

(No Model.)

C. S. UPTON.
LAMP STOVE.

No. 559,153.

Patented Apr. 28, 1896.

Fig. 1.

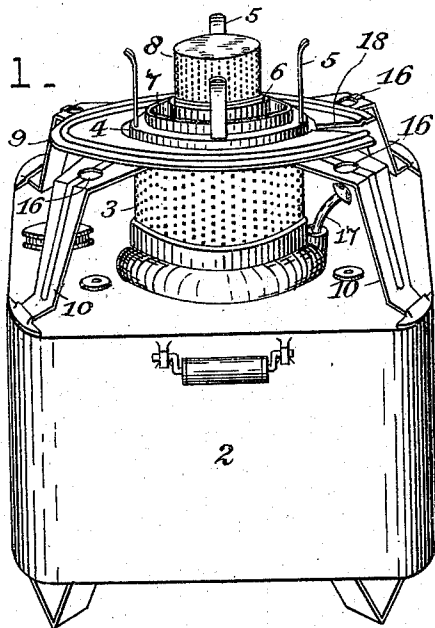


Fig. 2.

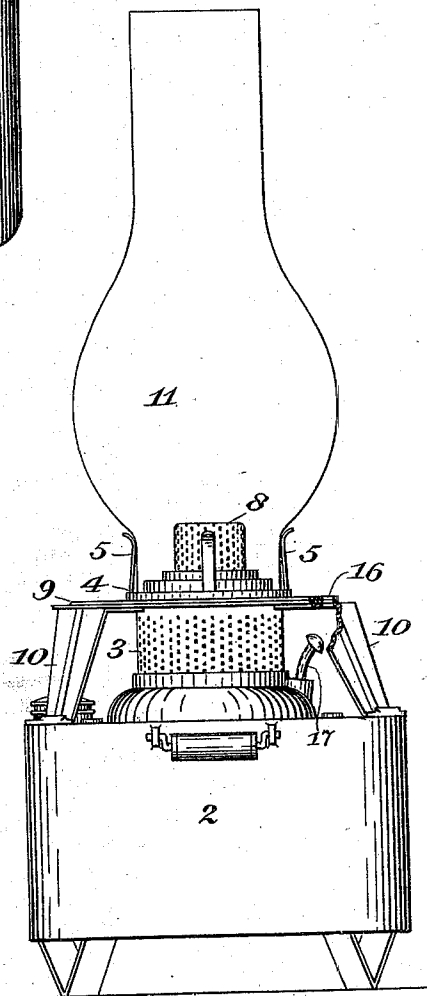
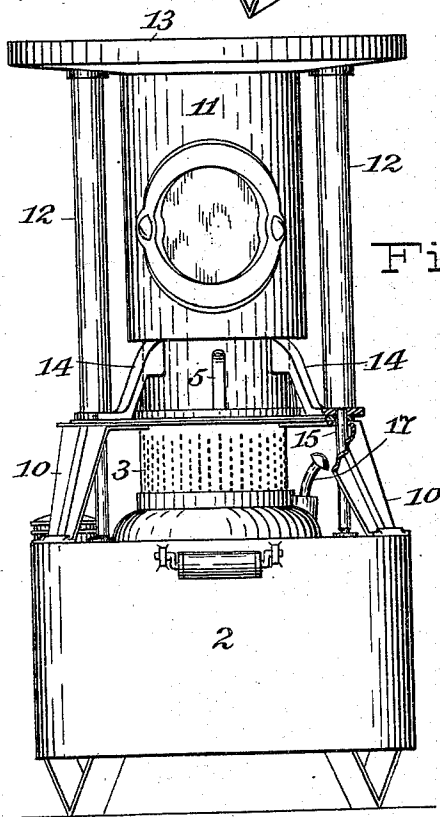


Fig. 3.



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UNITED STATES PATENT OFFICE.

CHARLES S. UPTON, OF NEW YORK, N. Y.

LAMP-STOVE.

SPECIFICATION forming part of Letters Patent No. 559,153, dated April 28, 1896.

Application filed February 4, 1893. Serial No. 460,966. (No model.)

To all whom it may concern:

Be it known that I, CHARLES S. UPTON, a citizen of the United States, and a resident of the city of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Lamp-Stoves, of which the following is a specification.

The object of this invention is to produce a convenient and economical lamp-stove, one simple in construction and operation, and which can be used either as a stove or heater for various articles and for cooking under certain circumstances or as an ordinary lamp for illuminating purposes; and the invention consists in applying to an ordinary lamp a heating attachment which can be quickly and easily placed in position for use after the lamp-chimney has been removed, the heating attachment and chimney being simply interchangeable whenever desired.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, wherein similar numerals of reference designate like or equivalent parts wherever found throughout the several views, and in which—

Figure 1 is a perspective view of an ordinary central-draft-lamp reservoir, burner, and chimney-holder, together with the support for a heating attachment. Fig. 2 is a view in elevation of the device shown in Fig. 1, with an ordinary lamp-chimney applied thereto; and Fig. 3 is a similar view of the device shown in Fig. 1, provided with a heating attachment.

Referring to Fig. 1 of the drawings, the reference-numeral 2 designates the reservoir; 3, the burner-body, perforated for the admission of air in the usual manner; 4, the annular chimney-support provided with the usual spring-holders 5, and 6 the annular wick-chamber surrounded by the usual annular space 7. In the construction shown a perforated thimble or air-distributor 8 is supported by the central tube of the lamp, through which the air passing through said tube is distributed to the inner mantle of the flame. All these parts are of well-known construction and form no part of this invention, being in all particulars substantially the same as the ordinary

“Rochester” lamp, and their illustration in section and detailed description is not deemed necessary.

Attached to or sustained by the reservoir 2 is a support 9, consisting of an annular plate provided with legs or stays 10, which rest upon and are preferably secured to the reservoir, and upon this support the heating attachment is placed whenever it is desired to use the lamp as a heater. This heating attachment consists, as shown in Fig. 3, of a frame composed of a chimney 11, side rods or bars 12, a top plate 13, and braces or stays 14. These braces or stays 14 are secured to the lower part of the chimney, as shown, in any desired manner, and extend downward and outward, and are preferably so arranged as to rest, when the heater is in position, upon the upper flat portions of the legs or stays 10 of the support 9. The side rods or bars 12 rest upon the lower portions of the braces or stays 14, and a pin or projection 15, formed on the lower end of each rod, passes through a corresponding perforation in the lower portion or foot of the corresponding stay or brace. The top plate 13 is preferably secured to the chimney 11 and the upper ends of the rods or bars 12 in any desired manner, and this plate is of the ordinary “spider” form and provided with a central passage through which the hot gases or products of combustion readily pass.

The lower portion of the chimney of the heating attachment is smaller than the main body thereof, as shown in Fig. 3, and is so formed as to fit exactly upon the chimney-holder of the lamp within the springs 5 in the same manner as the chimney 11. (Shown in Fig. 2.)

As thus constructed, the heating attachment consists in its entirety of a single instrumentality, which, as will be seen, is in use readily interchangeable with an ordinary chimney, such as that shown in Fig. 2.

When the heating attachment is placed in position upon the lamp, the projections or pins 15 on the lower ends of the rods 12 pass through the perforations 16, formed in the upper flat portions of the legs or stays 10, and are preferably of such length as to extend

down to and rest upon the top of the reservoir or blocks placed thereon, as shown in Fig. 3, and hold the heater firmly in position.

In operation the vessel or article to be heated is placed upon the plate 13 in the usual manner, and the wick of the lamp (not shown) is adjusted by raising or lowering the bars 17, a portion of the plate 10 being preferably cut away, as shown at 18, to permit of this operation of the wick-adjuster, and in the class of lamps referred to as the "Rochester" the burner and wick-holding band which surrounds the central tube of the lamp, together with the bar 17, are all removable from the reservoir, and because of this fact I prefer that the plate 9 be cut in two, as shown in Fig. 1, or provided with an opening to permit of this operation, though this is not essential to the invention, as another form of wick-adjuster may be employed.

It is evident that many changes may be made in the construction of this device without departing from the scope of my invention, and I do not limit myself to the exact form shown; but,

Having fully described my invention, its construction and operation, I claim, and desire to secure by Letters Patent, the following:

1. The combination with a lamp provided with an ordinary burner and chimney-holder of the support 9 and a heating attachment adapted to rest upon said support and to be held in place thereon and provided with a chimney, the lower end of which is adapted to fit upon said chimney-holder, substantially as shown and described.

2. The combination with a lamp provided with a removable burner and wick-adjuster of an annular support as 9, for a heater, said support being cut away, or provided with an opening as 18, substantially as shown and described.

3. The combination, with a lamp provided

with an ordinary burner and chimney-support, of a heating attachment consisting of a chimney adapted to enter said chimney-support and having a spider at its upper end, a support 9, and side bars 12, attached to said spider and resting upon said support 9, substantially as described.

4. The combination, with a lamp provided with an ordinary burner and chimney-support, of a heating attachment consisting of a chimney adapted to enter said chimney-support, and having a spider at its upper end, a support 9 for the heating attachment, side bars 12 attached to the spider and resting upon said support 9, and braces 14, for said side bars, substantially as described.

5. The combination, with a lamp provided with an ordinary burner and chimney-support, of a heating attachment consisting of a chimney adapted to enter said chimney-support and having a spider at its upper end, a support 9 for carrying the weight of said heating attachment, side bars 12, attached to said spider and resting upon said support 9, and sockets in said support 9, for receiving said side bars, substantially as described.

6. The combination, with a lamp provided with an ordinary burner and chimney-support 4, of a heating attachment consisting of a chimney 11, adapted to enter said chimney-support, and having a spider 13, at its upper end, an auxiliary support 9, concentric with the burner and supported by the body of the lamp for holding the weight of said heating attachment, and side bars 12, attached to said spider and resting upon said auxiliary support, substantially as described.

Signed at the city of New York, in the county of New York and State of New York, this 2d day of February, A. D. 1893.

CHAS. S. UPTON.

Witnesses:

L. E. CARMAN,
CHAS. WIRTH.