

(No Model.)

J. E. WILBUR.
LAMP STOVE.

2 Sheets—Sheet 2.

No. 382,579.

Patented May 8, 1888.

Fig. 2.

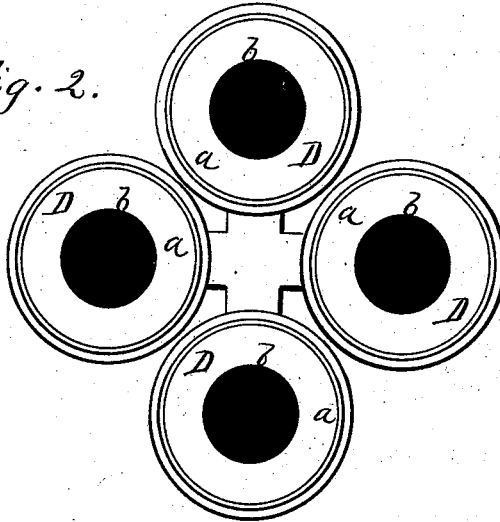


Fig. 4.

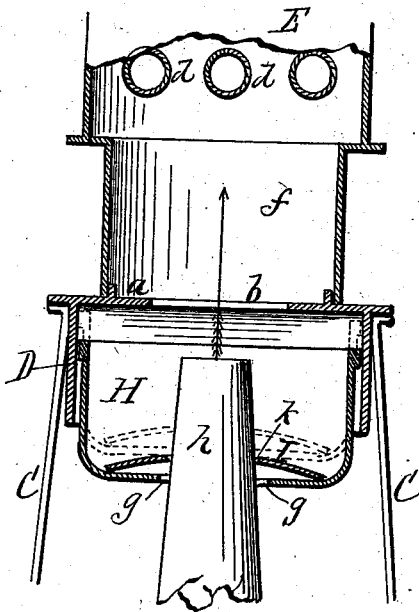


Fig. 3.

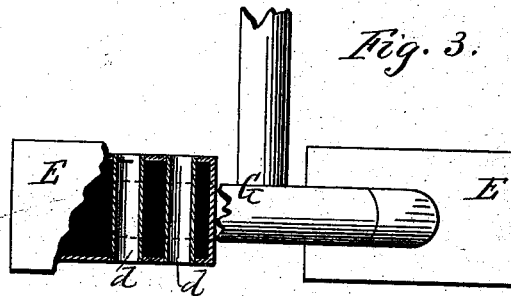
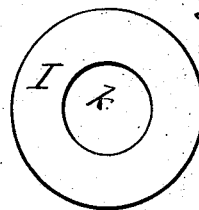


Fig. 5.



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UNITED STATES PATENT OFFICE.

JOHN E. WILBUR, OF ROCHESTER, NEW YORK.

LAMP-STOVE.

SPECIFICATION forming part of Letters Patent No. 382,579, dated May 8, 1888.

Application filed April 13, 1887. Serial No. 234,660. (No model.)

To all whom it may concern:

Be it known that I, JOHN E. WILBUR, of Rochester, in the county of Monroe and State of New York, have invented a certain new and useful Improvement in Lamp-Stoves; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the drawings accompanying this specification.

My improvement relates to heaters and cookers in which the fuel used is oil, gasoline, gas, or other liquid or fluid, the design being to furnish a small apparatus which can be used in any room.

To this end the invention consists in the combination and arrangement of parts, hereinafter described and definitely claimed.

In the drawings, Figure 1 is an elevation of the heating apparatus, showing two of the heating-drums and radiators. Fig. 2 is a plan of the drums with the radiators removed, but showing four drums, two being used for heating purposes and two for culinary purposes. Fig. 3 is a top plan view of the radiators, a portion of one of them being shown in horizontal section, the line of section being indicated by the dotted line *xx* in Fig. 1. Fig. 4 is an enlarged vertical section of one of the drums in line *yy* of Fig. 1. Fig. 5 is a plan view of the packing-disk that rests around the chimney of the lamp.

A indicates a frame, consisting of an elongated plate having open sockets, in which are placed lamps B B of any suitable kind, by which the heating action is produced.

C C are legs attached to the frame and extending up to considerable height and supporting the drums D. These drums are of the form shown in Fig. 4, each consisting simply of a cylinder open at the bottom, but having at the top a plate, *a*, in which is a central hole or opening, *b*, for the passage of heat upward into the radiators.

E E are the radiators mounted on top of the drums. The tops of the radiators are connected by a single pipe, G, and this pipe preferably has a T extending down between the radiators, then turning back at right angles, as shown, and extending to the chimney. The heat from the lamps passes up through the radiators, and

then escapes through the pipe, as above described.

The radiators may be of any desired kind, that shown in the drawings being simply a rectangular body with numerous cross-pipes *d d*, through which the cold air circulates, crossing the hot-air currents. The pipes *d d* preferably extend across the smallest diameter of the radiators, as shown in Figs. 1 and 3; but, if desired, they may extend across the longest diameter, as shown in Fig. 4, the same effect being produced in either case. The lower ends of the radiators have thimbles *ff* attached thereto, which rest removably on top of the drums D, by which means they can be removed at any time.

The apparatus can be constructed with several drums, a number of which have the radiators applied thereto for heating purposes, and the rest being uncovered and used for culinary purposes. Fig. 2 shows such an arrangement.

H is a hood of basket form, resting in each of the drums D. The closed end of the hood rests downward and has a central hole, *g*, adapted to receive the lamp-chimney *h*. The top of the hood is open, and the hood rests loosely in the drum, so that it can be raised and lowered therein, and it holds its position at any adjustment by the frictional contact or by any other suitable means.

I is a packing-plate for the lamp-chimney, consisting of a concavo-convex piece of sheet metal or other suitable material, with a central hole, *k*, to receive the chimney. This device rests in the bottom of the closed hood loosely, the convex side being upward.

The object of the adjustable hood H and packing-plate I is to close the passage around the lamp-chimney practically air-tight, or sufficiently so to force all the air that enters to pass through the lamp-chimney and not up around the outside of it; also, to enable the devices to fit chimneys of different sizes and shapes. To fit the chimney, the hood H is adjusted up or down till the packing-plate will fit closely around the chimney, and will also rest closely on the bottom of the hood. To insert or remove the lamp, it is simply raised over the frame A at the bottom, and the hole

in the bottom of the hood is large enough to allow the chimney to rise and fall freely.

In applying the lamp to place the packing-plate I will be raised with the chimney, and when the lamp is seated it will fall again to place on the bottom of the hood. It is desirable to compel all the air to pass through the chimney, as it thereby becomes more thoroughly heated, also increases the combustion, and the draft is not impeded by the entrance of cold air outside the chimney. The adjustment of the hood enables tight packing to be obtained, whatever may be the size of the chimney.

In addition to the above named advantages, the drums and radiators are so much elevated that a considerable portion of the lamp-chimneys are exposed and uncovered, and the surrounding space is illuminated as by common lamps, so that the double advantage of heating and illuminating the room is obtained.

Having described my invention, I do not claim, simply and broadly, a lamp-stove; but

What I claim as new, and desire to secure by Letters Patent, is—

In a heater, the combination of the drum D, open at its bottom and provided with the draft-opening *b* at its top, the radiator E, resting on the drum, the basket-shaped hood H, resting in the drum, open at its top, and provided with an opening, *g*, in its bottom to admit the lamp-chimney, and the convex packing-plate I, resting loosely in the hood and around the lamp-chimney, said hood being fitted to move vertically in the drum to allow it to be adjusted to contact with the packing-plate when fitted to the chimney, as shown and described, and for the purpose specified.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

J. E. WILBUR.

Witnesses:

R. F. OSGOOD,
WM. J. MCPHERSON.