

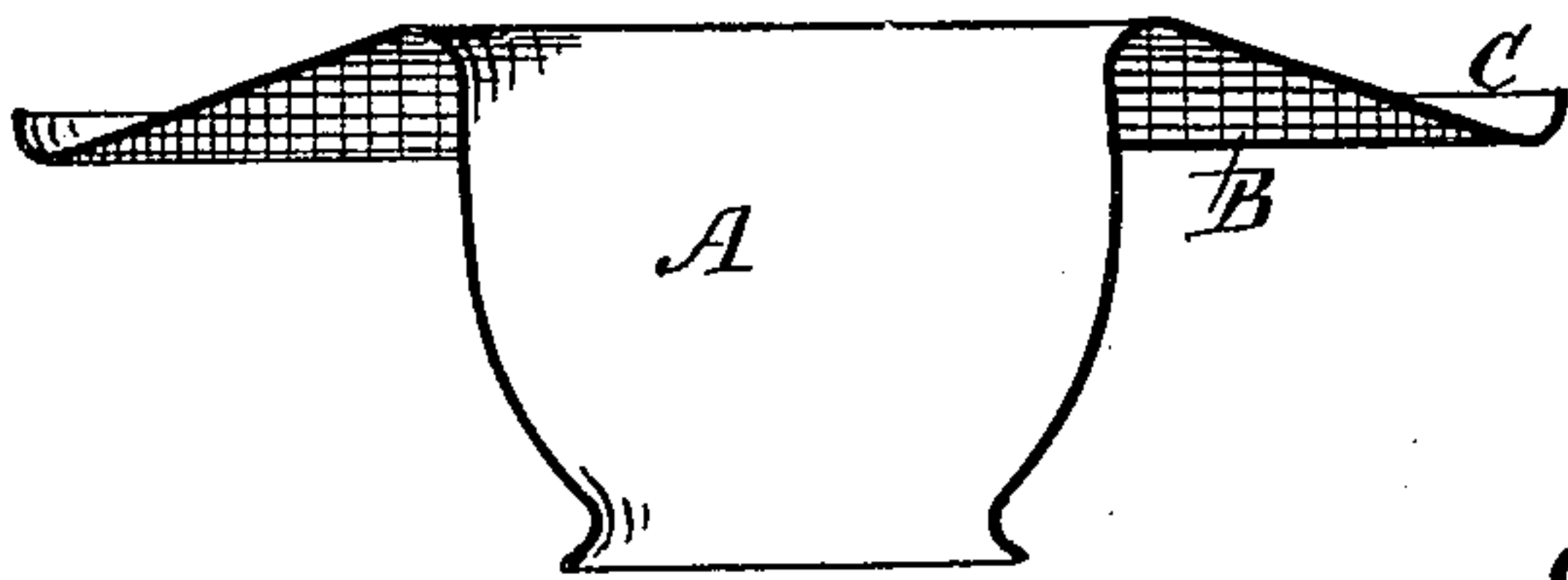
(No Model.)

W. M. MARSHALL.  
SHADE AND CHIMNEY FOR LAMPS.

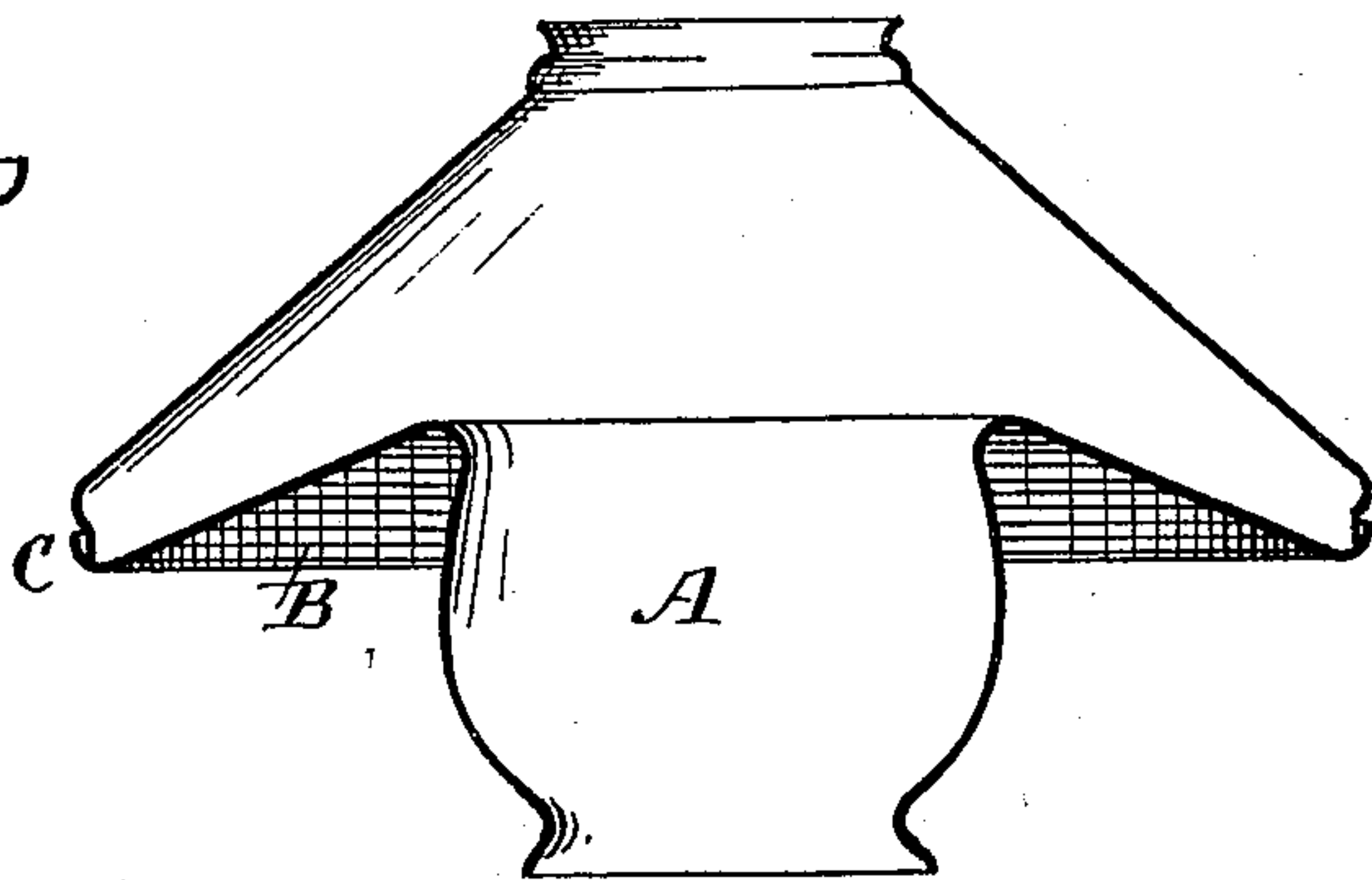
No. 253,079.

Patented Jan. 31, 1882.

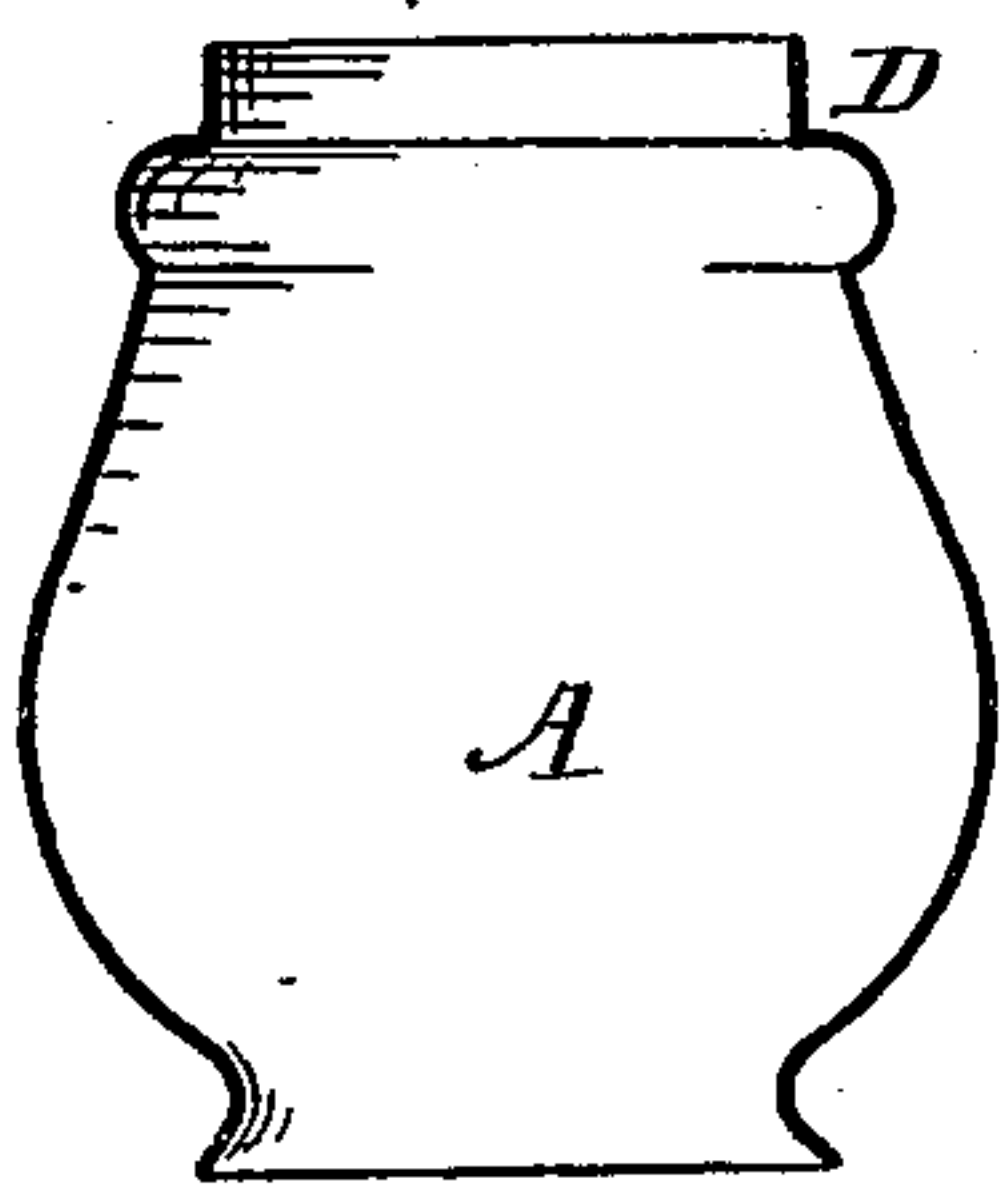
*Fig. 1.*



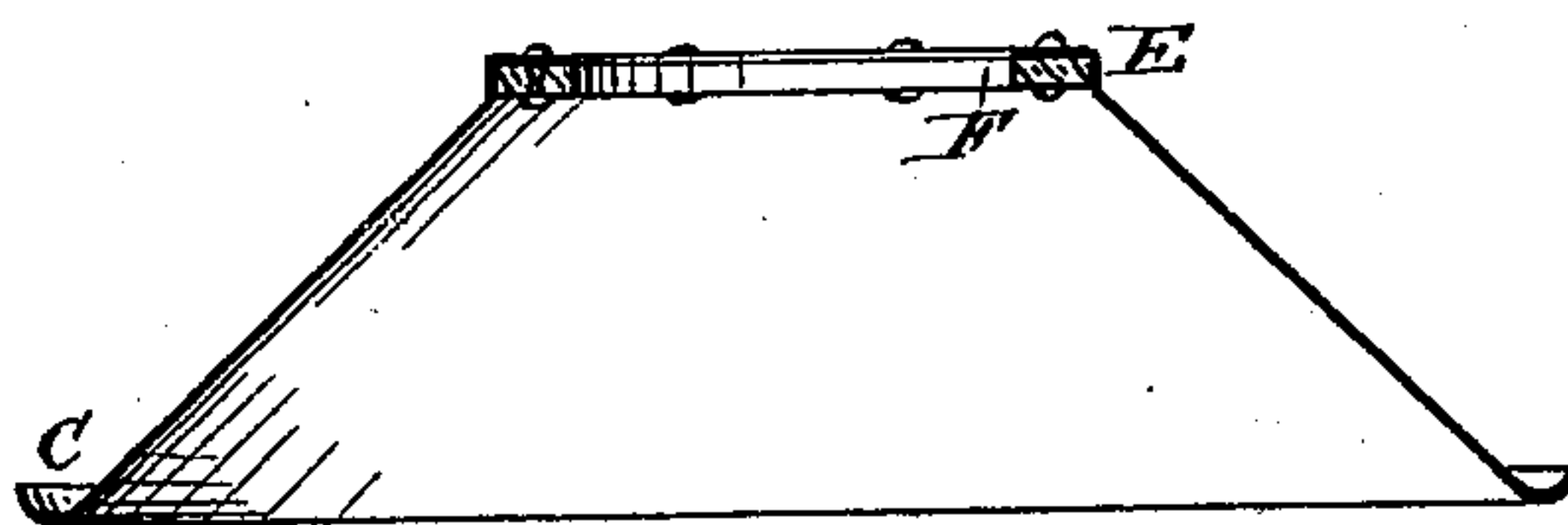
*Fig. 2.*



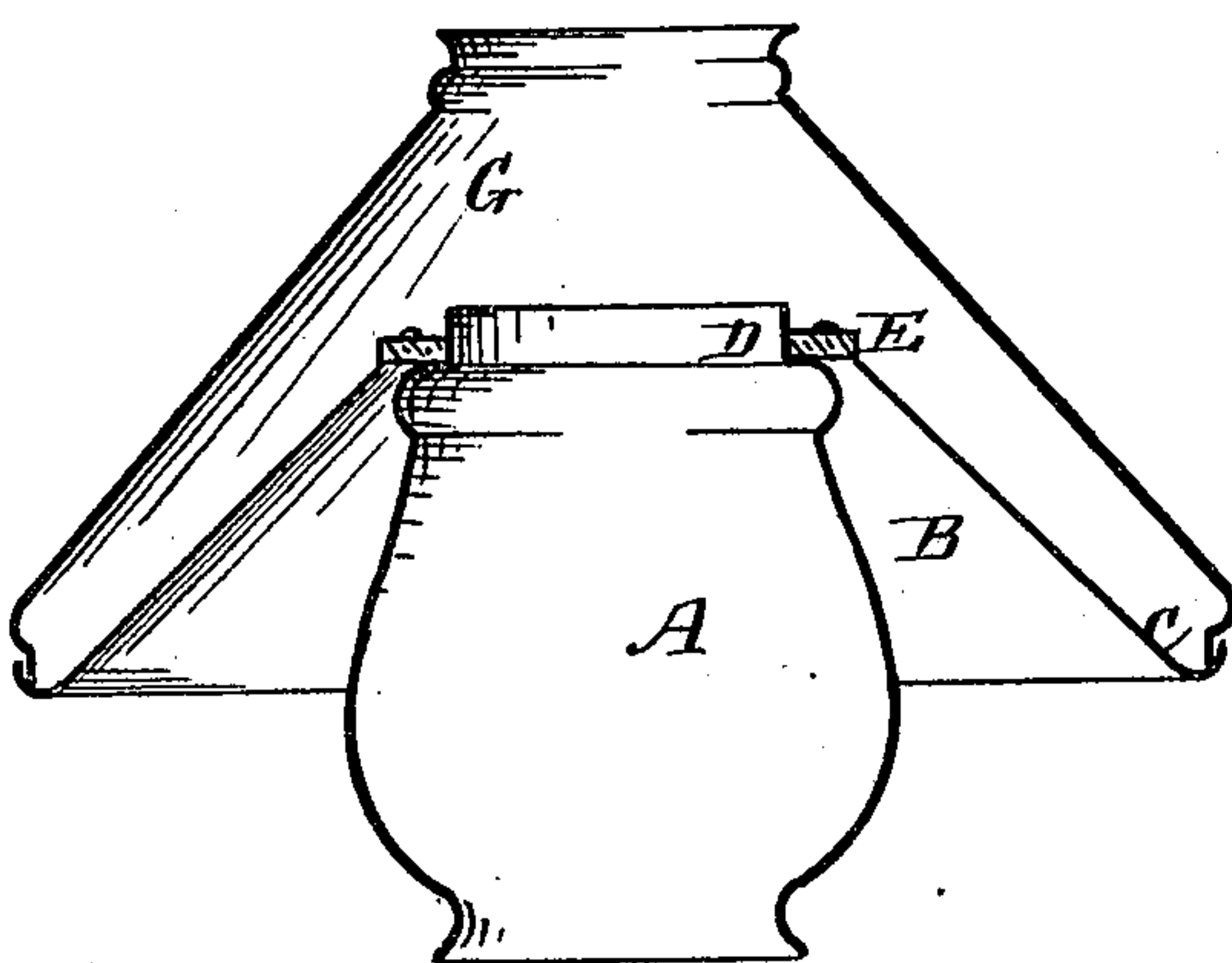
*Fig. 3.*



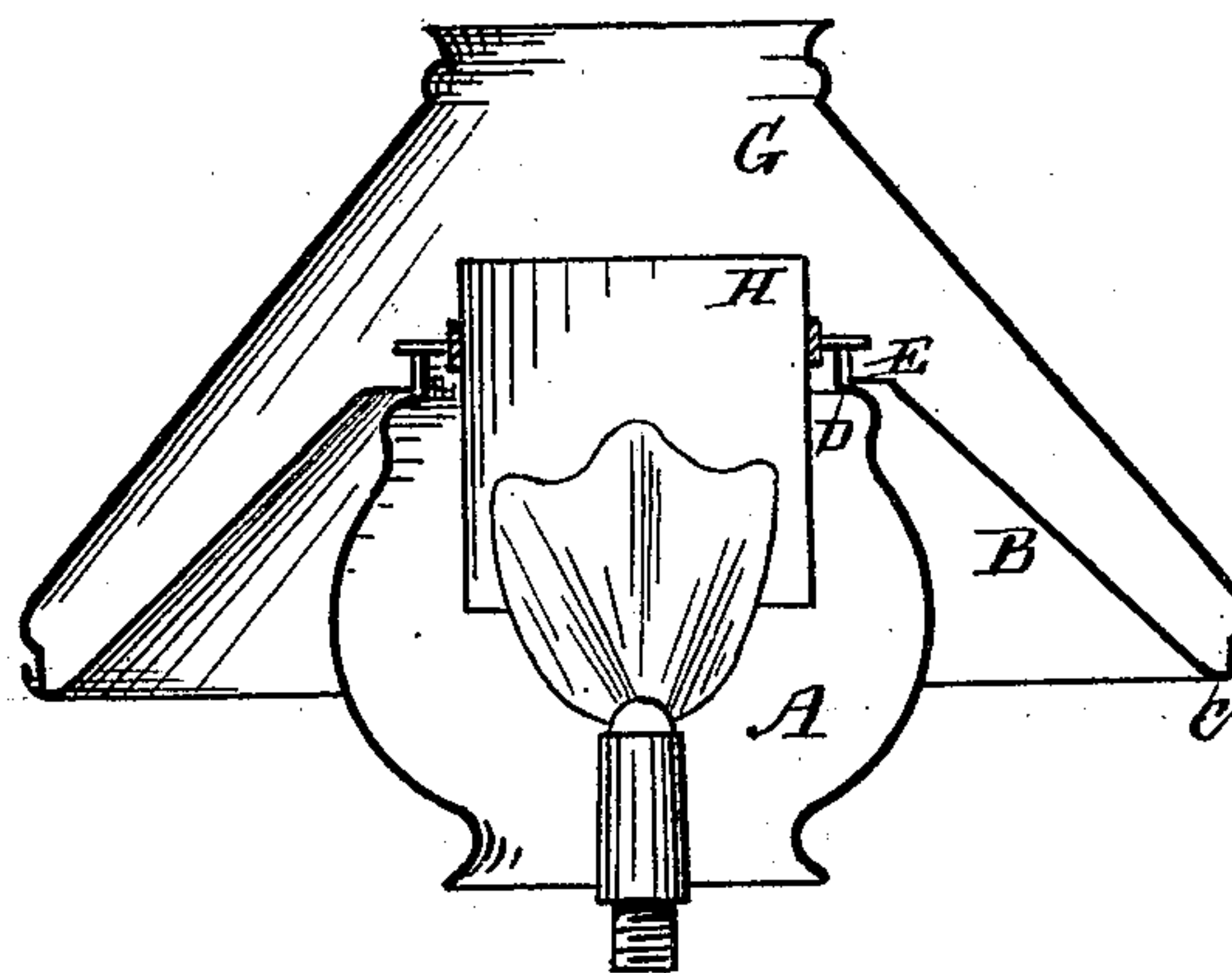
*Fig. 4.*



*Fig. 5.*



*Fig. 6.*



*Witnesses:*

*E. E. Masson*

*W. B. Mason*

*Inventor:*

*William M. Marshall*

*By T. C. Woodward*  
*atty.*

# UNITED STATES PATENT OFFICE.

WILLIAM M. MARSHALL, OF PHILADELPHIA, PENNSYLVANIA.

## SHADE AND CHIMNEY FOR LAMPS.

SPECIFICATION forming part of Letters Patent No. 253,079, dated January 31, 1882.

Application filed October 10, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM M. MARSHALL, a resident of Philadelphia, in the county of Philadelphia, in the State of Pennsylvania, have invented a new, useful, and important Improvement in Shades and Chimneys for Lamps, &c., described in this specification and the drawings thereof.

Figure 1 represents a flint-glass chimney, in section, with a depressed reflector silvered or coated with metal. Fig. 2 represents a transverse section thereof with a shade supported on it. Fig. 3 represents a chimney with an offset on which to place a metal reflector having a flange at the top with cork fastened thereto. Fig. 4 represents a metal reflector having a flange with cork fastened thereto. Fig. 5 represents a chimney with a metal reflector placed on it and an "opal" shade resting on the metal reflector. Fig. 6 represents an opal shade supported on an inside metal reflector, with a mica protector supported on the chimney or on the flange of the metal reflector to steady the flame and protect the opal shade. My invention consists in the combination of a chimney having a depressed reflector and a shade supported thereon, and the combination therewith of a mica cylinder to steady the flame and reflect the light from ordinary lamps or gas-burners.

I make a chimney-base, A, of flint glass, having a reflector, B, with a flange, C, on its outer edge. This reflector I silver or coat with metal, forming the reflecting-surface.

I make the chimney of flint glass, about three inches long, and to fit the usual lamp-burner I enlarge it toward the top, just below which I contract it to form a shoulder, D, on which I suspend the metal reflector, which has a metal flange, E, at the top. I fasten to this flange sheet-cork F or other non-conducting material of the same shape as the flange and projecting a little beyond it inwardly to come in contact with the chimney and obviate breaking from heat. The opal shade G is then placed on the metal reflector.

The metal reflector can be used inside of an opal or other shade, with or without the chimney on a gas-burner, reflecting the light and

illuminating the shade. In that case the reflector may rest on arms and the shade rest on the flange C of the reflector, and a short cylinder, H, of mica, may be placed inside of the reflector, and held on the chimney or on the reflector by arms. The cylinder should be a little less in diameter than the opening in the reflector. The cylinder will steady the gas-flame, like an Argand burner, and as an opal or other shade can be used with a fish-tail burner.

The construction may be varied from that described within the scope of my improvements.

I claim as my invention—

1. The combination of a chimney of flint glass having a depressed reflector silvered or coated with metal and an opal or other shade supported thereon, substantially as set forth.

2. The combination of a chimney of flint glass having a shoulder at the top, a reflector silvered or coated with metal set on the chimney, and an opal or other shade set on the reflector, substantially as set forth.

3. The combination of a chimney having a depressed reflector and a shade supported thereon, substantially as set forth.

4. The combination of a chimney, a depressed reflector having a heat-non-conducting support, and a shade supported on the reflector, substantially as set forth.

5. The combination of a chimney, a depressed reflector supported on the chimney, a shade supported on the reflector, and a cylinder inside of the chimney to reflect the light and steady the flame from a lamp or gas burner, substantially as set forth.

6. The combination of a flint-glass chimney, a cylinder of mica, a reflector, and a shade, substantially as set forth.

In testimony whereof I hereunto subscribe my signature, in the presence of two attesting witnesses, on the 9th day of September, 1881.

WILLIAM M. MARSHALL.

Witnesses:

ANDREW N. COLE,

THOMAS C. WOODWARD.