

C. M. MURCH.
Reflectors.

No. 149,780.

Patented April 14, 1874.

FIG. 1.

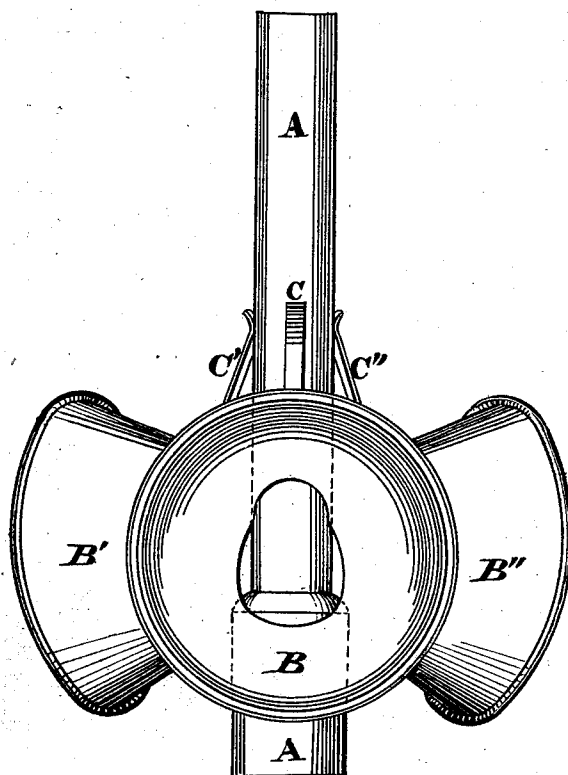
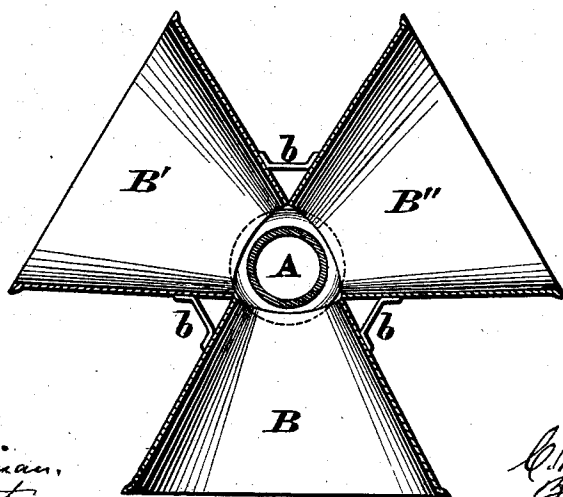


FIG. 2.



Attest.
Jas. H. Lippman,
James Vincent

C. M. Murch
By Knight & Potts.
Att'ys.

UNITED STATES PATENT OFFICE.

CHAUNCEY M. MURCH, OF CINCINNATI, OHIO.

IMPROVEMENT IN REFLECTORS.

Specification forming part of Letters Patent No. **149,780**, dated April 14, 1874; application filed March 21, 1874.

To all whom it may concern:

Be it known that I, CHAUNCEY M. MURCH, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Threefold Reflector for Lamps, of which the following is a specification:

My invention comprises an arrangement of three several reflectors, adapted to any ordinary lamp or burner, so as to concentrate the light in as many definite directions as there are reflectors.

Figure 1 is a side elevation, and Fig. 2 a horizontal section, through a common coal-oil or kerosene lamp chimney provided with my reflector.

A represents a chimney, such as used in kerosene-lamps and for gas-burners. B B' B'' are three funnel-formed or truncated parabolic reflectors, joined at their apexes by braces *b* or otherwise, and having projecting from their tops three elastic fingers, C C' C'', adapted, when the compound reflector is in position, to press lightly around and thus grasp the said

chimney, so as to hold the said compound reflector in its exact and proper place.

The reflectors may be arranged, one or more of them, to project the rays either horizontally, as shown, or at any other upward or downward angle or angles desired. They may also be of greater numbers and corresponding directions, up to ten, for which I reserve the right to make the subject of one or more separate applications for patent.

I claim herein as new and of my invention—

The combination of the three truncated, parabolic, or conical reflectors, B B' B'', joined together at their apexes, and having springs C C' C'', supporting them adjustably at any height, all as herein shown and described.

In testimony of which invention I hereunto set my hand.

CHAUNCEY M. MURCH.

Attest:

GEO. H. KNIGHT,
JAMES H. LAYMAN.