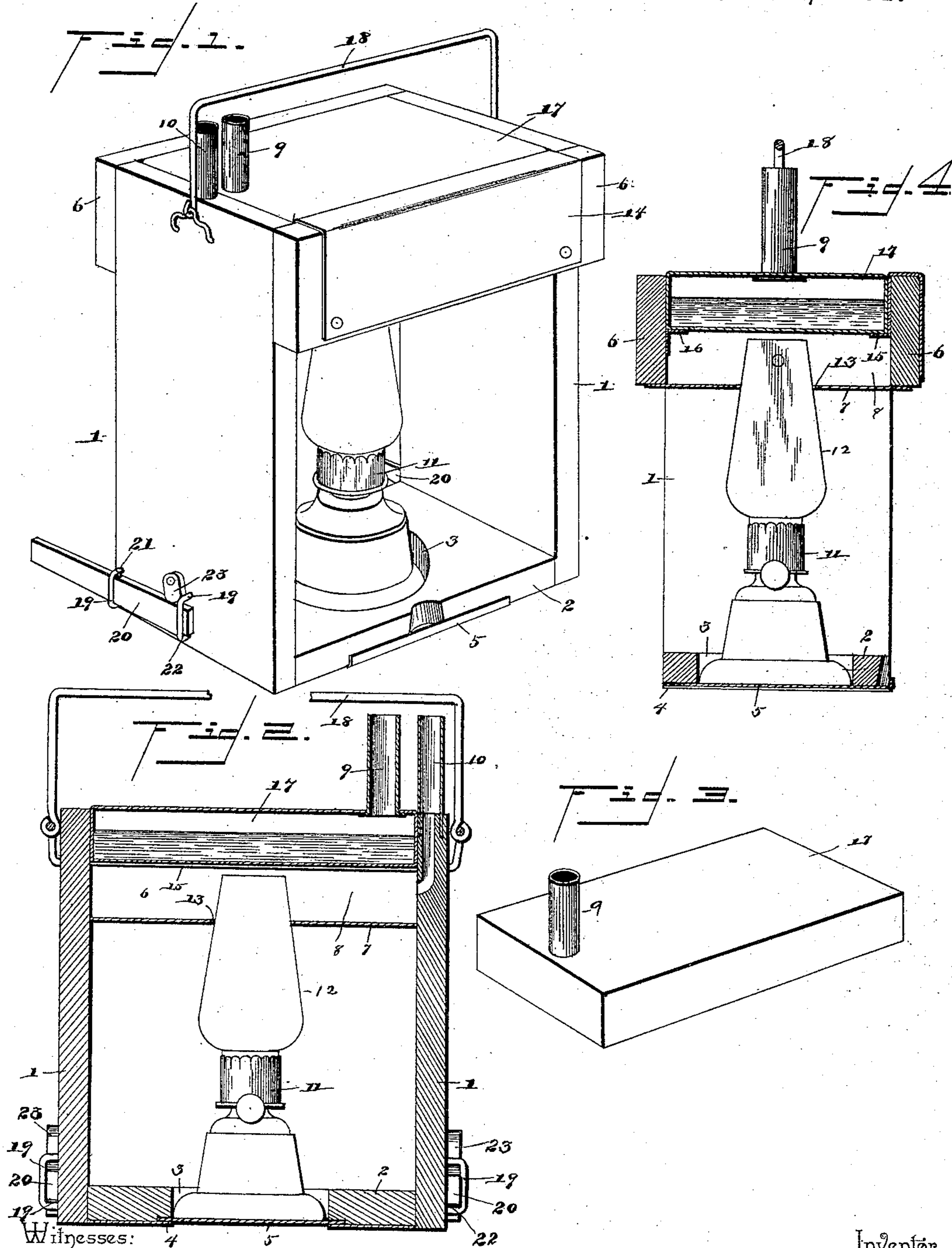


(No Model.)

W. A. RANDLE.
FOOT WARMER.

No. 444,269.

Patented Jan. 6, 1891.



Witnesses:

Samuel Ker
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UNITED STATES PATENT OFFICE.

WILLIAM A. RANDLE, OF OAKLAND, ALABAMA.

FOOT-WARMER.

SPECIFICATION forming part of Letters Patent No. 444,269, dated January 6, 1891.

Application filed May 19, 1890. Serial No. 352,383. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. RANDLE, a citizen of the United States, residing at Oakland, in the county of Lauderdale and State of Alabama, have invented a new and useful Foot-Warmer, of which the following is a specification.

This invention relates to foot-warmers for use in vehicles while traveling or in rooms where the occupant is seated at a distance from the stove or other warming device.

The objects and advantages of the invention, together with the novel features thereof, will be particularly pointed out in the following description and in the appended claims.

In the drawings, Figure 1 is a perspective of a foot-warmer constructed in accordance with my invention. Fig. 2 is a vertical longitudinal section. Fig. 3 is a detail in perspective of the water-box, and Fig. 4 is a transverse vertical section.

Like numerals of reference indicate like parts in all the figures.

The frame-work of the warmer comprises two opposite vertical end standards 1, connected at their lower ends by a horizontal base-piece 2, provided at its center with a circular opening 3 and at each side of the opening with a transverse way 4, in which there is mounted for sliding a removable plate 5, which when in position covers the opening 3.

The upper ends of the standards 1 at their opposite sides are connected by horizontal side bars 6, the lower edges of said side bars being connected by a heating-plate 7, the side bars and heating-plate combining to form a compartment or chamber 8, which communicates with the outer atmosphere by means of a pipe 9, mounted in one of the standards 1 and projecting above the same, as shown.

11 represents any ordinary lamp, the oil-reservoir of which is designed to fit the circular opening 3 and rest upon the slide 5, which is removed from over the opening when the lamp is introduced upwardly through the opening or removed therefrom for the purpose of filling, trimming, &c. Upon the burner of the lamp is supported the chimney 12, the upper end of which passes through and beyond a circular opening 13, formed in the heating-plate 7, and therefore extends well into the compartment 8, into which it discharges

the heat from the burner, together with any smoke, odors, &c., to be afterward carried up by the pipe 9, heretofore described.

One of the side bars 6 has mounted thereon a sheet-metal covering or facing 14 for the purpose of protecting the side bars from marring and becoming worn away by the feet of the user. The inner edge of this metal facing is bent at a right angle to the side bar and itself, thus forming a ledge or shelf 15, and opposite the same at the opposite side bar there is located a corresponding shelf 16.

Mounted upon the shelves 15 and 16, which are some distance above the heating-plate 7, is a water-box 17, of oblong shape, which box fits the chamber 8 and is supported by the shelves immediately above and in proximity to the lamp-chimney. The box 17 is provided with a chimney 9, by which water may be introduced into the box, and through which the vapor generated by the heat may escape.

The device is carried by means of a bail or handle 18, the terminals of which are pivotally connected to the standards 1.

19 represents opposite pairs of keepers located upon each of the standards 1 at their outer sides, one keeper of each pair being located a slight distance above the other, and in each pair of said keepers there is mounted loosely a bar 20, provided upon its upper edge with a stop-pin 21, adapted to limit the movements of the bar in the keepers by coming in contact with either one of the same in accordance with the direction of its movement. The rear lower corner of each of the bars is provided with a recess forming a shoulder 22, which drops down in front of the rear keeper when the bar is slid outward, as shown, and prevents the said bar from moving in an opposite direction. Above this bar there is pivoted a binding-button 23, which when the bar is slid outward may be bound upon the same and will serve to prevent any accidental displacement of the bar. By means of these bars it will be apparent that a wide base is provided for the warmer, whereby the same is not liable to be accidentally knocked over by the feet. The bars, being inclined, as shown, it will be observed, are in the line of pressure by the feet of the occupant, and therefore more readily serve as a brace.

The box being filled with water and the

lamp lighted, said water is warmed and radiates a gentle heat therefrom without danger of burning the apparel of the person.

Having thus described my invention, I claim—

1. A foot-warmer frame provided at its sides with opposite pairs of loops or keepers, one loop or keeper of each pair being located above the other, brace-bars loosely mounted in the keepers and adapted to be projected beyond the wall of the warmer, and means for locking the bars in position, substantially as specified.

2. The combination, with the warmer-frame, the opposite standards of which are provided with opposite pairs of keepers, one keeper of each pair being located above the other, of sliding bars mounted in the keepers, having their rearends provided with shoulders adapted to drop behind said keepers and their upper edges provided with stop-pins for limiting the movements of the bars, and binding-buttons arranged above the bars, substantially as specified.

3. The combination, with the frame or casing having the opening 3 in its bottom, the opposite ways 4, and the removable plate 5, mounted in the ways, of the lamp 11, adapted to be withdrawn downwardly through the

opening and having the chimney 12, the side bars 6, and heating-plate 7, connecting the same and located between the standards 1 and provided with an opening for the chimney and of a size agreeing with the tank, the tank supported between the side bars and above the heating-plate and provided with a pipe, and a pipe leading from the space below the tank, substantially as specified.

4. The combination, with the opposite standards 1, the base 2, and the lamp secured therein, of the side bars connecting the standards, the heating-plate connecting the side bars and having a central opening for the lamp-chimney, the pipe 10, leading from the compartment or chamber formed by the side bars and heating-plate, and the removable oblong water-tank supported above the plate and combining therewith to form a heating-space extending entirely under the tank, said tank being provided with an escape-pipe, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIAM A. RANDIE.

Witnesses:

M. MALONE,

J. A. NEAL.