

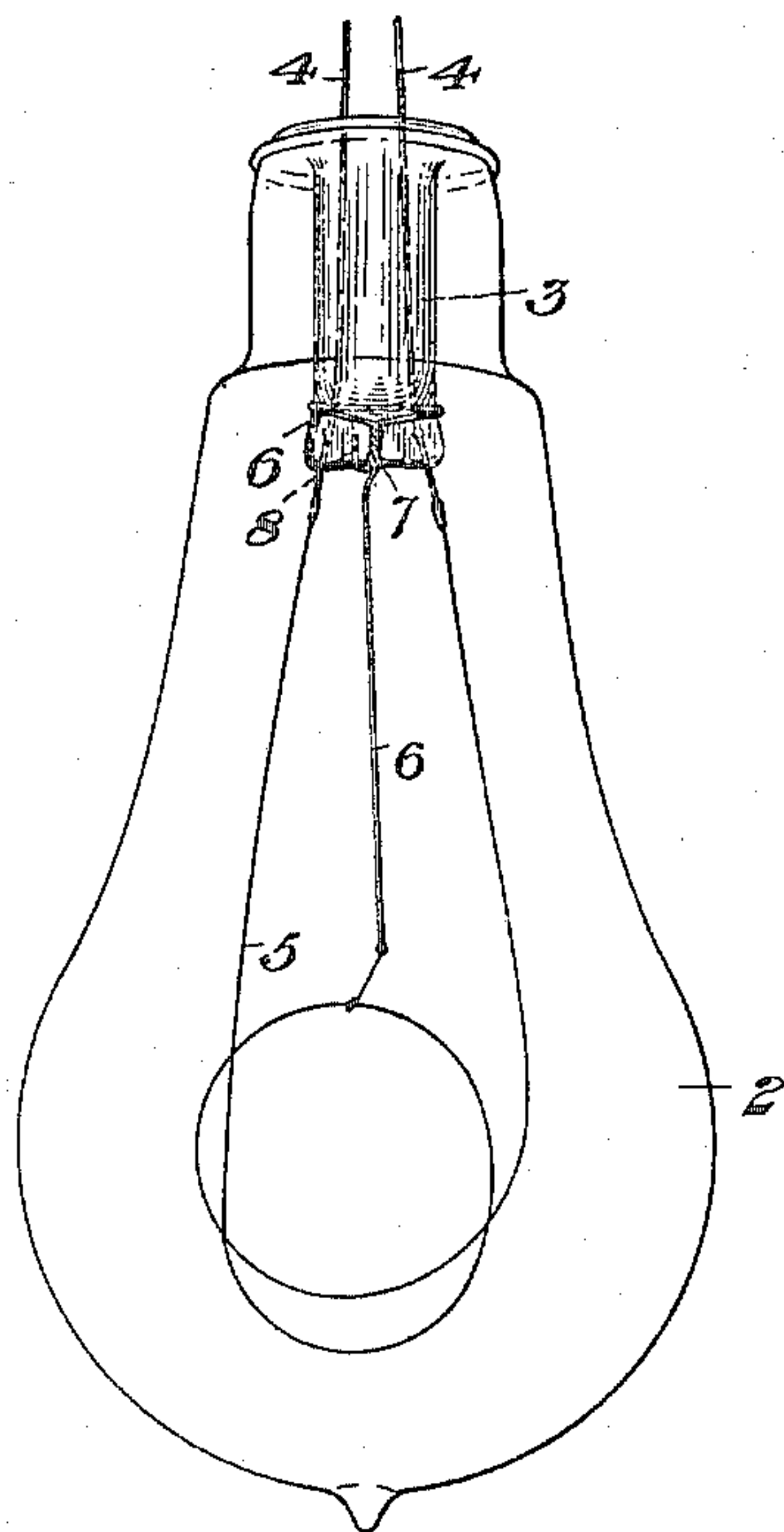
No. 640,465.

Patented Jan. 2, 1900.

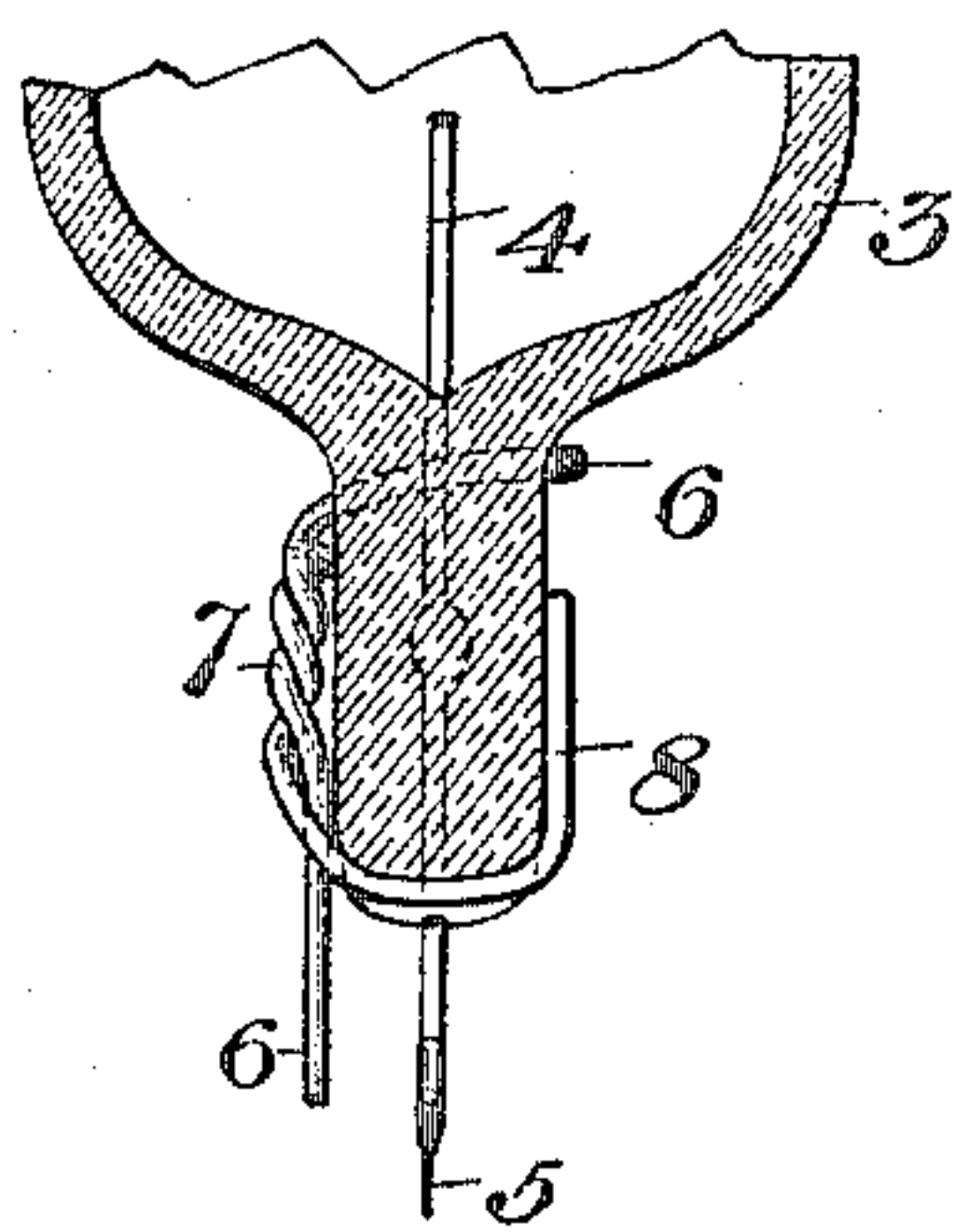
E. W. GILLMER.  
INCANDESCENT LAMP.  
(Application filed Mar. 4, 1898.)

(No Model.)

*Fig. 1.*



*Fig. 2.*



WITNESSES

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INVENTOR

*Elmer W. Gillmer*  
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# UNITED STATES PATENT OFFICE.

ELMER W. GILLMER, OF WARREN, OHIO.

## INCANDESCENT LAMP.

SPECIFICATION forming part of Letters Patent No. 640,465, dated January 2, 1900.

Application filed March 4, 1898. Serial No. 672,475. (No model.)

*To all whom it may concern:*

Be it known that I, ELMER W. GILLMER, of Warren, in the county of Trumbull and State of Ohio, have invented a new and useful Improvement in Incandescent Lamps, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

10 Figure 1 is a side elevation of an incandescent electric lamp provided with my improved filament-anchor, and Fig. 2 is an enlarged cross-section of the glass stem with the lower end of the anchor twisted about it.

15 My invention relates to the anchors employed for holding the filaments of incandescent lamps in position and is designed to provide an improved means for securing these anchors in place. Heretofore the wires forming the anchors were sealed at their lower ends in the glass of the stem, and this sealing operation was a source of considerable delay and expense in the manufacture of the lamp.

25 My invention does away with the sealing of the wire anchor; and it consists in bending the lower end of the wire around the glass stem, twisting the two parts of the wire about each other, and then bending one end down over the side of the glass stem, so as to form a brace for the anchor.

30 In the drawings, 2 represents an incandescent-lamp bulb containing in its base portion the glass stem 3. Sealed through this stem are the lead-in wires 4 4, to the inner ends of which are joined the ends of the filament 5. This filament may be of any desired length

or shape, but is preferably provided with intermediate coils or loops, as indicated in Fig. 1.

6 is the anchor, which consists of a strip of wire, the upper end of which is secured either directly to the coil of the filament or provided with an intermediate strip of platinum wire secured to the filament and to the wire anchor. The lower end of this anchor-wire is bent around the glass stem a short distance below its top and then the two parts are twisted together, as shown at 7, the free end 8 of the wire being then turned or bent so as to be hooked over the top of the stem and extend downwardly on the opposite side.

The advantages of my invention will be apparent to those skilled in the art, since a simple and effective means for securing the anchor is provided and which does away with the necessity for sealing the anchor in the glass of the stem.

I claim—

In an incandescent lamp, the combination with the glass stem, of a filament-anchor composed of a wire having its lower end looped around the glass stem and the two parts twisted together at one side of the stem, the free end being bent down upon the other side of the stem to form a brace.

In testimony whereof I have hereunto set my hand.

ELMER W. GILLMER.

Witnesses:

T. H. GILLMER,  
WM. WALLACE.