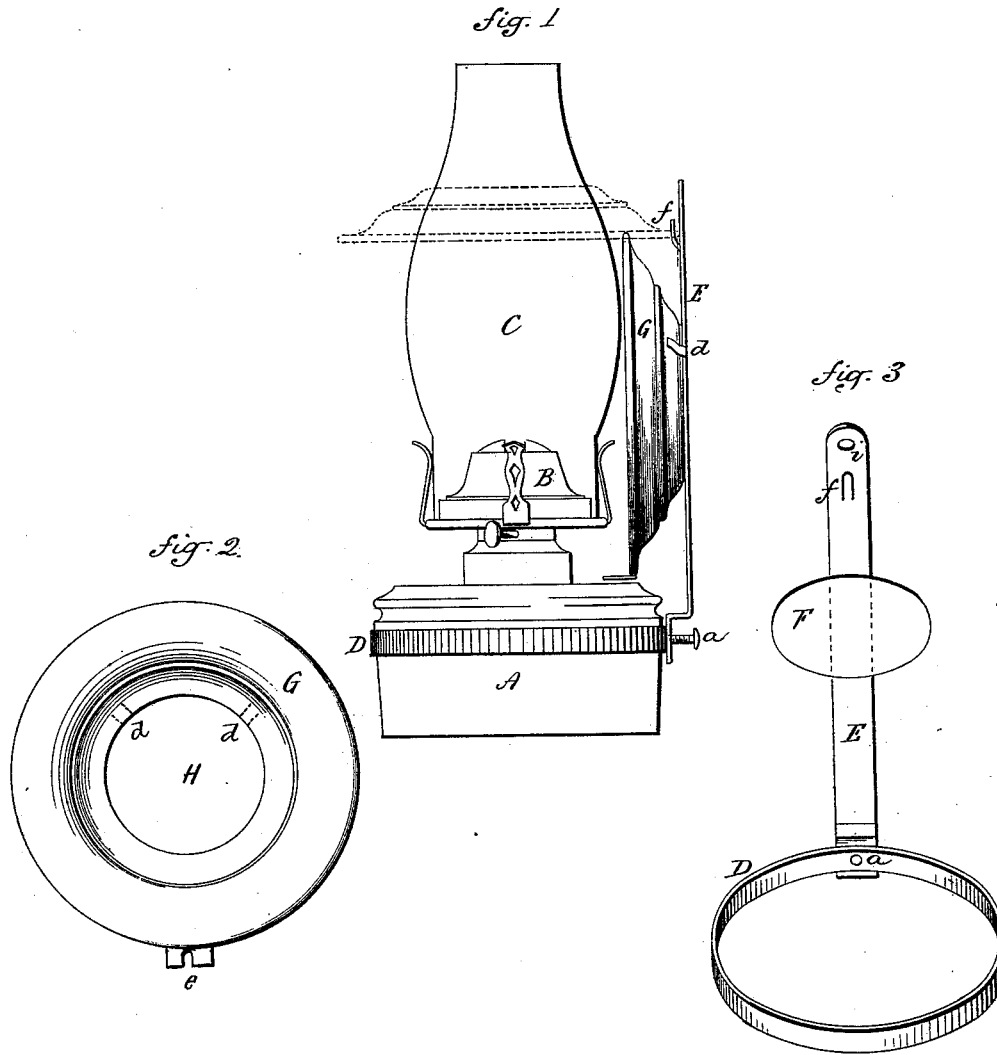


E. L. BRYANT & W. F. RUSSELL.  
Reflector.

No. 218,426.

Patented Aug. 12, 1879.



Witnesses.  
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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN REFLECTORS.

Specification forming part of Letters Patent No. 218,426, dated August 12, 1879; application filed June 18, 1879.

### *To all whom it may concern:*

Be it known that we, EDSON L. BRYANT, of Ansonia, county of New Haven, State of Connecticut, and WILLIAM F. RUSSELL, of East Orange, in the county of Essex and State of New Jersey, have invented a new Improvement in Lamps; and we do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a side view; Fig. 2, a reflector detached; Fig. 3, a perspective view of the reflector-holder detached.

This invention relates to an attachment for lamp-founts, the object being to construct the attachment so that the reflector may be used as a horizontal reflector or as a downward reflector; and it consists in the construction, as hereinafter described, and particularly recited in the claims.

A represents the fount; B, the burner; C, the chimney, of any of the well-known or desirable constructions. D is a metallic ring, constructed to embrace the fount and be secured thereto by a set-screw or otherwise, and to this ring the upright or vertical post E is attached. On this post is a disk, F, of sheet metal, corresponding to the center of the reflector G.

The reflector G is struck up from a disk of sheet metal into the usual reflector form, but with the center H cut out, as in Fig. 2. This center corresponds to the disk F, which is attached to the post, and its diameter is a little larger than the diameter of the chimney, where it is desirable to apply a reflector in a horizontal plane, so as to cast the light downward.

On the back of the reflector hooks *d* are attached, so that the reflector may hook on over

the edge of the disk F, and thereby retain its position in this condition, which is that shown in Fig. 1.

The reflector is at the back of the flame and throws the light horizontally, the disk F forming the center of the reflector.

To arrange the reflector to cast a light downward, it is removed from the disk F and placed over the chimney, as seen in broken lines, Fig. 1, and attached to the post by means of a hook or lug, *e*, engaging a corresponding lug or hook, *f*, on the post.

The post may be used as a means for hanging the lamp upon the wall, it only being necessary to provide it with an attaching device, (here represented as a perforation, *i*,) near the top of the post.

The ring may be adjusted around the lamp-fount, so as to bring the reflector parallel with the flame, that the broad surface of the flame may be exposed to the reflector; or if hung upon the wall the lamp may be turned within the ring.

I claim—

1. In combination, a reflector provided with a central opening, whereby it is adapted to be placed, when desired, over a lamp-chimney, and a stationary reflecting-disk, and means for securing the reflector about the disk, substantially as described.

2. In combination with a lamp-fount and its burner, the adjustable ring D and vertical post attached thereto, provided with stationary disk F, and a reflector having a central opening and means for attaching it to said disk, substantially as described.

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Witnesses:

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