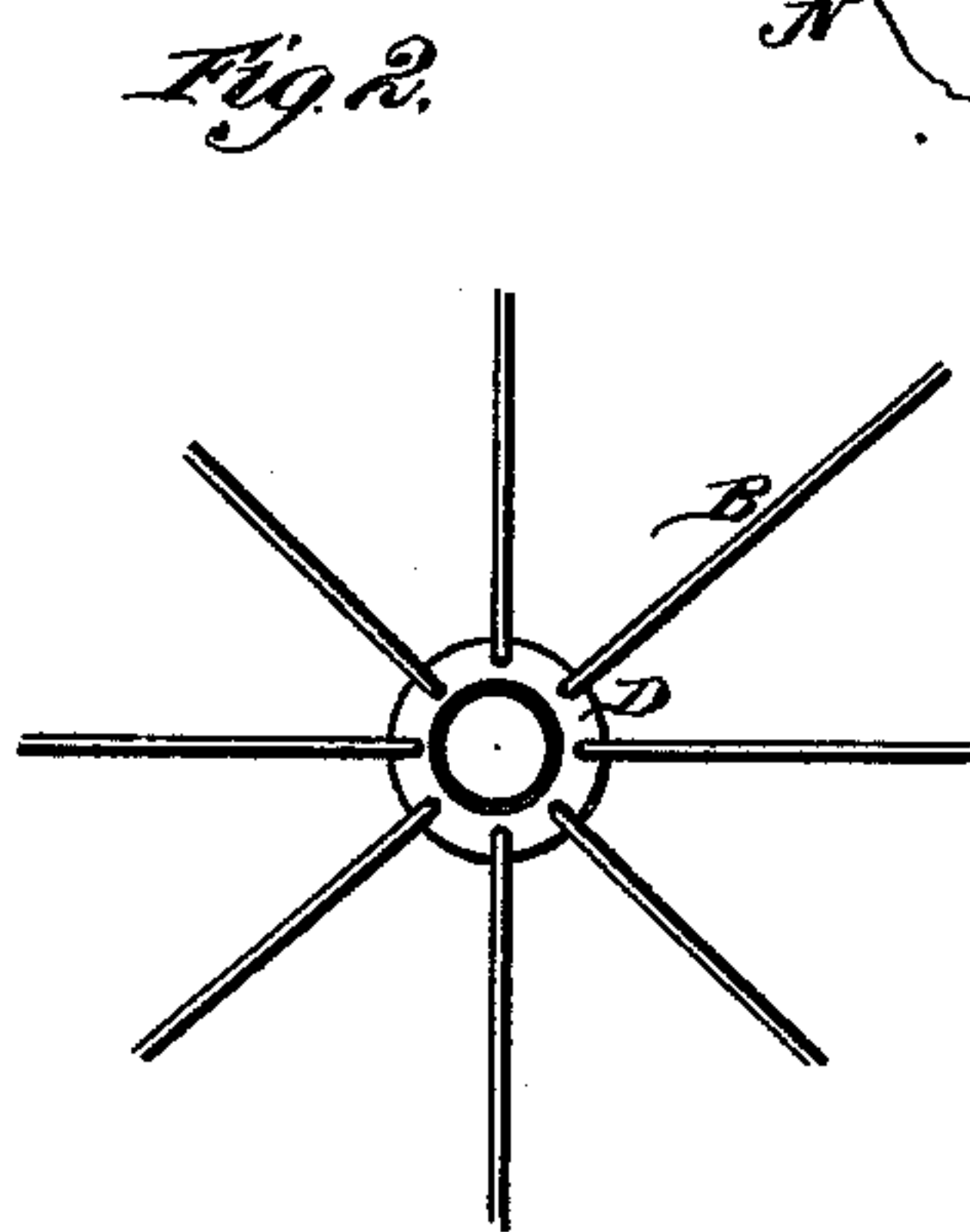
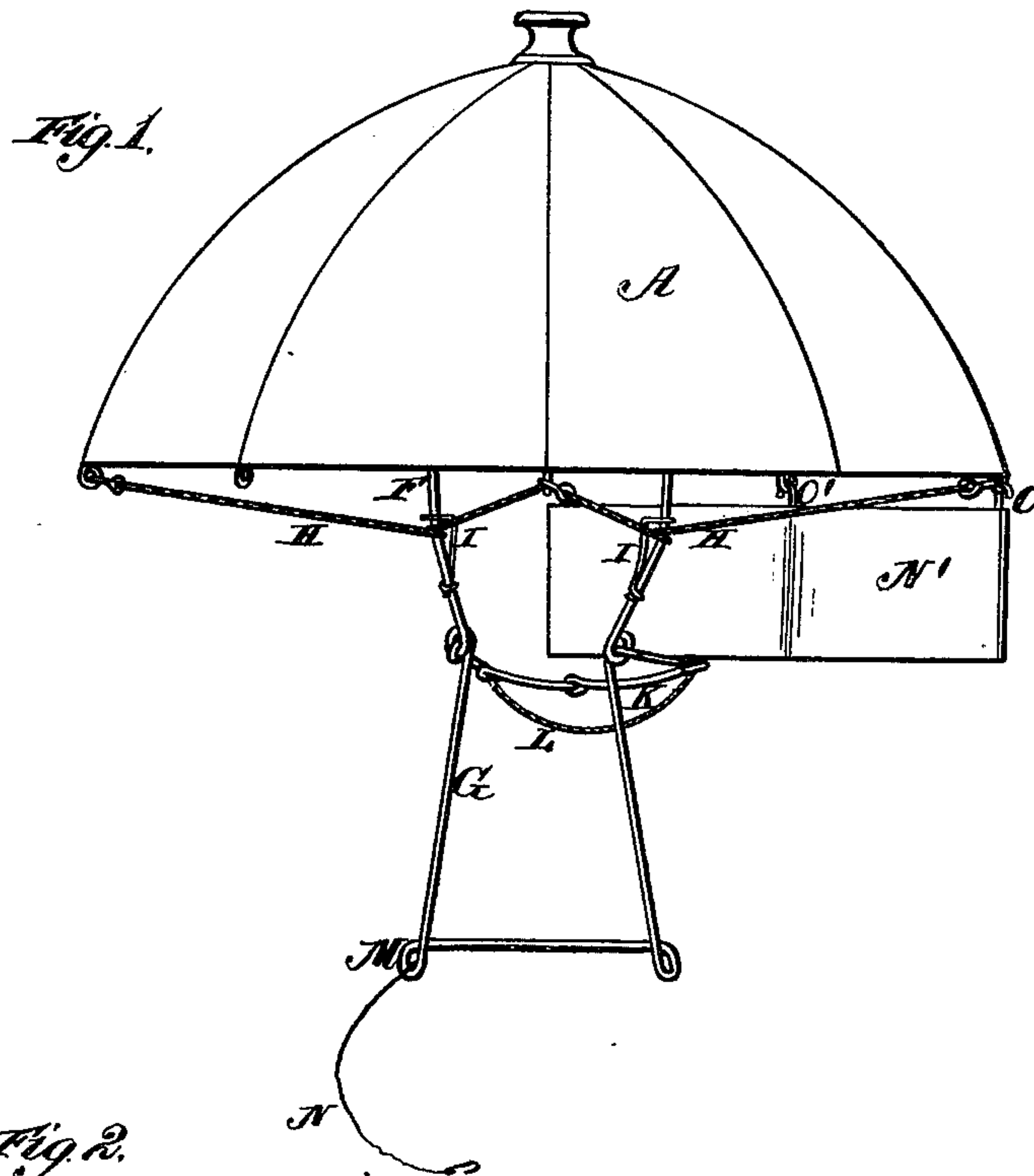


R. RAY.  
Laborer's Sun Shade.

No. 229,465.

Patented June 29, 1880.



WITNESSES  
*Robert G. Smith*  
Chas. G. Page.

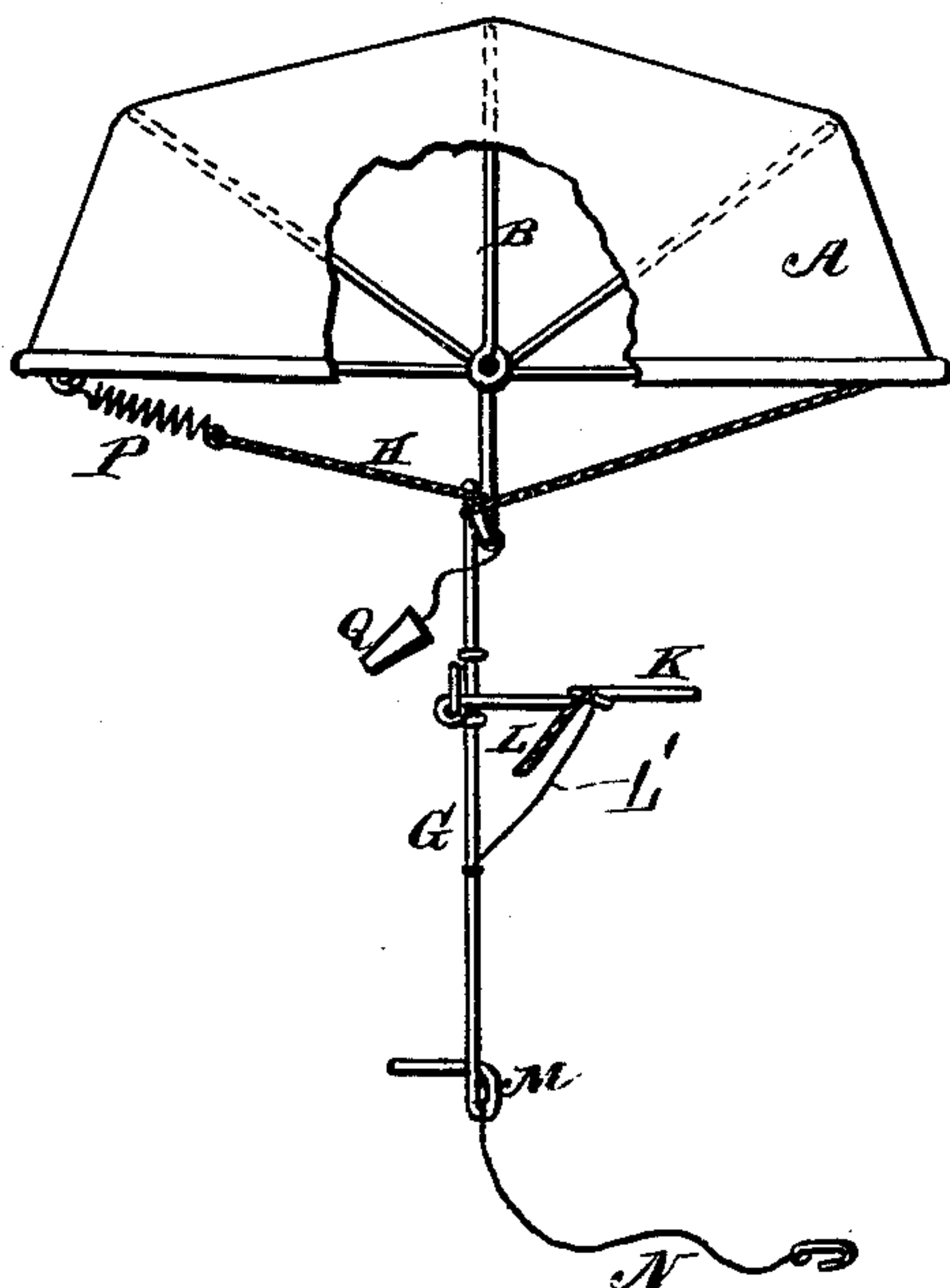
INVENTOR  
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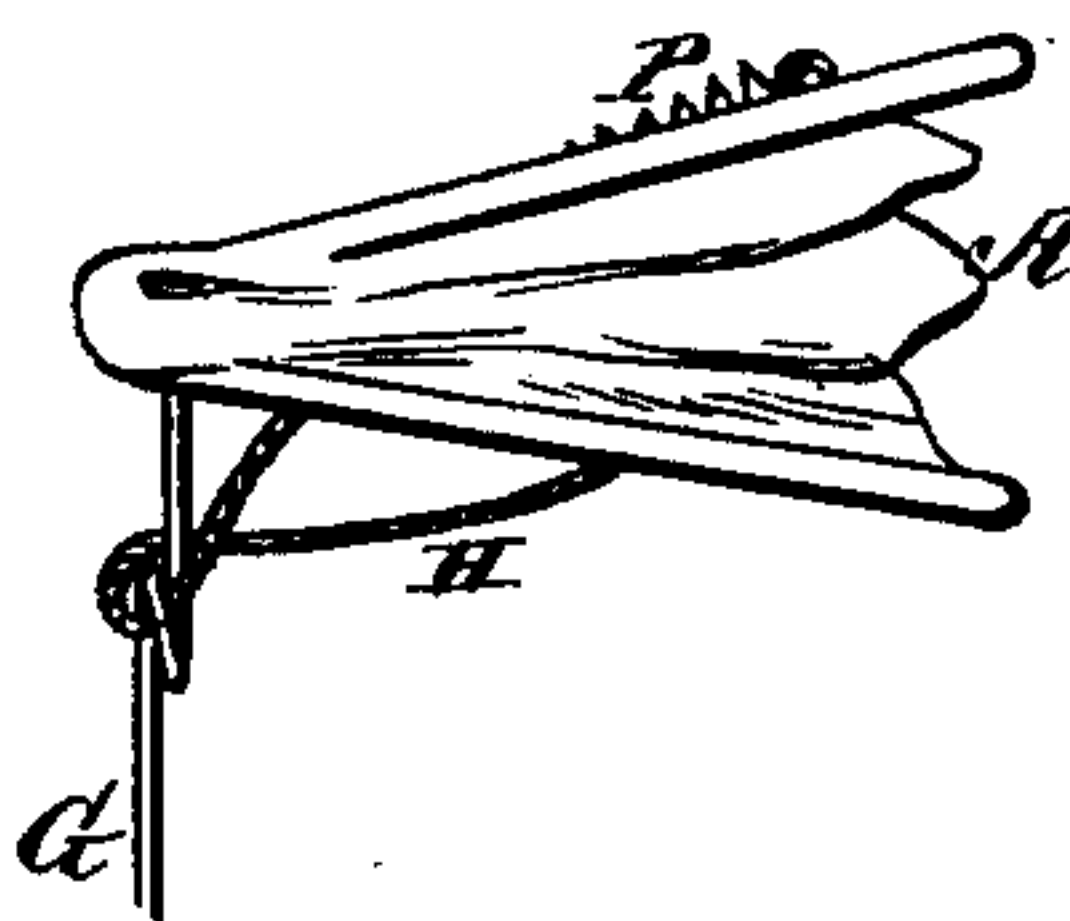
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*Fig. 4.*



*Fig. 5.*



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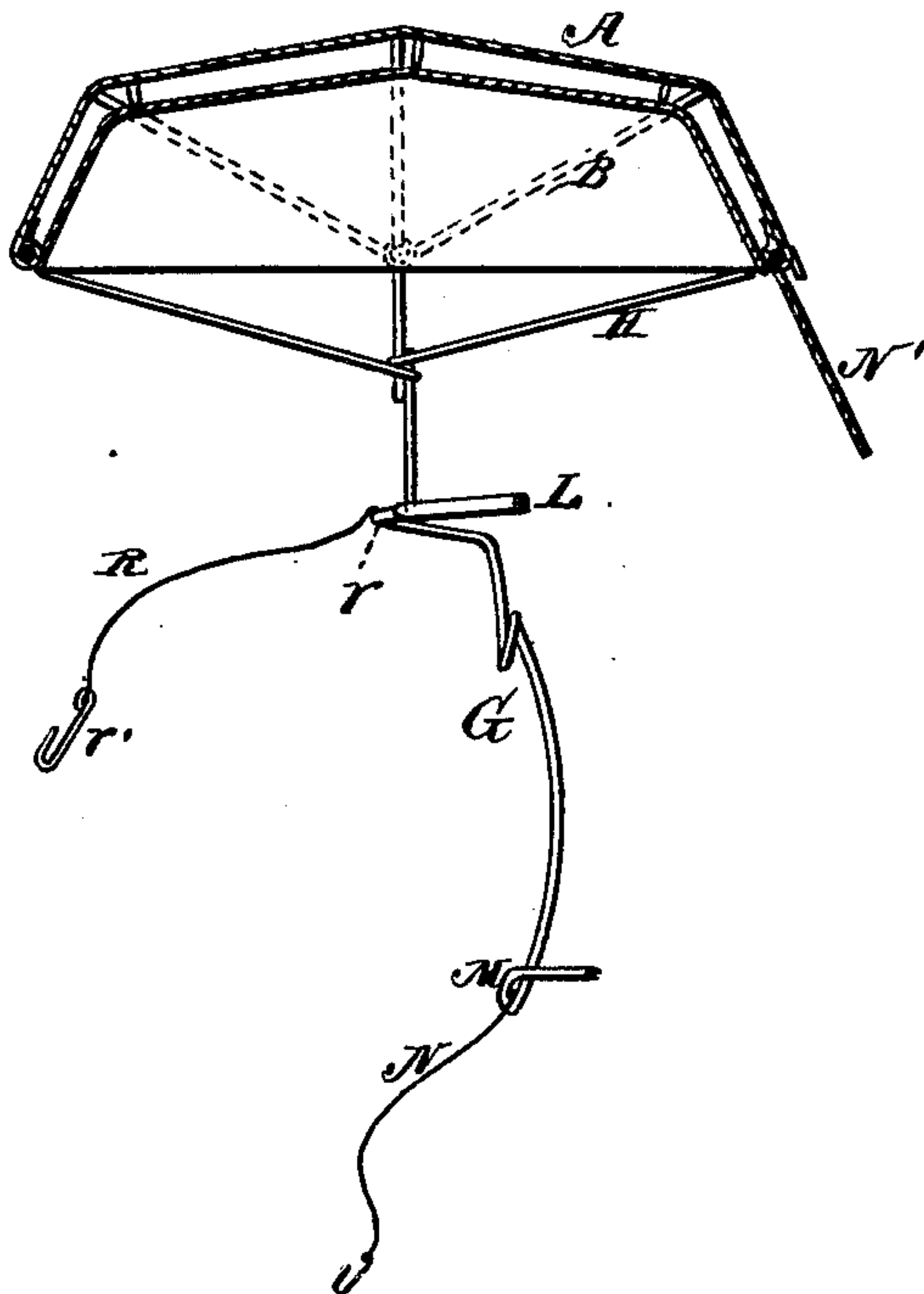
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Fig. 6.



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Silmore Smith & Co.,  
Attorneys.



# UNITED STATES PATENT OFFICE.

RICHARD RAY, OF LAKE CITY, FLORIDA.

## LABORER'S SUN-SHADE.

SPECIFICATION forming part of Letters Patent No. 229,465, dated June 29, 1880.

Application filed October 25, 1879.

*To all whom it may concern:*

Be it known that I, RICHARD RAY, of Lake City, in the county of Union and State of Florida, have invented certain new and useful Improvements in Laborers' Sun-Shades; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side of my sun-shade in a manner to be applied. Fig. 2 is a detail view of the frame. Fig. 3 is a sectional view of the frame; and Figs. 4, 5, and 6 are views in modified forms.

My invention consists in an improved laborer's sun-shade for personal wear, which is designed to be attached to and supported by the body of the user in such manner as to admit of the free use of his arms while working, the said shade being adjustable at various angles, so as to effectively shade the person from the sun.

For a clear understanding of the nature of my invention, I will proceed to describe the same with reference to the accompanying drawings.

Fig. 1 illustrates the shade A, constructed upon the principle of a parasol or umbrella, of which B are the ribs, C the hinged brace-rods, and D the sleeve, from which the hinged brace-rods diverge outwardly to the ribs.

Instead of the usual handle-stick and spring-catch, I prefer employing a short shank, E, upon which the sleeve D fits when the shade is expanded. When the sleeve is passed upon the shank above the plane in which the hinge-joints of the outer ends of braces C are located the shade will be held securely in an expanded state, by reason of the fact that the brace-rods C crowd the sleeve D upward and hold it upon the shank E. No catch or fastening is therefore needed.

F are the supporting-rods for the shade A, and G the main body-frame, which is preferably formed by a continuation of these rods. The rods are hinged at their upper ends to the shade-frame, and as a means of adjusting the shade at the desired angle I employ the brace-cords H H, which pass around the sup-

porting-rods and connect at their ends with the ribs of the shade, substantially as shown.

By such an arrangement the shade can be tilted to the required angle, where it will be held by the friction of the cords which pass around the supporting-rods.

I refers to guards upon the supporting-rods at the points where the cords pass around the same, these guards being adapted to maintain the cords in proper position upon the rods. These guards I are of especial use when the shade is worn during the prevalence of high winds, as by drawing the cords H down between the rods F and the guards I the cords will be tightened and bound between the guards and rods so effectually as to maintain the shade in the position to which it may have been adjusted, whereas without the guards the cords would slip upon the rods and the shade be blown out of position by a high wind.

K designates a hinged wire having a semi-circular conformation, and L a cord or band, which is secured at its ends to eyes formed by the wire K. Cords L' (see Fig. 4) are secured to eyes in the hinged wire K, to hold it in place upon the person of the wearer, which is accomplished by connecting the free ends of the cords with the supporting-rods. These cords may be taken up or let out to raise and lower the shade, as may be desired. This circular or bowed shape wire K is designed to be passed back of the neck of the user, so as to rest upon his shoulders, while the cord may be adjusted so as to hold the frame against his breast.

The wire K is hinged so that it may be properly adjusted to the person of the wearer, and when not in use may be folded down upon the body-frame, which is advantageous in packing and shipping the shade.

At the lower corners of the frame G are eyes M, to one of which is secured a cord or strap, N, which is to be passed around the body, and then secured to the remaining eye by a hook, knot, buckle, or othersuitable fastening device.

N' designates a supplemental shade, which is especially designed to afford increased protection for the back of the workman, although it may be adjusted so as to constitute a side or front protecting shade. It is connected with eyes upon the outer ends of the ribs B by means



of hooks O O and a hook brace-rod, O'. This supplemental shade, however, is not broadly claimed in this application, as it forms the subject of another application previously filed by me. I therefore claim only the improvements on the same in this application.

The circled rib-pattern shown in Figs. 4 and 5, which has the springs P connected with the brace-cords H, is adapted to be set on the body of the user in like manner to the umbrella-shade just described, the frame G being placed in front, the hinged bow-wire K upon the shoulders, and the cord L or strap back of the neck of the wearer. This form of shade or canopy has its bowed ribs B hinged at the sides, so that it may be raised or lowered in front or back, or folded back of the user's neck.

To stay the canopy from shifting in case of winds, I provide a cork or peg, Q, connected to the supporting-rods by a cord or chain, and by forcing such cork into one of the eyes, through which a brace-cord, H, passes, the cord is prevented from moving in the said eye.

The remaining form of shade (shown in Fig. 6) is similar in construction to the shade last described, with, however, the following exceptions: The body-frame G is designed to fit upon the back of the workman, and is maintained in place by the waist string or strap N. The two cords R, which are secured to eyes *r* upon the frame, are passed down under each arm of the user and connected by hooks *r'* with eyes M at the lower corners of the frame. Instead of hooks, buckles or adjustable fastening devices may be employed, so as to adapt the same to the proportions of the person using the shade. The tape L, which, if desired, may be made of elastic material, passes back of the neck, so as to prevent the frame from going too far forward, and said tape may also be adjusted either by tying or buckling it, as desired. This form of shade is best adapted for those who work in a stooping position. The hanging shade N', at the back of this canopy, serves to afford additional protection to the back of the user, and, being hinged to the canopy-frame, it may be folded upon the same when not needed.

By using my improved shade the laborer

will be protected from the hot sun, and at the same time his hands and arms will be entirely free for working. It will prevent sunstroke, and enable him to work without a hat upon his head, thereby adding greatly to his comfort and safety.

What I claim, and desire to secure by Letters Patent, is—

1. In a laborer's sun-shade for personal wear, the combination, with the folding canopy A, of a supplemental or auxiliary shade, N', provided with hooks O O and a hooked brace-rod, O', substantially as and for the purposes set forth.

2. In connection with the hinged shade or canopy, supporting-frame, and brace-cords H, the cork or peg Q, suspended from one of the supporting-rods and adapted to an eye through which the brace-cord passes, substantially as set forth.

3. The shade or canopy, supporting-rods, and body-frame, with their fastening attachments, in combination with the brace-cords having springs at their ends, substantially as specified.

4. In a laborer's sun-shade for personal wear, the semicircular wire K, hinged to the supporting-rods and adapted to fit the back of the neck of the wearer when in use, and to be folded down upon the supporting-rods for packing for transportation, as set forth.

5. In a laborer's sun-shade for personal wear, the combination, with the supporting-rods and brace-cords, of the guards I, substantially as and for the purposes set forth.

6. In a laborer's sun-shade for personal wear, the combination of the semicircular wire K, hinged to the supporting-rods, with the cords L', constructed to operate as and for the purposes set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

RICHARD RAY.

Witnesses:

D. J. FITCH,  
JOHN VINZANT, Jr.