T. F. McGANN.

GAS SHADE-HOLDER.

No. 187,765. Patented Feb. 27, 1877.

Fig. 1.

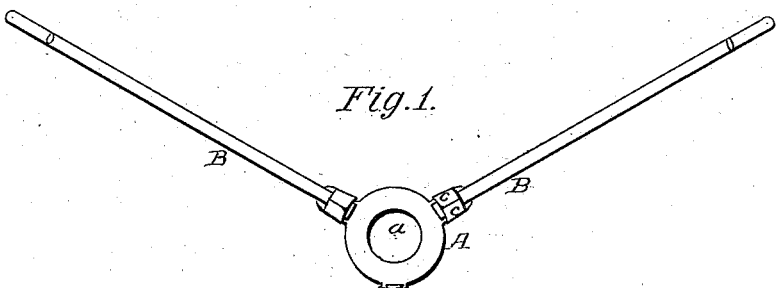


Fig. 2.

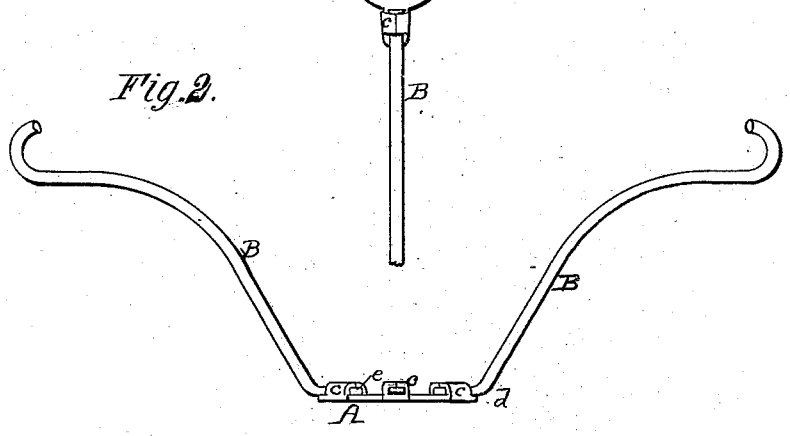


Fig. 3.

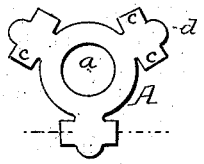


Fig. 7.

Fig. 4.

Fig. 5.

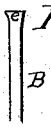


Fig. 6.

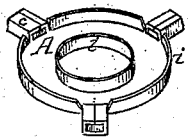
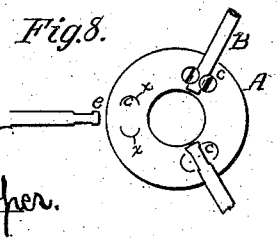


Fig. 8.



Attest

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UNITED STATES PATENT OFFICE.

THOMAS F. McGANN, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN GAS-SHADE HOLDERS.

Specification forming part of Letters Patent No. **187,765**, dated February 27, 1877; application filed June 29, 1876.

To all whom it may concern:

Be it known that I, THOMAS F. McGANN, of Boston, in the county of Suffolk and Commonwealth of Massachusetts, have invented Improvements in Gas-Shade Holder, of which the following is the specification:

My invention relates to that class of globe or shade holders for lamps in which a metal plate and radiating arms are combined; and consists in a mode of constructing and connecting the plate and arms so as to impart increased strength and durability, and facilitate and reduce the cost of manufacturing the articles.

In the drawing, Figure 1 is a plan view of a globe-holder, made in accordance with my invention; Fig. 2, an elevation; Figs. 3 to 5, detached views, showing the construction of the parts; and Figs. 6 to 8, modifications.

A is a metal plate, of circular or other form, having a central opening, *a*, to fit the lamp or burner to which the holder is to be attached; and B B are the arms, secured to the plate and serving to support the shade or globe, for which purpose they may be of any desired form, and of wire or plate, solid or hollow, or otherwise, as may be deemed most suitable.

In this class of articles the arms have heretofore been connected to the plates by rivets, which is expensive and unreliable, or by passing them through openings in the plates and riveting the ends, which plan, although cheap and reliable, requires the use of heavy material for the plates.

In my improvement I stamp or cut the plates A to form ears *c*, which are bent over and clamped upon the ends of the arms, confining them securely to the plates.

In Figs. 1 to 5 a circular plate, A, and arms B, with flattened ends *e*, are shown, the plate being cut to form ears *c*, which are bent up, as shown in Fig. 4, to receive between them the flattened ends *e* of the arms, and are then bent down on the latter, clamping the arms firmly to the plate.

It will be seen that portions *d* of the plate project beyond the lips to support the arms at the point where the greatest strain is sustained.

The arms are distended in spreading, and thereby enlarged at the ends, thus preventing them from being withdrawn longitudinally from the sockets formed by bending down the ears.

The arms may be flattened at the under sides and round at the top, and instead of forming the plate so as to confine the arms by two ears, one ear may be bent over and confine each arm, as shown in Fig. 7.

Where extremely thin metal is employed, additional strength and stiffness may be imparted by bending up the edges to form flanges *i i*, as shown in Fig. 6.

Fig. 8 shows a plate cut at *x* to form the lips which are bent over the ends of rods indented at the sides to form the enlarged ends *e*.

It will be seen that by the construction described, thin metal may be used for the plates, the arms of round or flat metal are securely connected thereto, and the manufacture of the article is facilitated.

I claim—

1. A globe or shade holder, in which arms B are connected to a plate, A, by means of lips of said plate bent down upon the arms, substantially as set forth.

2. In a globe or shade holder, the projections *d*, extending beneath and supporting the arms, as specified.

3. In a globe or shade holder, the combination of the plate A, its clamping-lips *c*, and arms B, enlarged at the ends, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS F. McGANN.

Witnesses:

WM. V. THOMPSON,

N. G. LYNCH.