

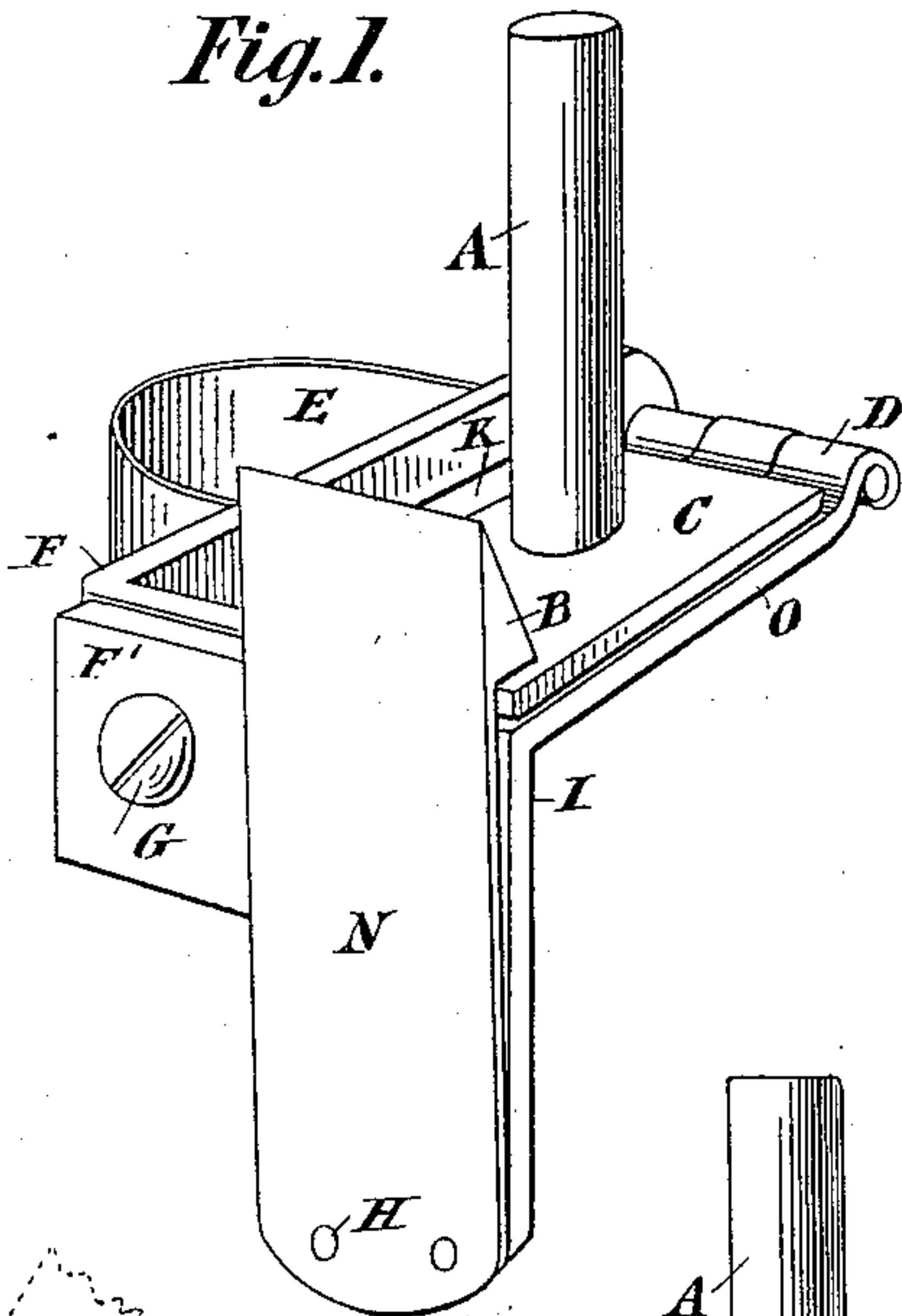
(No Model.)

C. F. & B. W. BIERBAUM.  
SIGN FRAME FOR ARC LAMPS.

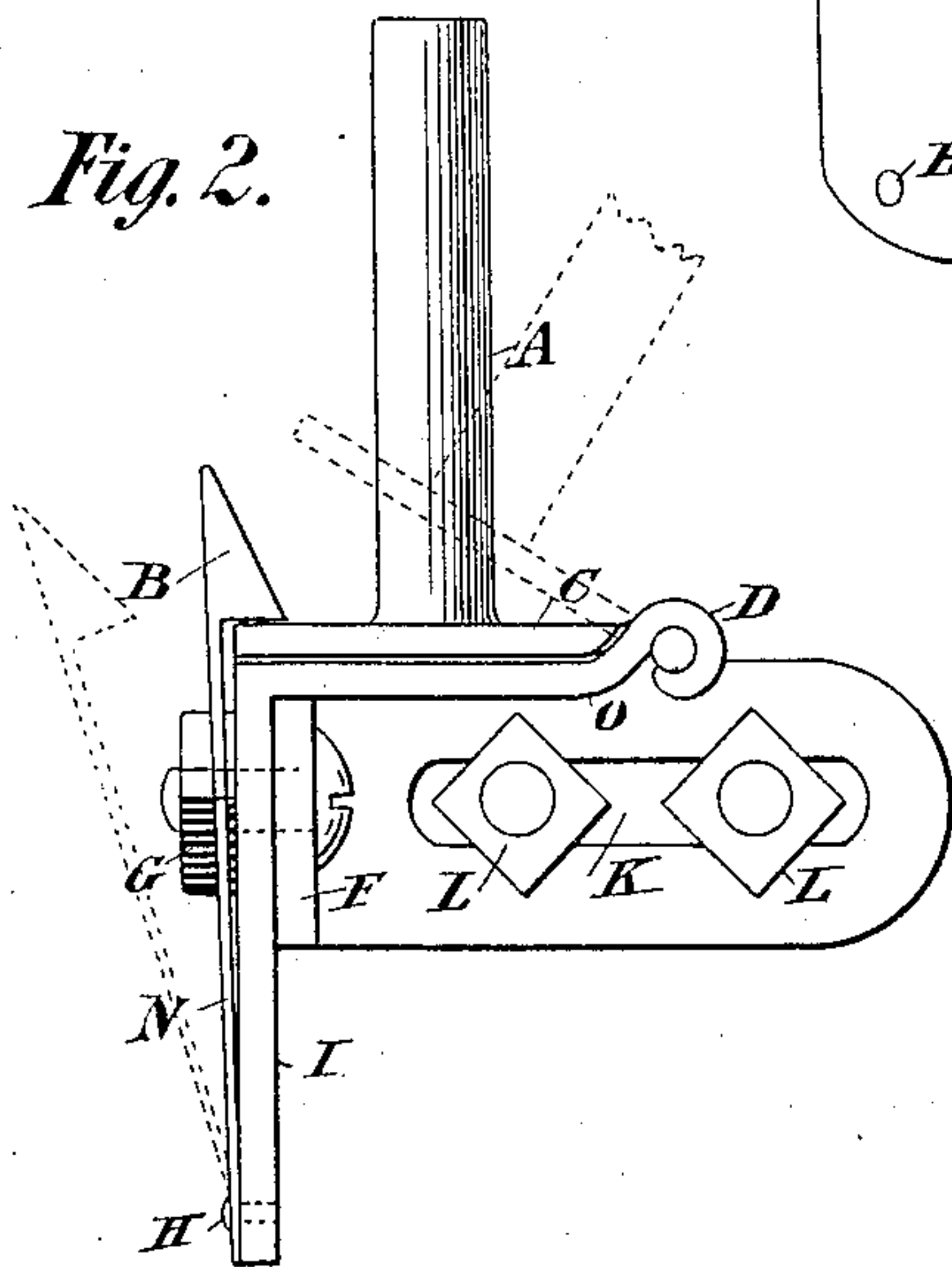
No. 585,079.

Patented June 22, 1897.

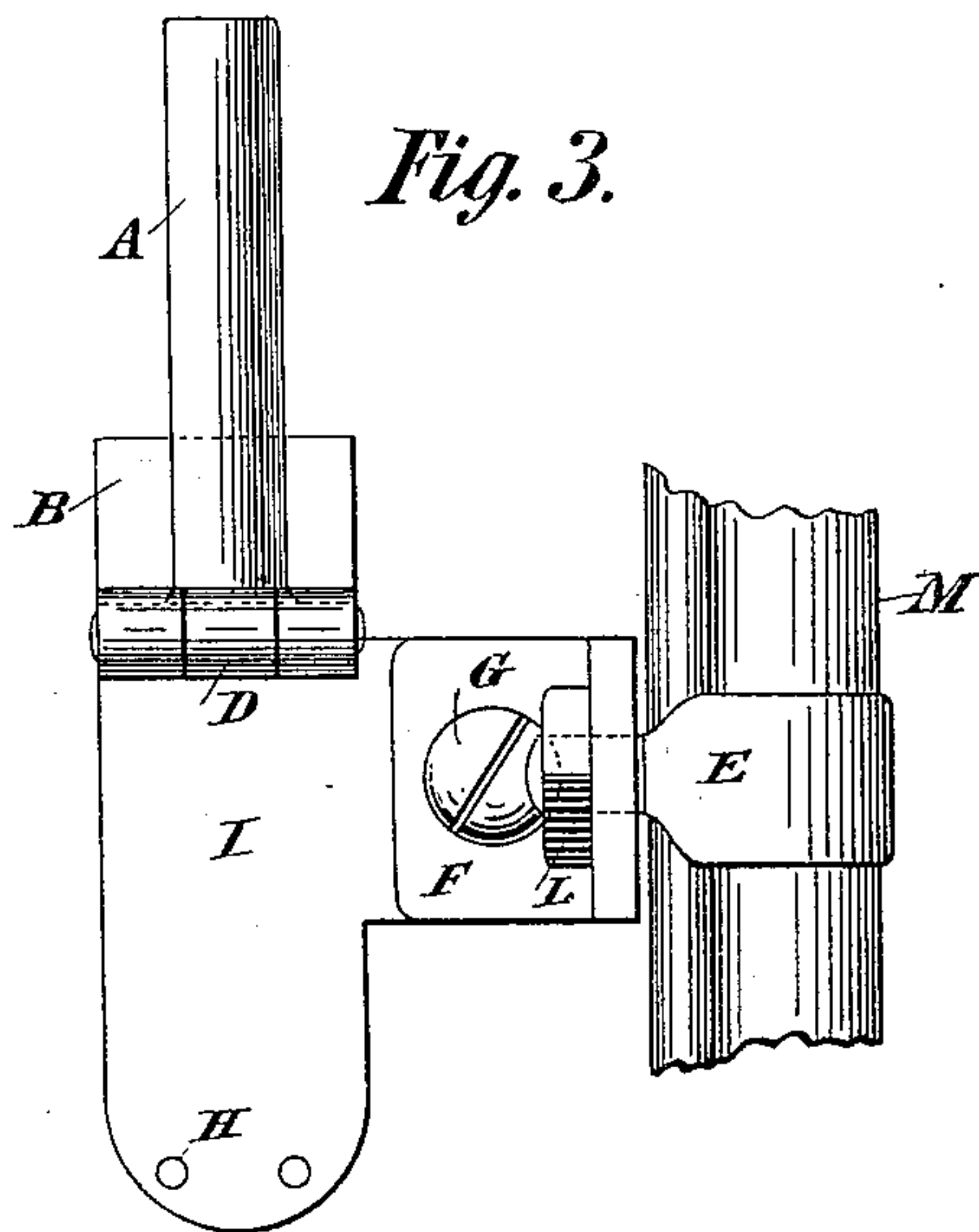
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



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Witnesses  
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# UNITED STATES PATENT OFFICE.

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## SIGN-FRAME FOR ARC-LAMPS.

SPECIFICATION forming part of Letters Patent No. 585,079, dated June 22, 1897.

Application filed March 1, 1897. Serial No. 625,615. (No model.)

*To all whom it may concern:*

Be it known that we, CHARLES F. BIERBAUM and BENJAMIN W. BIERBAUM, citizens of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented a new and useful Improvement in Sign-Frames for Arc-Lamps, of which the following is a specification.

Our invention relates to improvements in sign-frames for arc-lamps, the objects being to secure a means of attaching the frame to the arms of any arc-lamp regardless of the angle of the arms to the perpendicular at the points of attachment; also to attach the frame in such a manner that it can be tilted up on one side when a trimmer desires to reach the lamp or carbons.

We attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of one attachment. Fig. 2 is a side view looking toward the lamp, the dotted lines showing the position of the plate C and rod A when the spring N is withdrawn and plate C tilted. Fig. 3 is a rear view, the lamp being to the right.

Similar letters refer to the same parts in all the figures.

A is a rod on which is to be rigidly fastened in any convenient manner a sign-frame. This rod forms one piece with the plate C, which is hinged to the plate O by an ordinary hinge D. The plate O forms one piece with the plate I, which extends at right angles to it. Riveted to said plate I at its lower end by the rivet H is the spring N, having at its upper end the catch B. Extending out in the same plane with the plate I and rigidly attached but at right angles to it is the plate F', and attached to this latter by the bolt G is the plate F. Said plate F is parallel to plate F' at the point of attachment, but is deflected, preferably, at right angles, as shown in Fig. 1.

E is a clip the ends of which pass through the plate F and are held fast by the nuts L L. In order that said clip may firmly bind arms of various diameters, the ends of said clip should pass not through holes, but through a slot K in the plate F, thus allowing considerable expansion in the loop formed by it.

For greater safety the clip on the arm should be packed or lined with insulating material.

Our contrivance works as follows: Two attachments are fastened to the two arms M, respectively, of an arc-lamp by placing same within the clips E, as in Fig. 3, which are then screwed tightly around said arms by means of the nuts L L. The sign-frame is then fixed to the rod A of each of the attachments. If the rods A, by reason of the inclination of the arms, do not stand erect, the bolt G can be loosened and the plates F' revolved into such a position as to support the rods in a perpendicular position, in which they can be retained by screwing said nut and bolt tight again. Thus the same apparatus can be used on any lamp. In order to tilt the frame, the spring N and catch B are pulled back, releasing the plate C, bearing the rod A, which bears the frame. Said plate, rod, and frame can then be thrown back on the hinges D, as shown by dotted lines in Fig. 2. To close the contrivance and put the frame again in a horizontal position, the plate C is simply pressed against the spring N, which it forces back, and passes under the catch B and is again firmly held.

The contrivance would work if there were only one attachment on one arm of a lamp; but for convenience and to avoid too much strain it is far better to have one on each arm. The intention is to fasten to the rods A a frame consisting of transparent panels. We are aware that the idea of attaching such a frame to the arms of an arc-light is not novel; neither is the idea of tilting the sign in some way novel.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. In sign-frames for arc-lamps, the combination of the rod A, the plate C, hinged to the plate O; the plate I extending out from this plate, and having riveted to it the spring N, bearing a catch B at its upper end; the plates F' and F connected by a bolt, the latter being deflected at right angles from the direction of F', and bearing a clip E which passes through a slot therein K and is held firmly by the nuts L L; the said plate F' being rigidly attached to the plate I, all substantially as described.

2. In sign-frames for arc-lamps, the combi-



nation of the plate C, hinged to the plate O; the plate I extending out from this plate, and having riveted to it the spring N, bearing a catch B at its upper end; the plates F' and F  
5 connected by a bolt, the latter being deflected from the direction of F', and bearing a clip E which passes through a slot K and is held firmly by the nuts L L; the said plate F' be-

ing rigidly attached to the plate I, all substantially as described.

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