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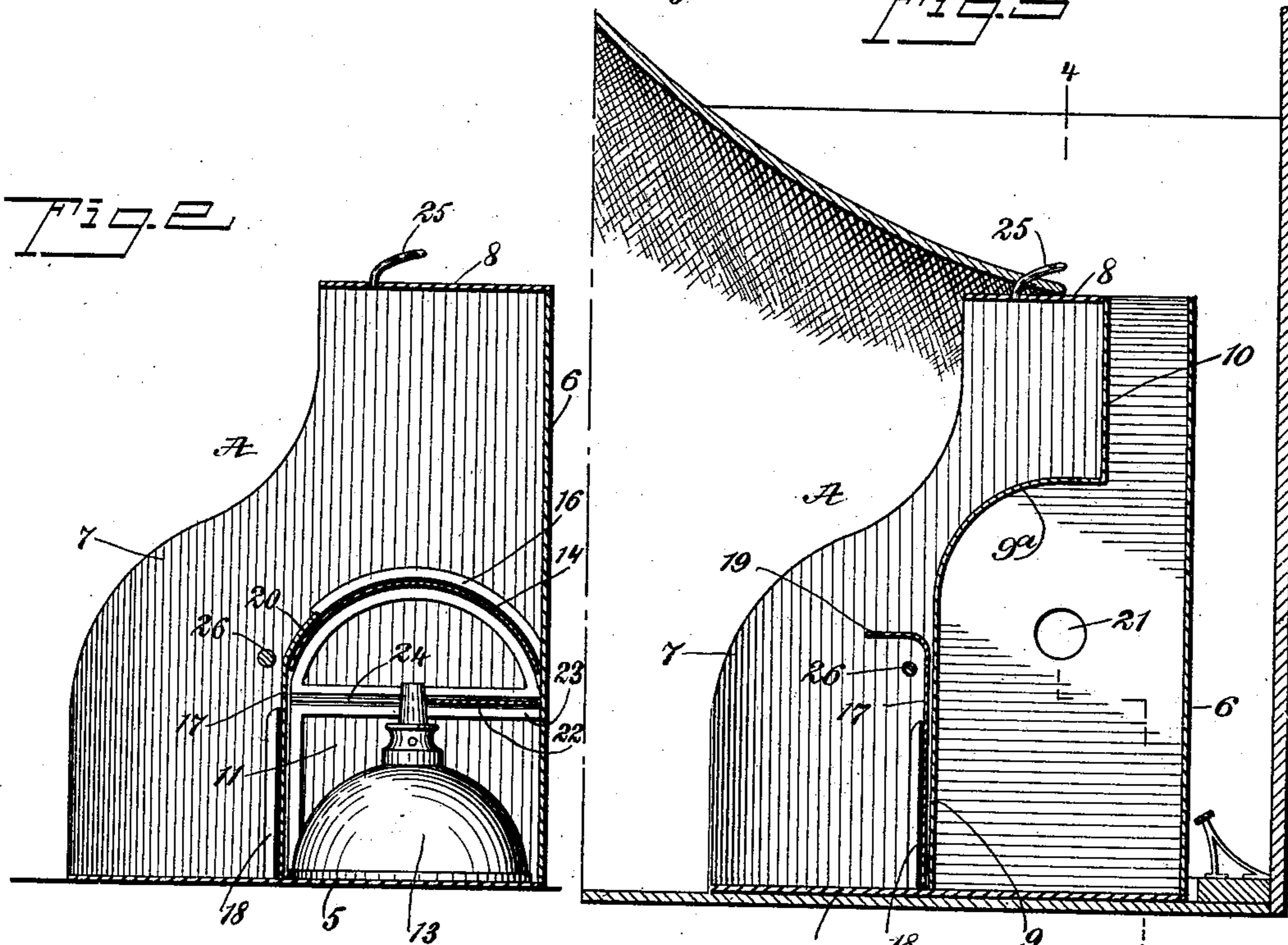
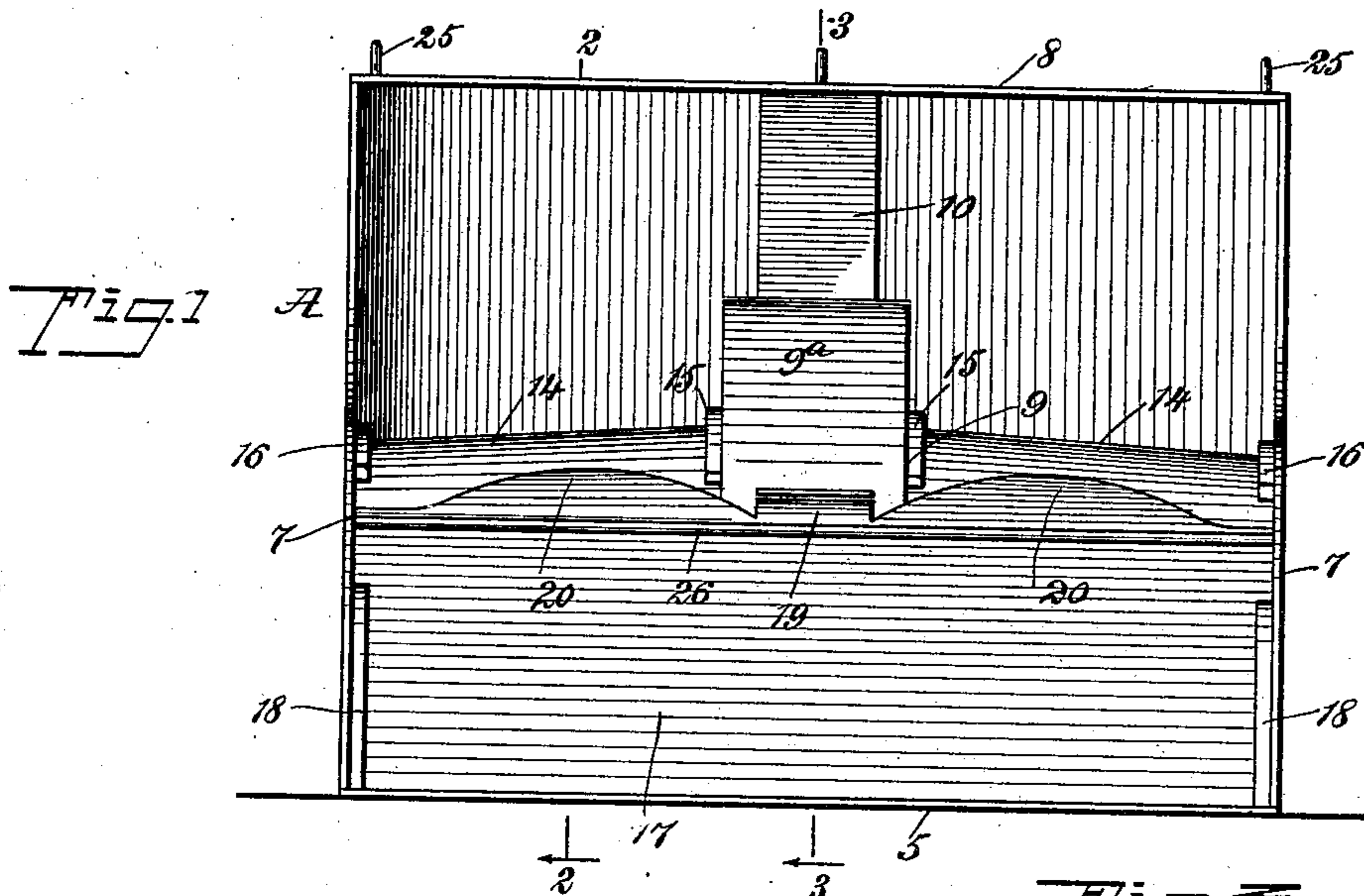
Patented June 3, 1902.

J. P. McABEE.
FOOT WARMER.

(Application filed Feb. 24, 1902.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES:

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INVENTOR

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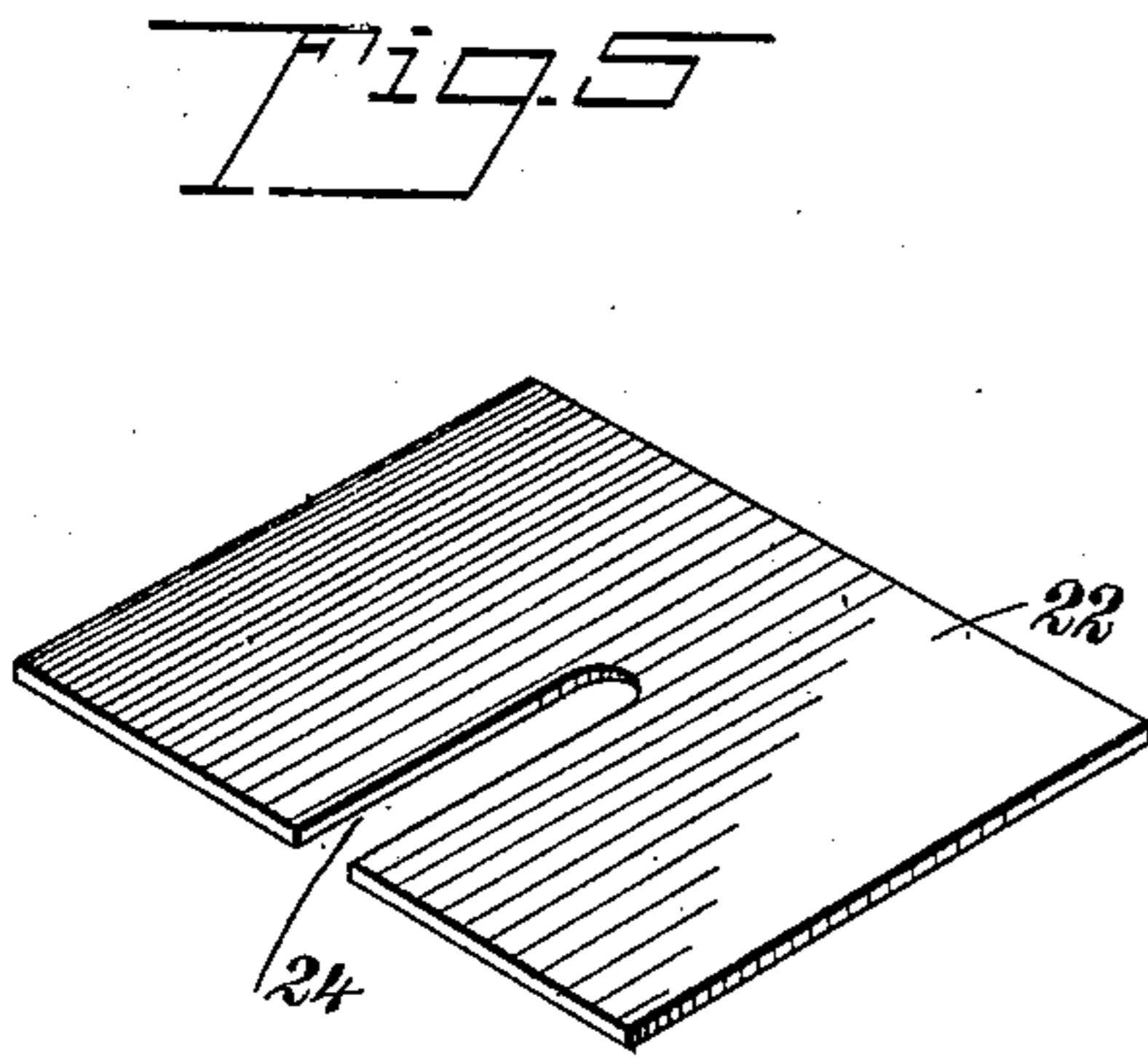
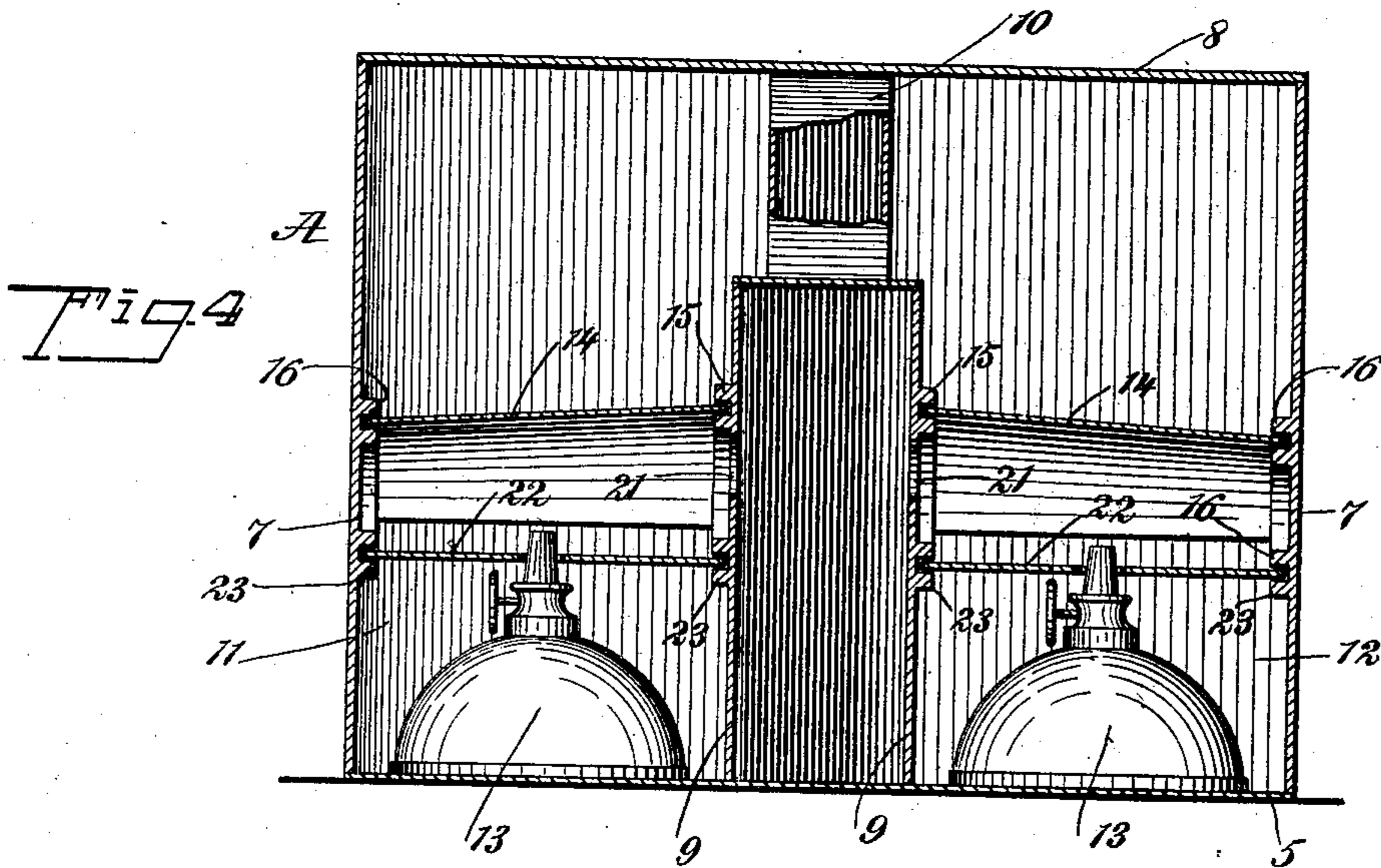
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UNITED STATES PATENT OFFICE.

JOEL P. MCABEE, OF PIEDMONT, ALABAMA.

FOOT-WARMER.

SPECIFICATION forming part of Letters Patent No. 701,756, dated June 3, 1902.

Application filed February 24, 1902. Serial No. 95,284. (No model.)

To all whom it may concern:

Be it known that I, JOEL P. MCABEE, a citizen of the United States, and a resident of Piedmont, in the county of Calhoun and State of Alabama, have invented new and useful Improvements in Foot-Warmers, of which the following is a full, clear, and exact description.

My invention relates to improvements in foot-warmers especially adapted for use in buggies and vehicles in order to keep the legs and feet of the occupant warm beneath the lap-robe, although the device may be employed in a variety of other places.

The object of the invention is the provision of a simple, compact, and cheap device which may be placed beneath a robe and in a buggy or other vehicle and at the same time make provision for the burning of one or more lamps and the radiation of heat from the structure. The device may also be adjusted to enable lanterns of any suitable pattern to be used in the chambers thereof in lieu of lamps.

With these ends in view the invention consists in the novel construction, arrangement, and combination of parts, which will be hereinafter fully described, and the actual scope thereof will be defined by the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation of a foot-warmer embodying my invention. Figs. 2 and 3 are vertical cross-sectional views taken in the planes indicated by the dotted lines 2 2 and 3 3, respectively, of Fig. 1. Fig. 4 is a vertical sectional elevation at right angles to the planes of Figs. 2 and 3 and indicated by the dotted line 4 4 of Fig. 3, and Fig. 5 is a detail perspective view of a locking-plate for one of the lamps.

The casing A of my improved foot-warmer consists of the bottom 5, the back 6, the ends 7, and the top 8, all of which are joined together in any approved way. These parts comprising the casing may be of metal or any other appropriate material. The ends 7 of the casing are tapered in the fanciful way represented by Figs. 2 and 3, and the top 8 is therefore of less width than the bottom 5 of the casing. The casing is thus closed on all

sides thereof, except at the front, thus enabling the feet of the owner or occupants of the vehicle to be easily thrust into the upper part of the casing.

9 designates a central flue, which is located in the casing equidistant from the ends 7 thereof, and the upper part of this flue is contracted or reduced in order to provide the chimney 10, which is extended or carried through the top 8 of the casing. The employment of this chimney and its extension within the casing serve to divide the latter into side compartments, which are indicated at 11 12, and these compartments are adapted to receive the appliances for heating the device. The heating appliances are indicated at 13 in the form of oil-burning lamps, which are adapted to be placed on the bottom 5 and to be confined within the side compartments, so as to be disposed on opposite sides of the central flue 9. Each compartment 11 or 12 is closed at its upper portion by means of a hood 14, which is curved in cross-section, as indicated more clearly by Fig. 2 and which has its edge portions slidably fitted in coincident curved guideways 15 16, the same being provided on the faces of the walls of the flue 9 and upon the end walls 7 of the casing, as shown more clearly by Figs. 2 and 4.

It will be noted that the compartments 11 12 are closed by individual hoods, which are placed in the coincident guideways on the casing and the flue therein; but I provide a single front plate 17, which serves to close both of the side compartments 11 12. This front plate 17 extends entirely across the casing from side to side thereof, as shown by Figs. 1 to 3, inclusive, and the end portions of this front plate are received in vertical guideways 18, the latter being provided on the end walls 7 of the casing. This front plate is provided at its middle portion with an outwardly-extending thumb-piece 19, and said plate is, furthermore, provided with the inwardly-curved flanges 20, the latter being provided on opposite sides of the thumb-piece 19 and curved in an opposite direction thereto, so as to fit snugly over the curved hoods 14 to the side compartments 11 12, reference being had more particularly to Fig. 2. It will thus be seen that the side compartments are closed by the hoods and the front plate in con-

nection with the casing and the central flue, but the draft necessary to support combustion at the burners of the lamps 13 or other heaters is obtained through the draft-openings 21, which are provided in the side walls of the flue at points above the burners and just below the hoods 14. (See Figs. 3 and 4.)

In order to hold the lamps or other heaters in place, I have provided the plates 22, the same being arranged in horizontal positions within the side compartments and fitting slidably in horizontal guideways 23, the same being provided on the walls 7 of the casing and the walls of the flue 9. (See Figs. 2 and 4.) These holding-plates are provided with the slots 24, which open through one edge of the plates, and these slots are adapted to receive the burners of the lamps or other heaters, thus preventing the lamps from sliding within the compartments 11 12.

The top 8 of the casing is provided with a series of hooks or other attaching devices, (indicated at 25,) these hooks being preferably arranged in a horizontal row at one side of the outlet of the extension 10 of the central flue 9.

26 designates the stay-rod, which is fastened in the end walls 7 of the casing and is arranged across the upper portion of the front plate 17, this rod serving to prevent the upper free end of the plate from being bent accidentally—as, for example, by pressure of the feet when they are placed in the casing of the warmer.

In using my improved foot-warmer the front plate 17 is withdrawn by lifting it from the guideways 18. The lamps are placed in the side compartments, so that the burners will be received in the slots of the plates 22. The lamps are then lighted and the front plate 17 is lowered to the closed position. The draft passes from the side compartments through the openings 21 and out through the chimney, and the walls of the structure are heated by the lamps. The entire device may be placed in the body of a buggy or other vehicle, as represented by Fig. 3, and the edge portion of a lap-robe may be attached to the hooks 25, also as shown by Fig. 3, thus holding the robe in place without interfering with the draft.

If desired, the owner of the device may employ one or more lanterns in lieu of the lamps. To do this, it is necessary to remove the front plate 17 and the hood 14. The lamps 13 and their holding-plates 22 may now be withdrawn from the side compartments, after which the lanterns of any suitable kind may be placed inside of the compartments 11 12.

By reference to Fig. 3 it will be seen that the central flue 9 has its top curved at 9^a, so as to afford a foot-rest, and this foot-rest is available for use when the device is heated by lanterns as well as by the lamps herein shown and described.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A foot-warmer comprising a casing having an open front side, a central flue disposed within said casing and dividing the same into side compartments which have communication with said flue, hoods for the side compartments, and means for closing the front portions of said compartments.

2. A foot-warmer comprising a casing having the side compartments, a vertical flue disposed between the side compartments and separating them one from the other, ports or openings in the sides of said vertical flue and establishing communication between said flue and said compartments, and a front plate fitted removably in the casing and closing the front portions of both side compartments.

3. A foot-warmer comprising a casing divided to form side compartments, and an intermediate vertical flue in communication with said compartments, suitable heaters in the side compartments, and hoods fitted removably in the casing, on opposite sides of the flue, and closing the upper portions of side compartments.

4. A foot-warmer comprising a casing having side compartments, a central flue in communication with the compartments, and a front plate fitted removably in guides provided within the casing, said flue having a curved portion adapted to form a foot-rest which is exposed outside of the compartments.

5. A foot-warmer comprising a casing, side compartments, each closed at its upper part by a removable hood, a front plate fitted removably within the casing and extending across the side compartments, a central flue communicating with the compartments and opening through the top of the casing, and means provided on the casing at one side of the flue-opening for the attachment of a robe.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOEL P. MCABEE.

Witnesses:

H. C. HENDERSON,
Y. C. HARRIS.