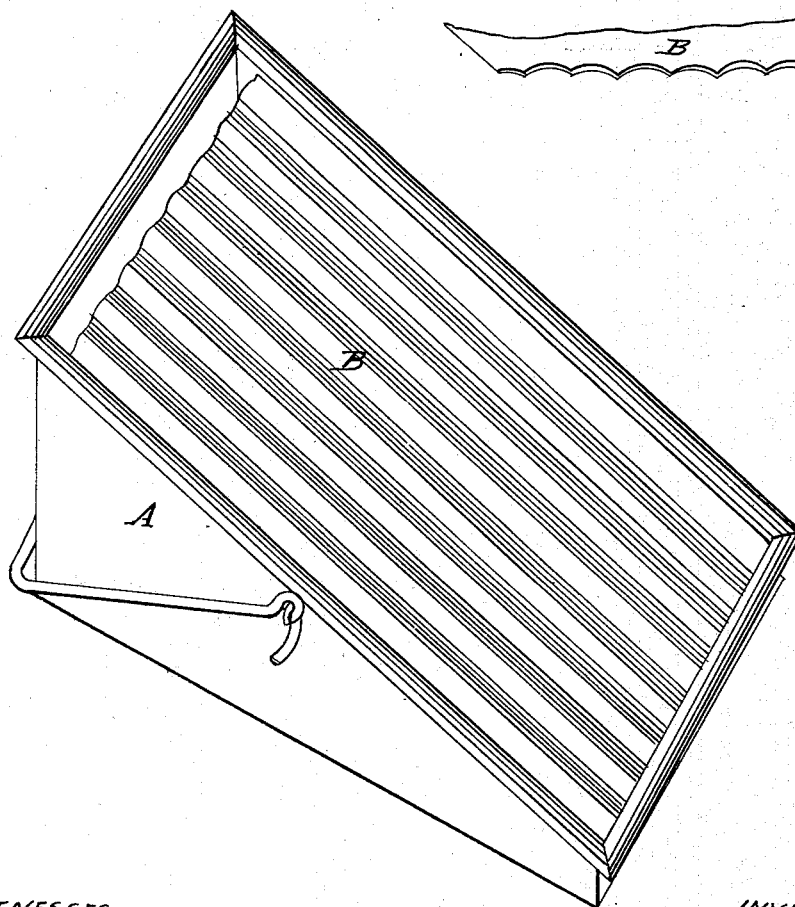
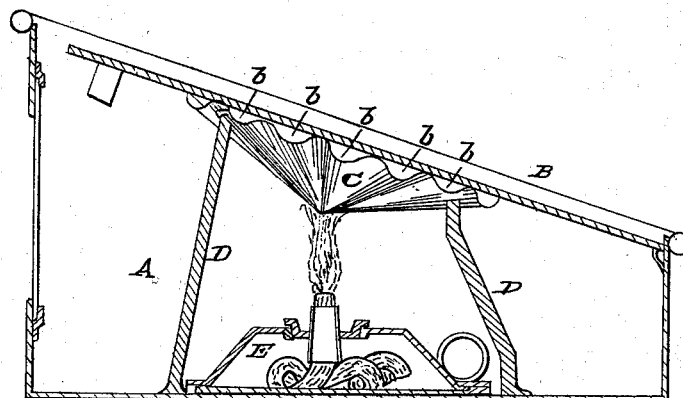


A. PALMER.
Foot Warmer.

No. 49,433.

Patented Aug. 15, 1865.



WITNESSES
Leaves Palmer
A. W. Palmer

INVENTOR
Alonzo Palmer

UNITED STATES PATENT OFFICE.

ALONZO PALMER, OF HUDSON, MICHIGAN.

FOOT-WARMER.

Specification forming part of Letters Patent No. **49,433**, dated August 15, 1865.

To all whom it may concern:

Be it known that I, ALONZO PALMER, of the village of Hudson, in the county of Lenawee and State of Michigan, have invented a new and useful Improvement in Lamp, Stove, and Lantern Combined; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Similar characters refer to like parts in the several figures.

Figure 1 is a perspective view; Fig. 2, a longitudinal vertical section; Fig. 3, a perspective end view of foot-plate.

A is a case or box of wood or metal, or both combined, made in any convenient form, supplied at one or more of its sides with glass or other transparent openings to emit the light from the lamp in the same, thereby making a convenient lantern, and upon which said case or box foot-plate B is supported, and in which is lamp E, constructed in any convenient form and secured to the bottom of said case or box, and radiator C, supported by standards D D attached to the bottom of case A.

Radiator C is of a semi-spherical form, plain

or corrugated, attached to the bottom of case A by standards D D, (or any necessary number of standards or supports,) sustaining the same directly above lamp E, and between said lamp E and foot-plate B, for the purpose of equalizing the heat on said foot-plate B.

B is a fluted or corrugated metallic foot-plate on top of box A, directly above radiator C, but independent and disconnected from the same, the corrugated openings between foot-plate B and radiator C, as represented by *fff* in Fig. 2, allowing the heated air to pass off freely from radiator C, thereby equalizing the heat perfectly on the lower surface of said foot-plate B, the corrugation or fluting also serving to strengthen said plate.

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

The arrangement of the corrugated plate B with the frame A, radiator C, and lamp E, the several parts being constructed and used in the manner and for the purpose herein specified.

ALONZO PALMER.

Attest:

LORENZO PALMER,
W. W. PALMER.