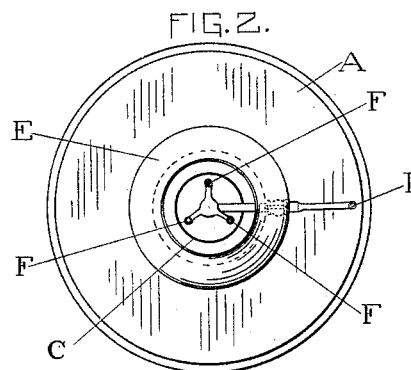
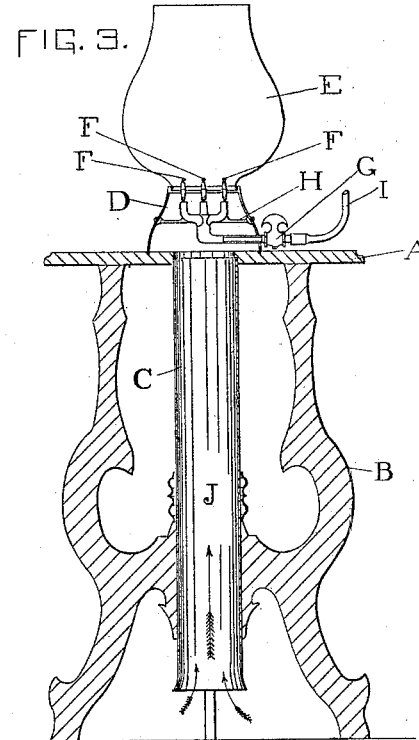
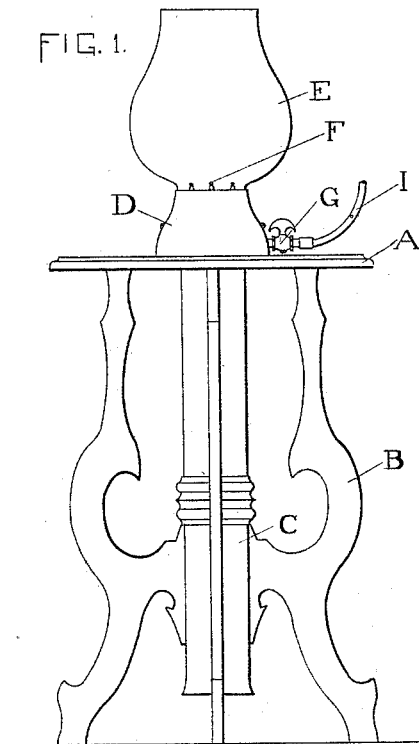


(No Model.)

L. T. WILCOX.
DEVICE FOR HEATING AND LIGHTING.

No. 458,669.

Patented Sept. 1, 1891.



WITNESSES:

Charles H. Brown
Edward J. Frost.

INVENTOR:

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UNITED STATES PATENT OFFICE.

LEWIS T. WILCOX, OF JACKSON, MICHIGAN.

DEVICE FOR HEATING AND LIGHTING.

SPECIFICATION forming part of Letters Patent No. 458,669, dated September 1, 1891.

Application filed May 31, 1890. Serial No. 353,737. (No model.)

To all whom it may concern:

Be it known that I, LEWIS T. WILCOX, a citizen of the United States, residing at Jackson, in the county of Jackson and State of Michigan, have invented certain new and useful Improvements in Devices for Heating and Lighting; and I do hereby declare the following to be a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings and the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in a device for heating and lighting; and it consists in the construction, combination, and arrangement of parts, as fully hereinafter set forth and claimed.

The objects of the improvements hereinafter described are to produce an inexpensive, convenient, efficient, and portable device for heating and lighting with the same fuel, at the same time, and at the single expense of either; and the device may be so constructed as to be utilized as a useful article of furniture when not serving in another capacity, as will be more fully hereinafter described.

Referring to the drawings, in which like letters of reference refer to like parts in the several figures, Figure 1 is a vertical side elevation of my improved device for heating and lighting. Fig. 2 is a top plan view of the same. Fig. 3 is a vertical central longitudinal section through the same.

A is a section of wood or other suitable material, and which may be of any desired plan, the plan here shown being circular, centrally apertured, and resting upon and secured to a series of supports or legs B, which may likewise be of any suitable material and design, and C is an air-tube, constructed of any suitable material, secured between the legs B, the bottom end supported at a little distance from the floor and the top end secured in the central aperture of the top A.

D is an annular casing, constructed of any suitable material, but preferably of brass or other suitable metal, resting upon and detachably secured to the top A, and E is a

transparent chimney, preferably constructed of glass, resting upon and detachably secured to the casing D.

J is an air-passage within the tube C, the upper end communicating with the air-chamber within casing D and chimney E and forming a complete air-passage through the parts.

F is a series of suitable gas-burners arranged and secured within the casing D by a series of braces H or by other suitable means in such a manner as to not obstruct the air-passage, the gas being supplied through the stop-cock G and tube I. The stop-cock and tube immediately connecting with the burner F are preferably constructed of brass; but the external portion of the tube I may be constructed of metal or of any suitable flexible material and connected with the supply-pipe.

I do not wish to be confined to any particular material, design, or manner of construction, for it is obvious that is unimportant, the invention consisting in the construction of a suitable portable supporting-stand provided with an air-tube and means whereby the same is vertically secured to the stand, its lower end near the floor and its upper end communicating through an aperture in the top of the stand with a transparent chimney and an intermediate inclosed gas or oil burner so constructed that the air may freely circulate through all the parts. The light is transmitted through the transparent chimney. The air-supply for the burner and the cold air are taken from the floor and heated and passed into the room. It is not necessary that the air-passage be "vertical" within the strict meaning of the word, as that is impracticable; but it is necessary to have one end sufficiently near the floor to attract the cold air and the other end elevated to induce the rapid outward passage of the heated air. It is not essential that the air-passage be circular in plan, nor that it be of a uniform size, for it is obvious that it may be larger in some portions than in others without materially affecting the results or purposes for which it is intended. I preferably construct the supporting-stand of the form shown and support or detachably secure the inclosed burner and chimney thereon, and when the device is not

required for the above purposes they may be removed and the stand may be utilized as a useful article of furniture.

The parts being thus constructed and arranged, they are intended to operate as follows: The burner being lighted, the air within the casing and chimney is rapidly heated and rises and passes out of the top, a new supply of air being admitted through the air-passage J, the cold air in the apartment always being passed through the tube and efficiently heating the room by circulation, and the light is transmitted through the transparent chimney, rendering simultaneously an efficient light and with the limited consumption of fuel required for either alone.

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

1. In a device for heating and lighting, a portable supporting-stand consisting of the top A and legs B and provided with an unobstructed air-passage J, the lower end of which

extends to near the floor of the apartment and its upper end secured to and communicating with an aperture in the top of the stand, substantially as described.

2. The combination, with a portable supporting-stand constructed with an air-passage extending from near the floor of the apartment to and connected with an aperture in the top of the stand, of a transparent chimney and an intermediate inclosed burner detachably supported upon said stand and communicating with the air-passage and chimney and constructed and arranged in such a manner that the air may freely circulate through the parts, substantially as described, for the purpose specified.

In testimony whereof I affix my signature in the presence of two witnesses.

LEWIS T. WILCOX.

Witnesses:

CHARLES H. BROWN,
ENOCH BANCKER.