

T. HIPWELL.  
LAMP.

No. 501,275.

Patented July 11, 1893.

Fig. 1.

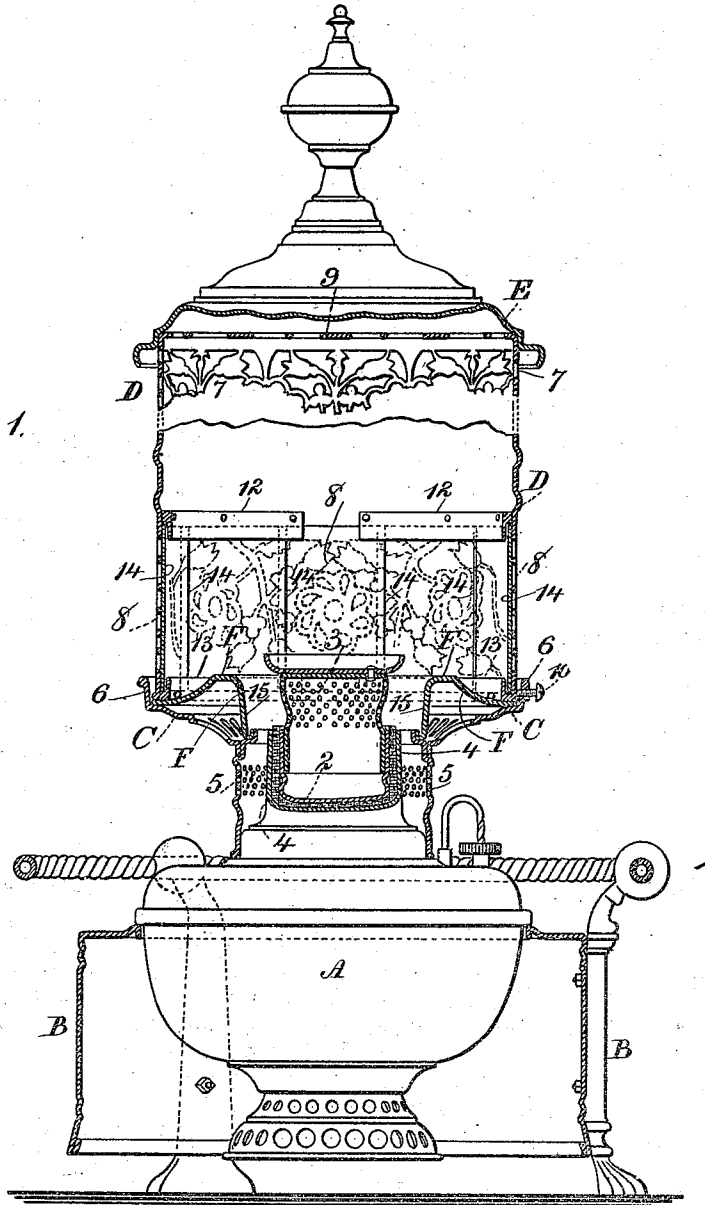
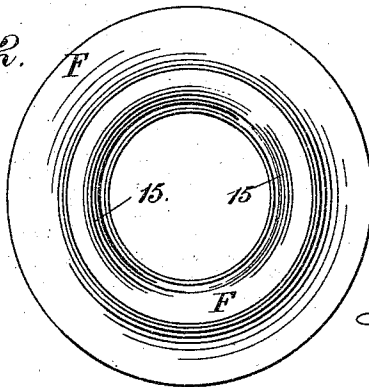


Fig. 2.



Witnesses

Chas. A. Smith  
Geo. T. Pinckney

Inventor.

Thomas Hipwell  
per  
Lemuel W. Serrell  
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# UNITED STATES PATENT OFFICE.

THOMAS HIPWELL, OF LONG ISLAND CITY, ASSIGNOR TO THE MANHATTAN  
BRASS COMPANY, OF NEW YORK, N. Y.

## LAMP.

SPECIFICATION forming part of Letters Patent No. 501,275, dated July 11, 1893.

Application filed April 10, 1893. Serial No. 469,643. (No model.)

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

Be it known that I, THOMAS HIPWELL, a citizen of the United States, residing at Long Island City, (Astoria,) in the county of Queens and State of New York, have invented an Improvement in Lamps, of which the following is a specification.

In Letters Patent No. 477,366, granted to me June 21, 1892, an Argand lamp is represented with a chimney of sheet metal, at the upper end of which is a support for a pot or other article to be heated by the lamp, the said device being especially adapted to cooking purposes.

In the present improvement I am able to make use of a large Argand lamp and in place of the chimney I employ an ornamental heating drum with a deflector around the flame and at the bottom of the ornamental heating drum, and an openwork supporting ring for sustaining the ornamental drum, whereby the heat is not conducted to the fountain and the ornamental surface of the heating drum and of the openwork supporting ring is not discolored by the action of the heat. By this means my improvement is specially available for heating apartments by the Argand lamp, and an agreeable light is diffused throughout such apartment from the flame through the openwork of the ornamental drum and through the mica that is employed for closing the openings in the lower part of such ornamental drum.

In the drawings, Figure 1 is an elevation of the improved lamp partially in section, and Fig. 2 is a detached plan view of the deflector.

The lamp reservoir A is of suitable size and is provided with a proper supporting base B and this lamp is provided with a central air tube 2 and a perforated deflector 3 at the upper end thereof, and around the wick tube 4 is an air distributor 5 with numerous fine holes for the passage of the atmosphere to the base of the flame, and rising from this air distributor 5 is the ornamental ring C for the drum D, and this ring C is made with openwork between the outer rim portion 6 and the air distributor 5, and such ring may be made in one with the air distributor or be removably connected thereto. The ornamental drum D is preferably of sheet brass and made with nu-

merous openings at 7 and 8 in the upper and lower portions of such drum, and these openings are properly curved to form artistic figures that add very materially to the ornamental appearance of the drum as the light shines through these openings, and this drum D is received within the ornamental ring C and secured therein by the screws 10, and the upper end of the drum D may have an ornamental head 9 which is advantageously flat and adapted to receive the removable cap E which is of ornamental metal and can be taken off when the lamp is burning or replaced when the lamp is not in use, so as to cover up the head 9 which usually becomes discolored to a greater or less extent in consequence of being exposed to the heat of the flame. Around within the drum D there are interrupted bands 12 and 13 which are secured at their upper and lower edges respectively to the interior of said drum in order that strips or sheets of mica 14 may be slipped in between these bands, the same being entered where the bands are interrupted and slid along until the whole interior surface of the drum between such bands 12 and 13 is lined with the mica, and these bands 12 and 13 are above and below the lower set of openings 8 in the ornamental drum, the object being to prevent the passage of air into the lower part of the drum, thereby confining the heat that is radiated from the flame and causing such heat to be given off by the mica and by the sheet metal of the drum.

To prevent smoke and permit a perfect combustion of the oil, I make use of the deflector F which is in the form of a disk setting within the ring C and having a central opening and a downwardly projecting rim 15 which surrounds the base of the flame and rests at its lower edge upon the sheet metal of the ornamental ring C at the central opening therein, so as to prevent atmospheric air from passing into the flame except through the perforations of the air distributor 5. This prevents the flame flickering and at the same time concentrates the action of the atmosphere upon the base of the flame so that the combustion of the oil is perfect and smoke and smell are avoided and a glass chimney is dispensed with, and the heat which would ordinarily be sufficient to melt or soften a glass chimney,

were one made use of, is radiated and distributed to the ornamental drum D and thence to the surrounding atmosphere, and this ornamental drum D does not become sufficiently heated for igniting any garment that may come in contact with the same, and the openings in the ornamental drum allow the passage of light through such openings and through the mica, thereby furnishing sufficient illumination for an ordinary apartment by modifying the light that would otherwise be too intense, and the heater is efficient in warming such apartment by the heat radiated to the drum and passing into the atmosphere by radiation and convection.

I claim as my invention—

1. The combination with an Argand lamp having a central air tube and perforated deflector, of an air distributor surrounding the wick tube, an ornamental ring extending out from the air distributor, an ornamental drum of perforated sheet metal resting upon the ornamental ring and having openings at the upper and lower portions of such drum, transparent material within the ornamental drum and closing the lower openings therein, and a sheet metal deflector formed as a disk at the base of the drum with a central opening and rim surrounding the flame and directing the draft to the base, substantially as set forth.

2. The combination with the ornamental drum of sheet metal with openings therein, of the interrupted bands within the ornamental drum and connected near their upper and lower edges respectively, and mica in sheets introduced between the interrupted bands at the openings between the ends and slipped around between such bands to close the openings in the lower part of the ornamental drum, an Argand lamp, an air distributor around the wick tube, and an ornamental rim extending out from such air distributor and supporting the drum, substantially as set forth.

3. The combination with the Argand lamp having a central air tube and perforated deflector, of an air distributor surrounding the wick tube, an ornamental ring extending out from the air distributor, a deflector in the form of a disk having a central opening and internal rim surrounding the base of the flame and resting upon the ornamental ring, and a sheet metal drum supported by the ornamental ring and adapted to receive and radiate the heat from the flame, substantially as set forth.

Signed by me this 3d day of April, 1893.

THOMAS HIPWELL.

Witnesses:

J. J. WRENN,

R. TURNER.