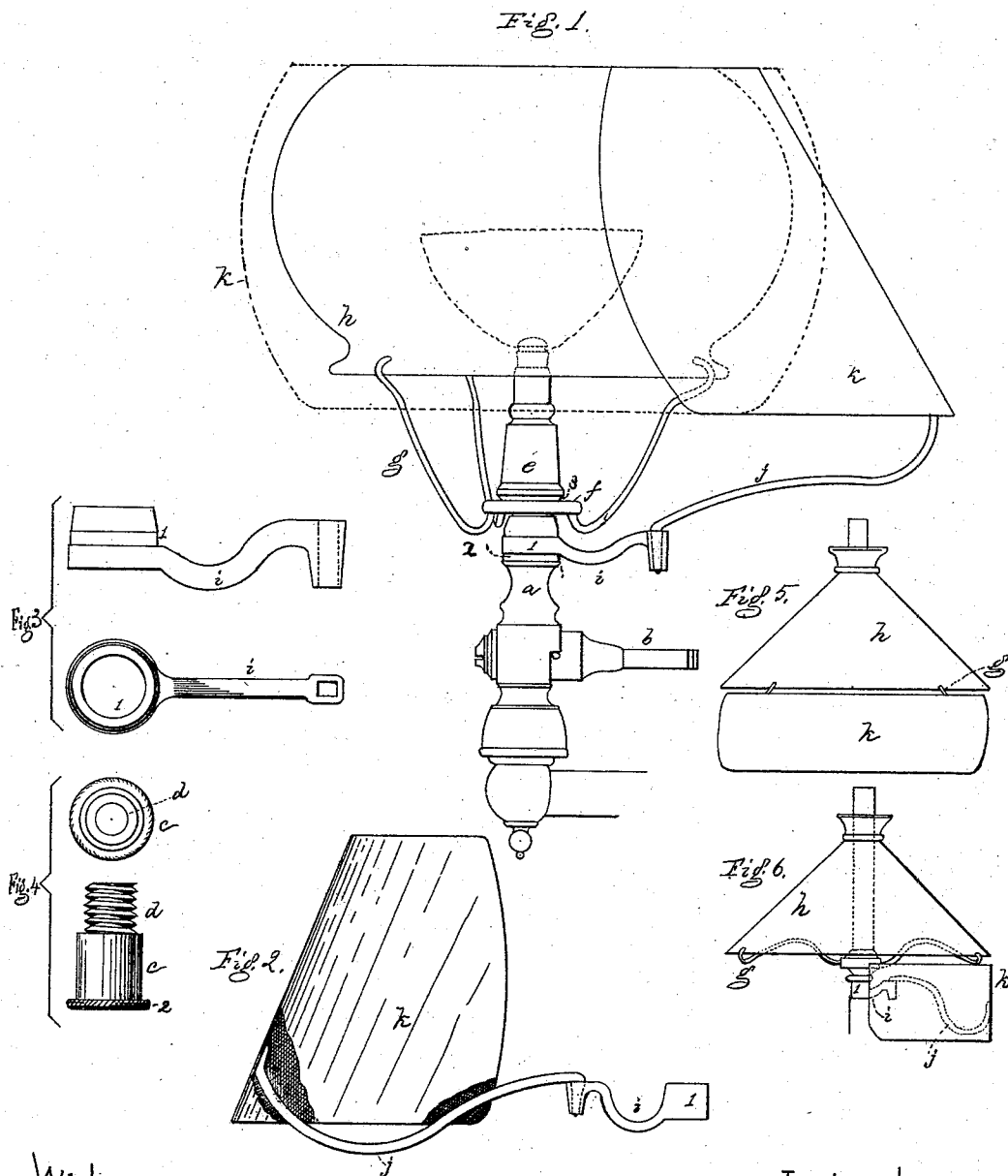


W. F. BONNELL, Jr.
SHADES FOR GAS-BURNERS.

No. 177,921.

Patented May 30, 1876.



Witnesses.

L. H. Latimer.

W. J. Pratt.

Inventor.

William F. Bonnell Jr.

per Crosby & Gregory atty.

UNITED STATES PATENT OFFICE.

WILLIAM F. BONNELL, JR., OF BOSTON, MASSACHUSETTS, ASSIGNOR TO
HIMSELF AND S. B. KIDDER, OF SAME PLACE.

IMPROVEMENT IN SHADES FOR GAS-BURNERS.

Specification forming part of Letters Patent No. **177,921**, dated May 30, 1876; application filed
May 5, 1876.

To all whom it may concern:

Be it known that I, WILLIAM F. BONNELL, Jr., of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Shades, of which the following is a specification:

This invention relates to shades for gas-lights employing either plain or Argand burners; and consists in the combination, with a shade, of a shade-holder adapted to fit or revolve about a base-piece arranged below the burner, substantially as hereinafter described.

The shade is made preferably of tin, but may be of other metal or of paper, or other material of which shades are made, and it is adapted to be readily turned about the usual gas flame or globe, and be interposed between the light and a person from whose eyes it is desired to keep the strong light, and so also the strong light may be reflected away from and be lessened at certain desired portions of an apartment.

Figure 1 represents a portion of a gas-fixture, which may be of any usual form, this improved shade and holder being shown in position at the right-hand side of the globe and burner, and in such figure the dotted lines outside the globe represent the shade turned directly in front of the globe. Fig. 2 represents the shade and shade-holder detached; Fig. 3, a side and top view of the shade-holder; Fig. 4, a side and top view of the base, over which the holder is fitted; and Figs. 5 and 6 represent in two positions the shade applied to an Argand burner or portable stand light.

The portion *a* of the gas-fixture, provided as usual with a key, *b*, has at top a screw-threaded portion to receive the internally screw-threaded portion of the base *c*, provided at top with an external screw-thread, *d*, to which the burner-shell *e* is screwed, the latter being of any desired form or kind. The plate *f* of the globe-holder *g*, adapted to support the globe *h*, is held between the flange 2 on the base *c* and the shoulder at the junction of the shell and base. The outer portion of the base *c* is made cylindrical, or it may be

conical, and is adapted to receive about it the hub 1 of the shade-holder *i*, provided at its outer end with a socket to receive the end of a rod, *j*, attached to and projecting from the shade *k*, the shade-holder thereby supporting the shade. The lower portion of the holder-collar rests against the flange of the base *c*.

It is obvious that the outer end of the shade might be provided with a projection, to enter a socket or hole in the rod *j*, and the shade *k* may be of any usual or desired shape; but the shape shown is preferred, and it may be placed more or less high with relation to the light and globe, according to the height of the light and its distance from the spot from which it is desired to reflect the strong light, and for this purpose the rod may be more or less bent; or it may be adjustably attached to the shade, instead of being soldered thereto, as shown in Fig. 2.

Instead of having the rod *j* as long as shown in the drawing, it might be made much shorter, and the shade-holder be made longer, and the latter might be long enough to connect directly with the shade; but this would not be so desirable as to use the rod of the length shown, for the rod *j*, being usually of wire, may be easily bent when the shade is being applied to a fixture or drop-light, so as to place the shade at the desired angle or position vertically with relation to the light; and from the construction described it will be obvious that the shade and holder may be revolved or turned freely about the globe or light.

The burner herein shown forms the subject-matter of another application filed concurrently with this, and to which reference is herein made.

I claim—

1. The combination, with the gas-burner base, of a shade and a shade-holder adapted to be supported by, and to be turned or moved freely about, the base, all substantially as described.

2. The globe and globe-holder and a burner, in combination with the base and a shade, and a shade-holder arranged below the globe-

holder, and adapted to turn freely about the globe and globe-holder, substantially as described.

3. A gas-burner base provided with a flange, 2, in combination with a shell provided with a shoulder, to project beyond the surface of the base, to confine a shade-holder, substantially as described.

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

WM. F. BONNELL, JR.

Witnesses:

G. W. GREGORY,
S. B. KIDDER.