

(No Model.)

F. A. STEARNS.

SHADE HOLDER.

No. 351,717.

Patented Oct. 26, 1886.

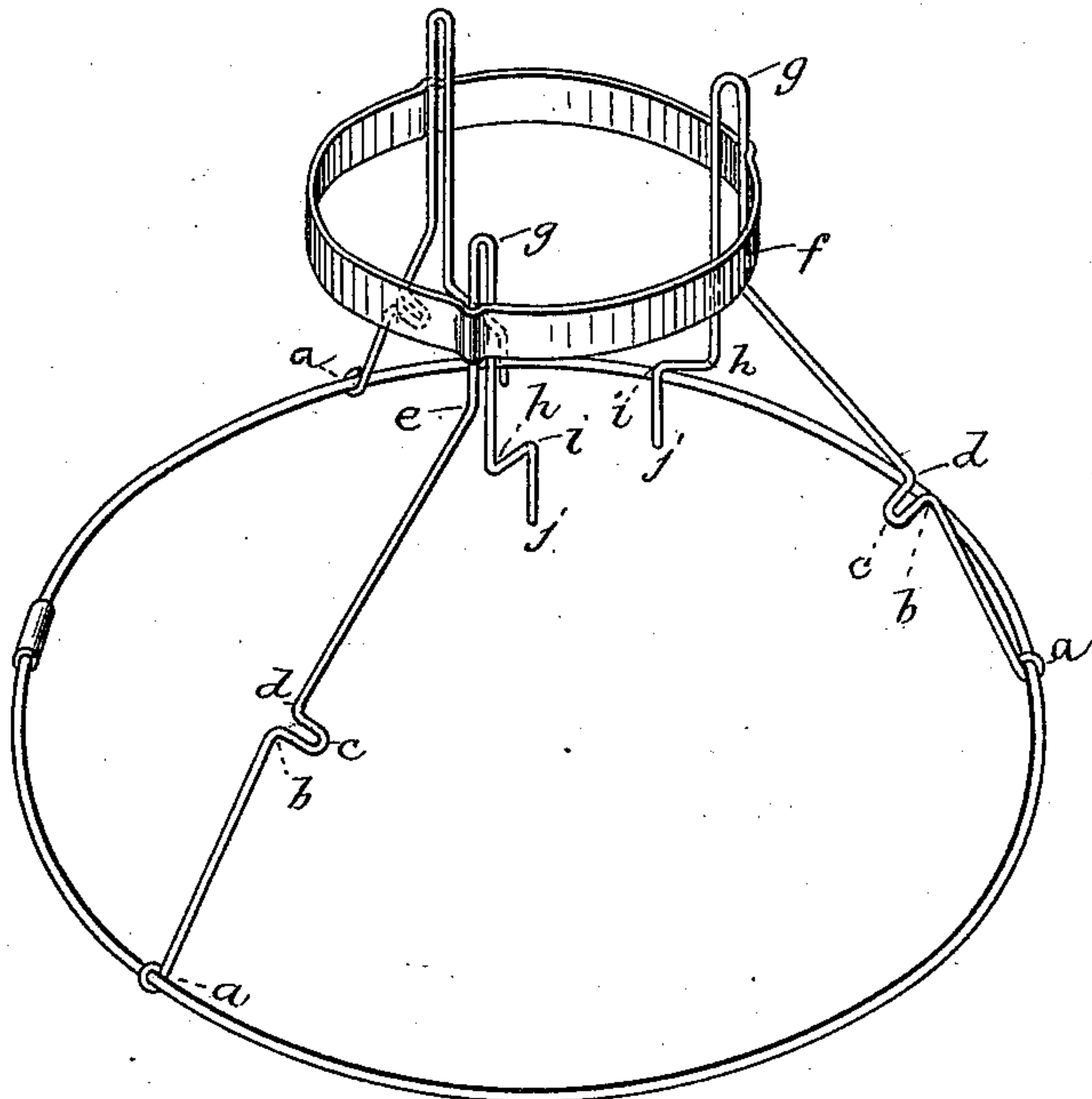


Fig. 1.

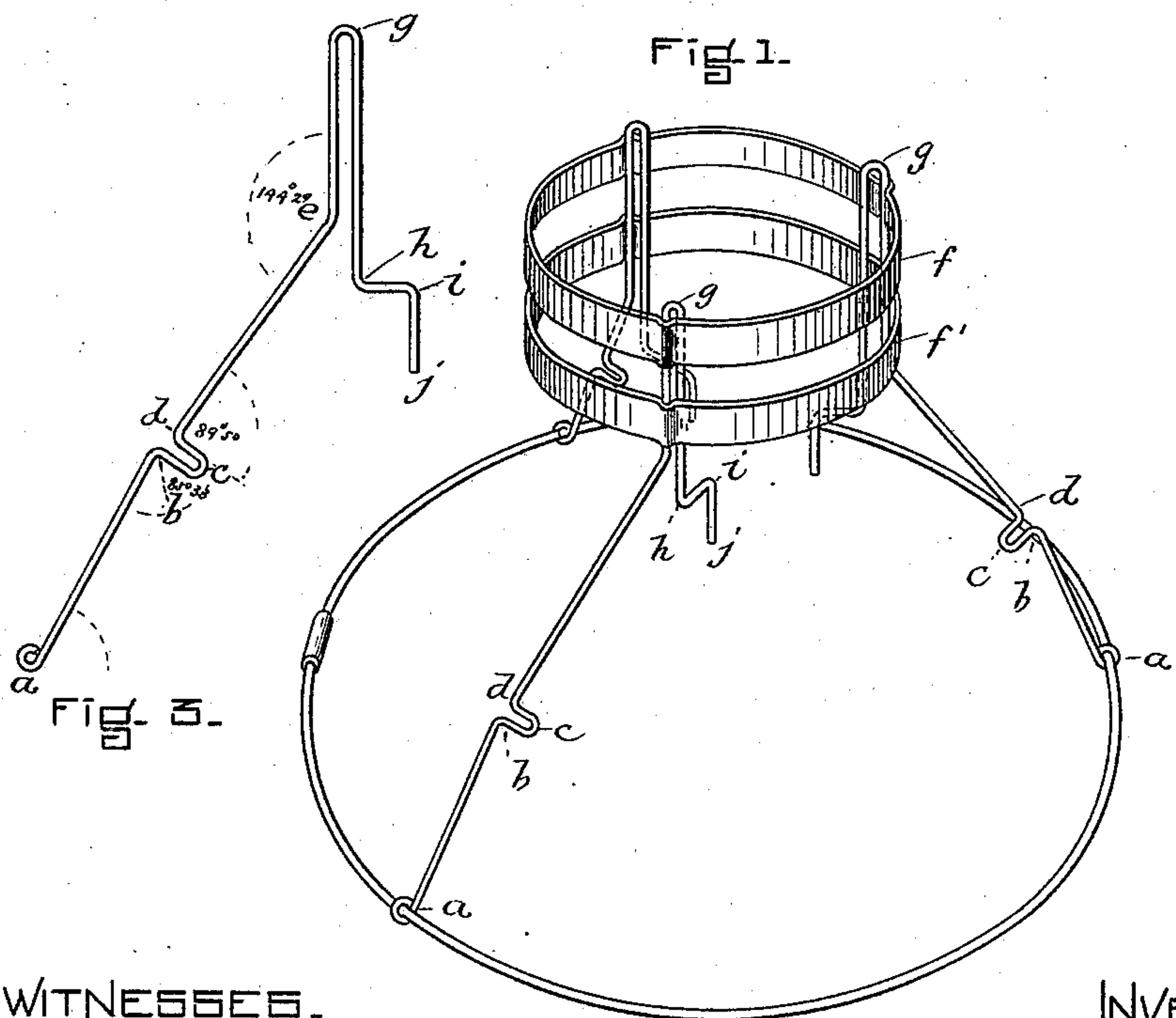


Fig. 2.

WITNESSES.

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FREDRICK A. STEARNS, OF BOSTON, MASSACHUSETTS.

## SHADE-HOLDER.

SPECIFICATION forming part of Letters Patent No. 351,717, dated October 26, 1886.

Application filed March 22, 1886. Serial No. 196,083. (No model.)

*To all whom it may concern:*

Be it known that I, FREDRICK A. STEARNS, a citizen of the United States, residing at Boston, in the county of Suffolk and Commonwealth of Massachusetts, have invented a new and useful Lamp-Shade Holder, of which the following is a specification.

My invention relates to an improvement in lamp-shade holders; and the object of my improvement is to provide a convenient and adjustable shade-holder, so constructed that it will support on the top of a porcelain or ground-glass or other globe or shade a shade of paper or other material without injury to the shade which my holder so supports from the heat of the lamp or gas.

I attain this object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 represents one form of my invention and Fig. 2 another form, the only difference being that in Fig. 2 I have employed two upper bands instead of one, as in Fig. 1. Fig. 3 is simply one wire as bent before connection with the band and ring. The wires are of the same material and alike in form each to each.

Reference is to Fig. 3. A straight piece of any reasonably-elastic wire, of any desired shape, thickness, and material, is cut into lengths of about ten inches, and at the point *b*, distant about two inches from *a*, the loop *b c d* is so formed that *b c d* shall be about two-thirds of an inch in length, and that *b c* shall form with *a b* an angle of about eighty-five degrees and thirty-three minutes, and that *c d* shall form with the still unbent portion of the wire an angle of about eighty-nine degrees and fifty minutes. Then at the point *e*, distant about two inches from *d*, the wire is again bent in the opposite direction to the first bending, so as to form an angle of about one hundred and forty-four degrees and twenty-nine minutes with *d e*. Then at the point *g*, distant about one and one-half inch from *e*, the wire is again bent in the opposite direction to the last-mentioned bending, so that *g h* is parallel to *e g* and distant therefrom about one-eighth of an inch. Then at the point *h*, distant about two inches from *g*, the wire is again bent in the opposite direction to the last-mentioned bending, so that *h i* forms with *g h* a right angle, and at *i*, dis-

tant about one-half an inch from *h*, the wire is again bent in an opposite direction to the last-mentioned bending, so that *i j* form with *h i* a right angle. Three or more wires so bent, as hereinbefore described, are connected by solder or otherwise with the ring *a a a*, Fig. 1, at the points so lettered on the wires, and the wires are so placed that they are equidistant each from each, and that the point *j* on each wire is toward the center of the ring *a a a*. Then a second ring or band of metal is attached by solder or otherwise to each of the wires at the point *f*, Fig. 1, which is about half-way between *e* and *g*. The holder is now complete.

In use I insert the points *j* into the top of the globe or shade and then place over my holder the paper or other shade it is intended to support. The loops *b c d* rest upon the side of the globe or shade; but the weight is supported from the top and protects the paper shade from injury by the heated globe. When I use two upper bands, as in Fig. 2, the lower one is nearer to *e* and the upper one is nearer to *g* than is the one upper band used in Fig. 1.

The band or ring *f* in Fig. 1 (and the bands or rings *f* and *f'* in Fig. 2) may be of any width and any diameter, according to the size of the globes or shades upon which the holder is to be used, and they may be fluted or otherwise ornamented. By preference I make them of brass; but they may be of any metal.

The dimensions and angles above given and the measurements may vary according to the size of holders to be made (I have given those which I generally use) without affecting my invention.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

The combination, in the form of a truss, of three or more wires, each having a hook, *h i j*, to be inserted in the top of the supporting-shade or globe, and other bends, *g* and *e*, and the loop *d c b*, with the bands or rings *a a a*, *f*, and *f'* to support lamp-shades from the top of a globe or shade, all substantially as described, and for the purposes set forth.

FREDRICK A. STEARNS.

Witnesses:

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GEORGE D. AYERS.