

No. 720,709.

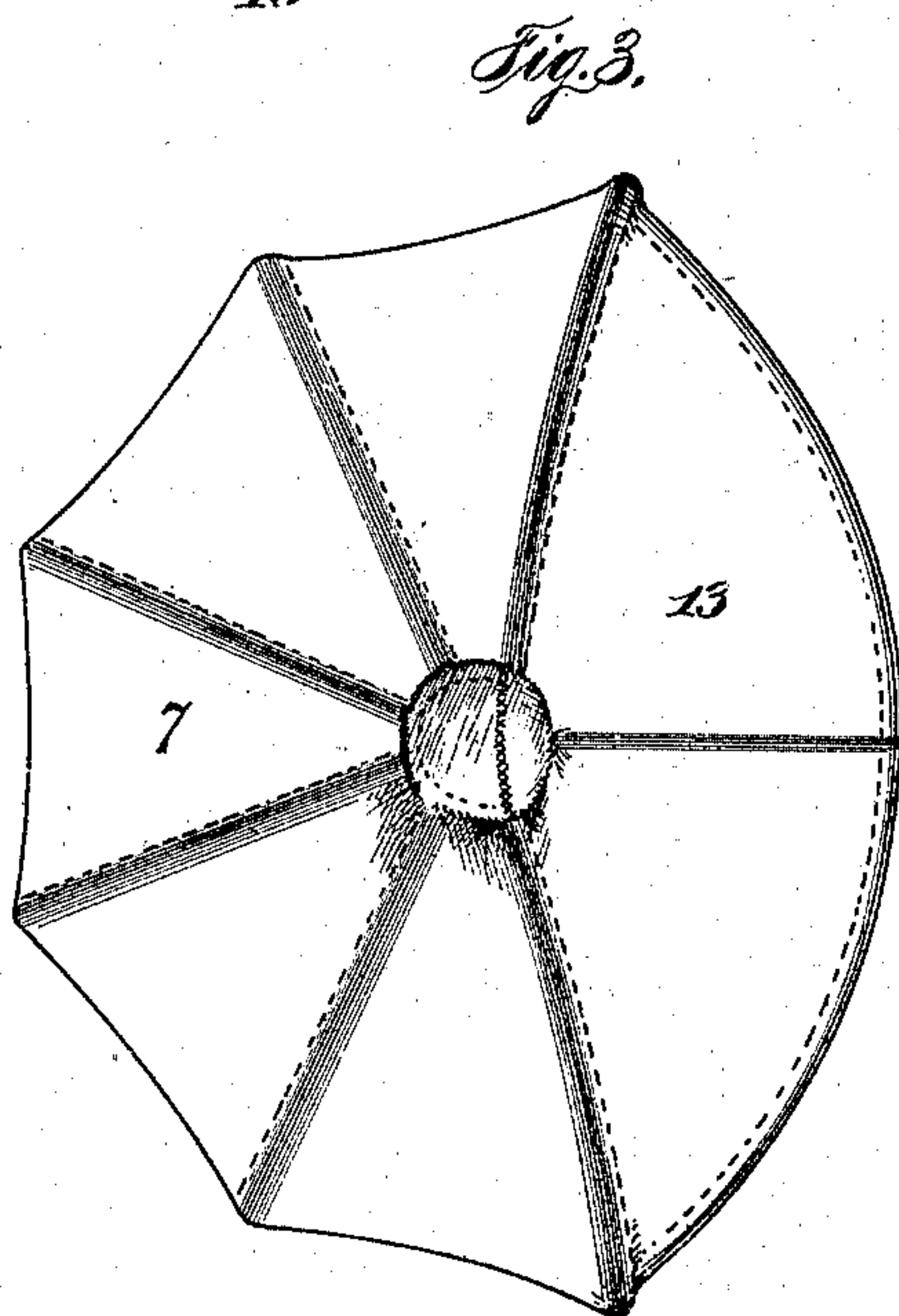
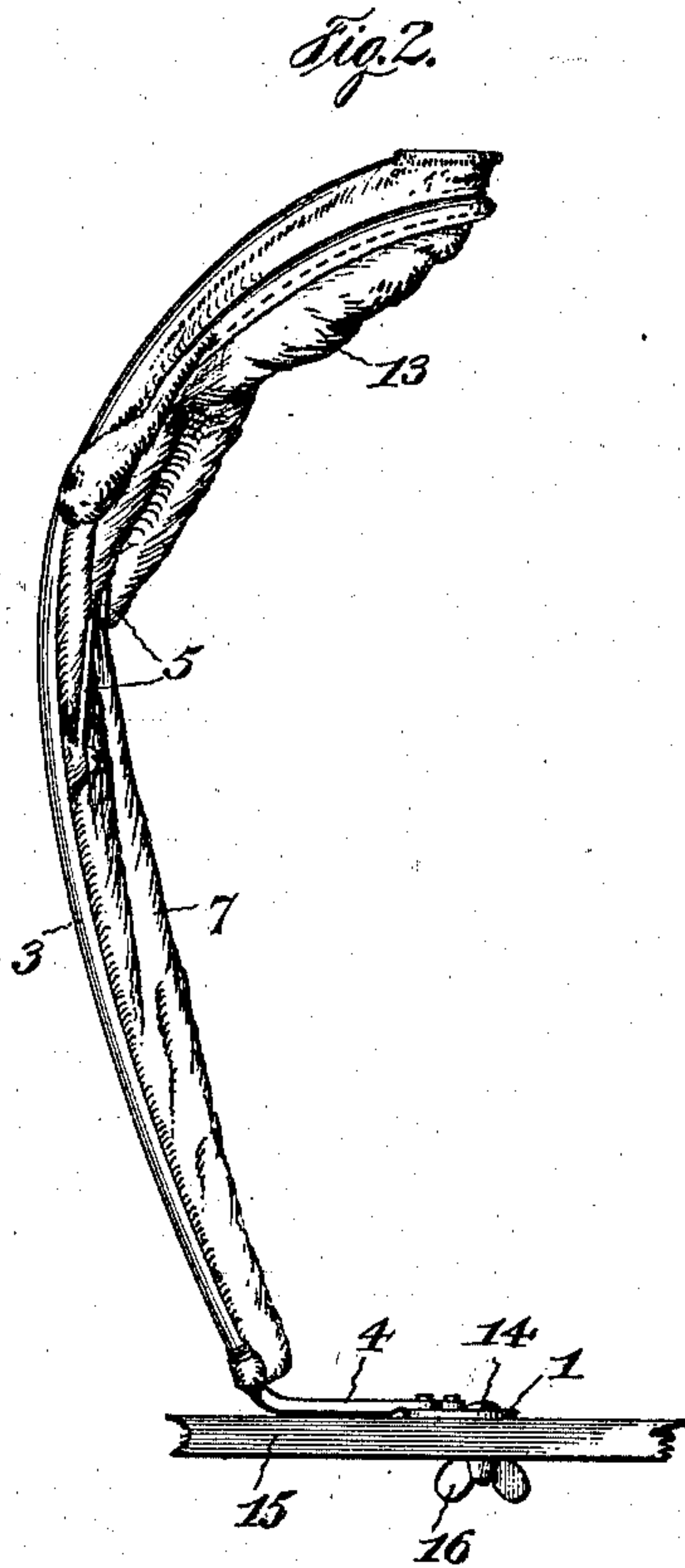
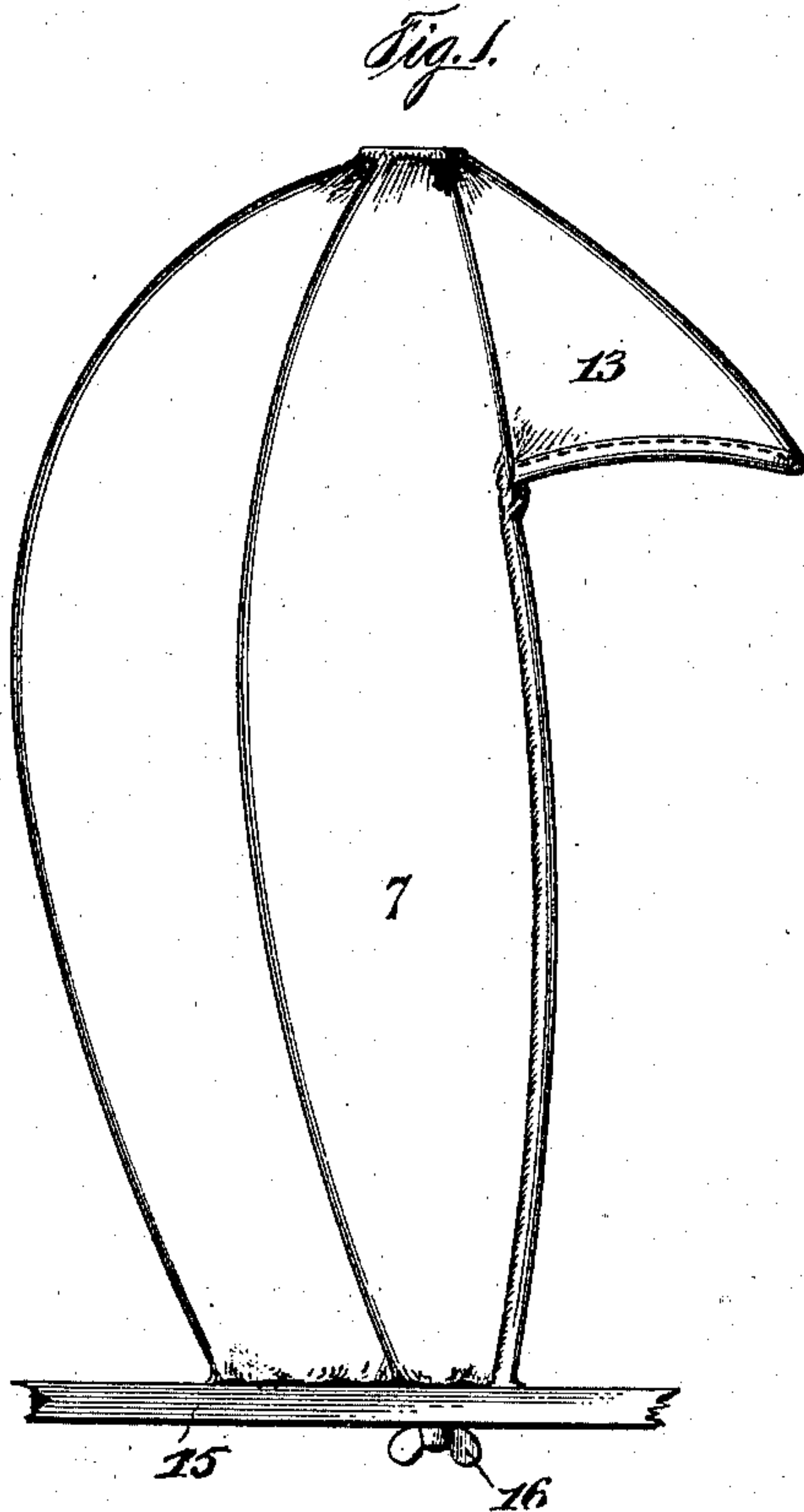
PATENTED FEB. 17, 1903.

W. F. LAWRENZ.  
PORTABLE FOLDING SHADE.

APPLICATION FILED JULY 3, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



Witnesses:  
*Attest.*  
*Ed. H. H. H.*

Inventor.  
*William F. Lawrence*  
by *Wm. F. H. H.* Atty.

No. 720,709.

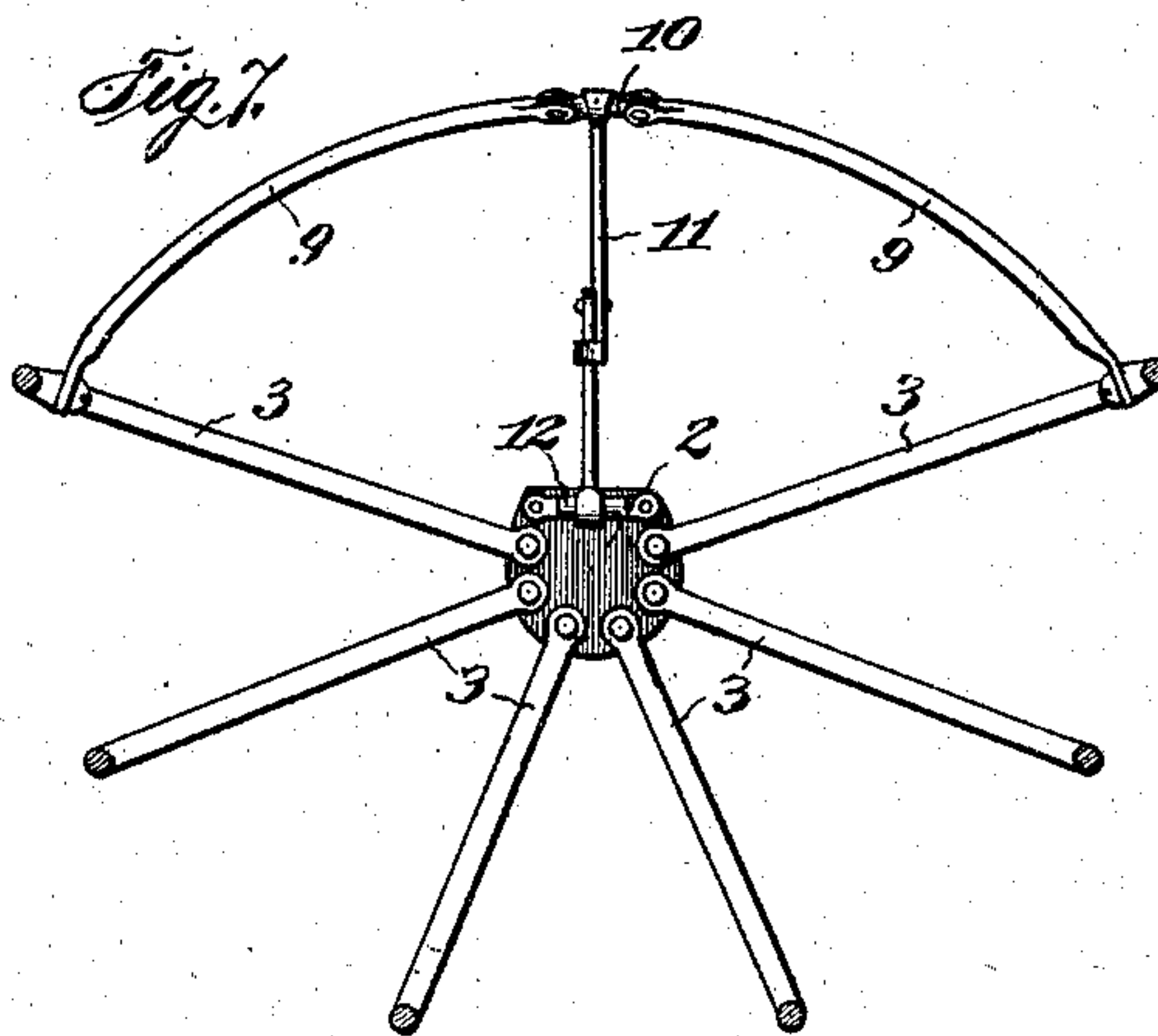
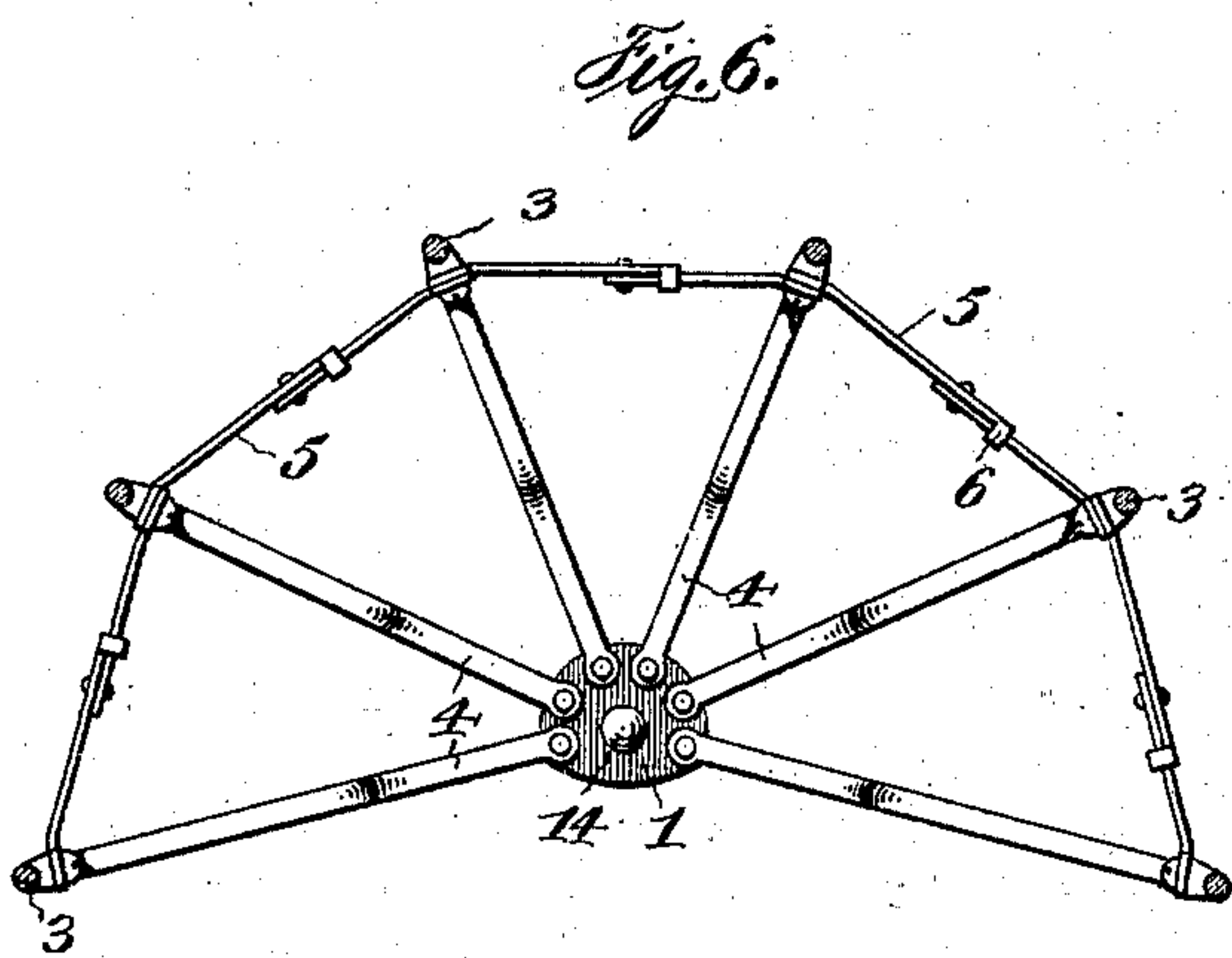
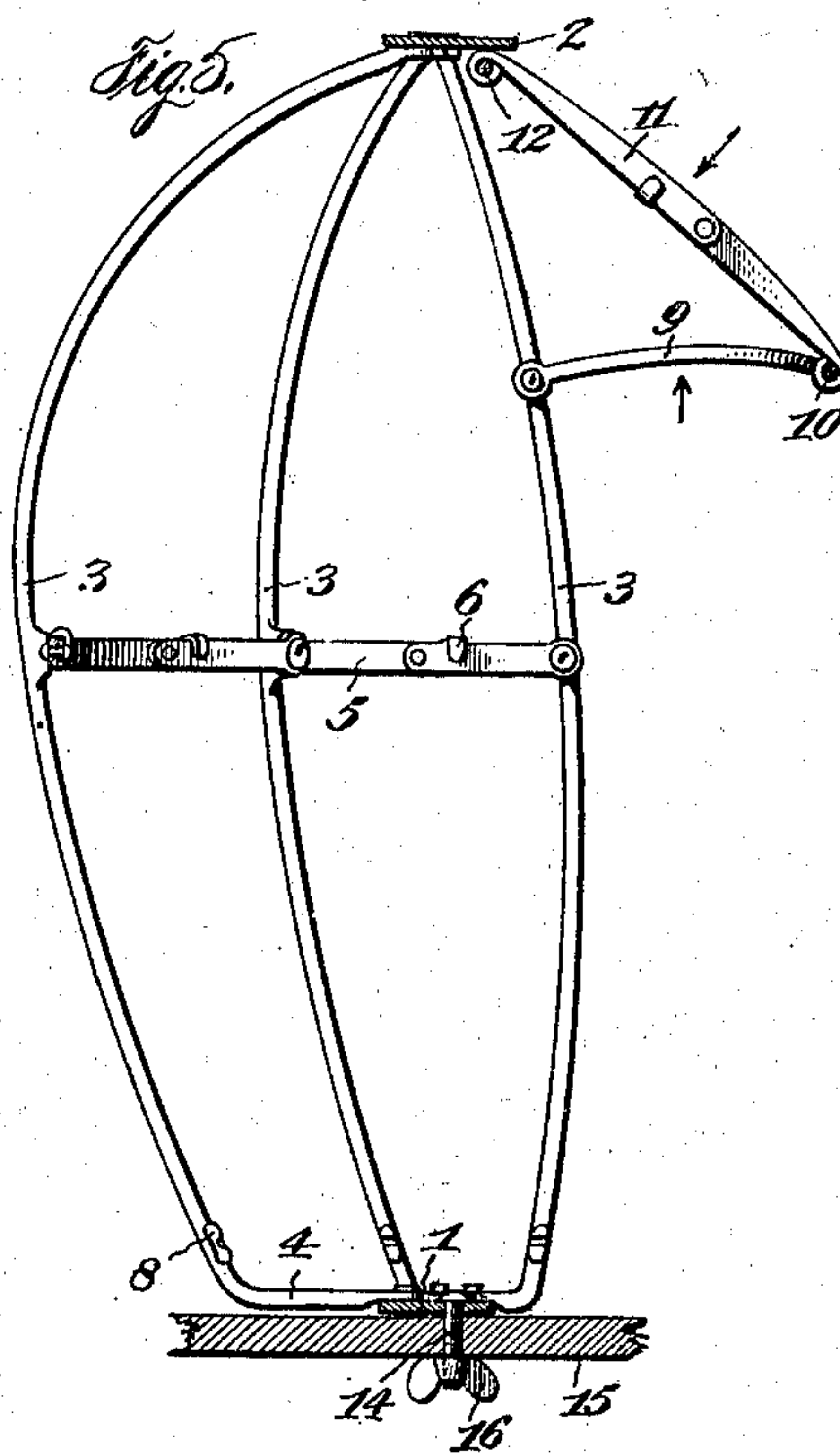
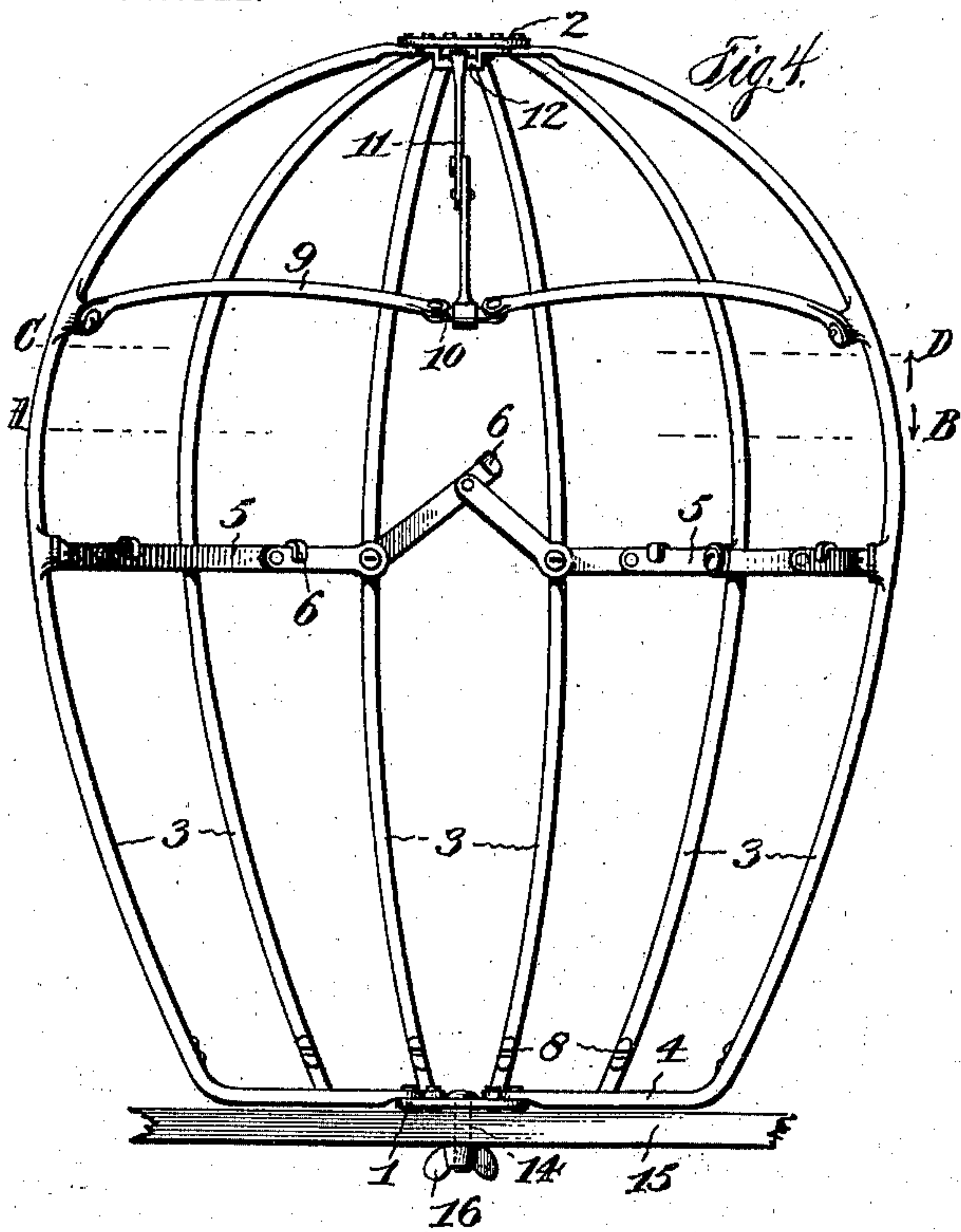
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NO MODEL.

2 SHEETS—SHEET 2.



Witnesses:

*W. Ober*  
*E. H. Finckel*

Inventor:

*William F. Lawrence*  
by *W. H. Finckel*  
Atty.



# UNITED STATES PATENT OFFICE.

WILLIAM F. LAWRENZ, OF HANCOCK, MICHIGAN.

## PORTABLE FOLDING SHADE.

SPECIFICATION forming part of Letters Patent No. 720,709, dated February 17, 1903.

Application filed July 3, 1902. Serial No. 114,276. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM F. LAWRENZ, a citizen of the United States, residing at Hancock, in the county of Houghton and State of Michigan, have invented a certain new and useful Improvement in Portable Folding Shades, of which the following is a full, clear, and exact description.

The object of this invention is to provide a portable folding shade, screen, or guard for protecting a person from the weather and designed for use in any exposed location, but especially on the seats of wagons and other vehicles.

In carrying out my invention I provide a covered foldable frame of elliptical outline and having a flattened base, so as to cover the back, head, and sides of a person and having a peak or vizor independently foldable, the whole capable of erection upon a suitable support and especially of attachment in any desired position upon the seat of a wagon or other vehicle and adjustable to shield the occupant thereof from the elements.

In the accompanying drawings, illustrating my invention, in the several figures of which like parts are similarly designated, Figure 1 is a side elevation showing the shade distended for use. Fig. 2 is a side elevation showing the shade folded. Fig. 3 is a top plan view of the distended shade. Fig. 4 is a front elevation of the shade-frame, the central toggle-joint collapsed. Fig. 5 is a central vertical section of the frame. Fig. 6 is a horizontal section taken in the plane of line A B, Fig. 4, and looking down, all of the toggle-joints being spread or distended. Fig. 7 is a horizontal section taken in the plane of line C D, Fig. 4, looking up.

The frame comprises a base-plate 1 and a top plate 2, connected by ribs 3, which may be metal rods or tubes bowed elliptically and having flattened ends 4 to form a base and jointed movably to the plates 1 and 2. These ribs are connected by toggle-joints 5, the middle joint in Fig. 4 being raised or collapsed to show the construction more in detail. Besides being jointed to the ribs and to each other each toggle-joint has one member prolonged beyond the intermediate joint and provided with an offset 6 to engage the companion limb of the toggle-joint, and these toggle-

joints serve as stretchers to spread out the frame and hold it and its cover 7 distended. The toggle-joints may be and are herein shown as secured to the ribs or to lumps on the ribs by screws; but any other form of connection is permissible.

The cover 7 may be of canvas or other material suitable to shield the person from the elements. This cover need extend only to the bends at the lower portions of the ribs, and said ribs may have the lumps or cleats or eyes 8 to receive the cover-fastenings.

Above the toggle-joints is the peak or vizor, composed of bowed ribs 9, double-jointed at 10 and jointed to the outer ribs 3. Between the double joint 10 and the plate 2 is a toggle-joint 11, like the toggle-joints 5, the said toggle-joint 11 being connected to the plate 2 by a loop 12. The peak or vizor has a cover 13 of material corresponding to cover 7. Obviously the peak or vizor may be distended or folded up at pleasure and independently of the remainder of the shade, and, moreover, said peak or vizor may be omitted from the shade altogether without departing from the invention.

The bottom plate is provided with a bolt 14, which may be passed through a hole in any suitable support 15, such as the seat of a vehicle, and engaged by a nut 16, whereby the shade may be securely adjusted and clamped in any desired position upon the support to protect the occupant from the elements.

As indicated by Figs. 4, 5, 6, and 7, the shade is designed to be used with the frame distended and held in such distended position by means of the stretchers, and with the vizor up or down, as may be required. A person may thus be protected from the elements on his back, at his sides, and overhead. When the shade is no longer required for use, it may be folded, as indicated in Fig. 2, and the shade allowed to remain thus folded upon the seat, or it may be detached from the seat and stowed away in a compact form within the vehicle.

The main frame, composed of the plates 1 and 2, ribs 3, and stretchers, may be folded by opening the toggles, as indicated by the middle toggle in Fig. 4, and the peak may be folded by opening its stretcher by pressure thereupon in the direction of the adjacent



arrow, Fig. 5, whereby the double-jointed ribs will be raised in the direction of the arrow adjacent to them in Fig. 5, so that said peak may be folded up against the main frame, as indicated in Fig. 2. The reverse motions upon the stretchers will serve to open the main frame and the peak.

I have thus provided a very simple, strong, and efficient medium for the protection of drivers of open vehicles and for other purposes, and it will be observed that by simply loosening the fastening medium the shade may be adjusted readily to any position which will most effectively shield the user from the elements.

The invention is susceptible of various alterations without departure from its principle and scope; but the illustration herein given is of practical utility and shows the best mode in which I have at this time contemplated applying the principle of the invention.

What I claim is—

1. A portable folding shade, comprising an elliptical frame having a flat base, and consisting of ribs, top and bottom plates to which they are jointed, and stretchers made as toggle-joints connecting the said ribs, and means applied to said flat base for securing the shade in position.

2. A portable folding shade, comprising an elliptical frame, consisting of ribs, top and

bottom plates to which they are jointed, and stretchers, made as toggle-joints, connecting the said ribs, and an independently-foldable peak or vizor applied to the upper front portion of the frame.

3. A portable folding shade, having a main frame comprising top and bottom plates, bowed ribs jointed to said plates, and stretchers, made as toggle-joints, applied to said ribs, each joint having a stop, and a peak or vizor composed of ribs jointed to the main frame and double-jointed to each other, and a toggle-joint stretcher connecting the said double-jointed ribs to the upper plate and foldable independently of the main frame.

4. A portable folding shade, comprising essentially a main frame composed of ribs, top and bottom plates to which they are jointed, toggle-joint stretchers applied to said ribs, a peak or vizor having a double-jointed rib jointed to the main frame, and a toggle-joint stretcher connecting the double-jointed ribs with the upper plate, and suitable covering material for the main frame and the peak or vizor.

In testimony whereof I have hereunto set my hand this 30th day of June, A. D. 1902.

WILLIAM F. LAWRENZ.

Witnesses:

JEREMIAH T. FINNEGAN,  
WILLIAM C. KAUTH.