

(No Model.)

F. J. LITTLE.
PLATE FOR VAPOR STOVES.

No. 483,932.

Patented Oct. 4, 1892.

Fig. 1.

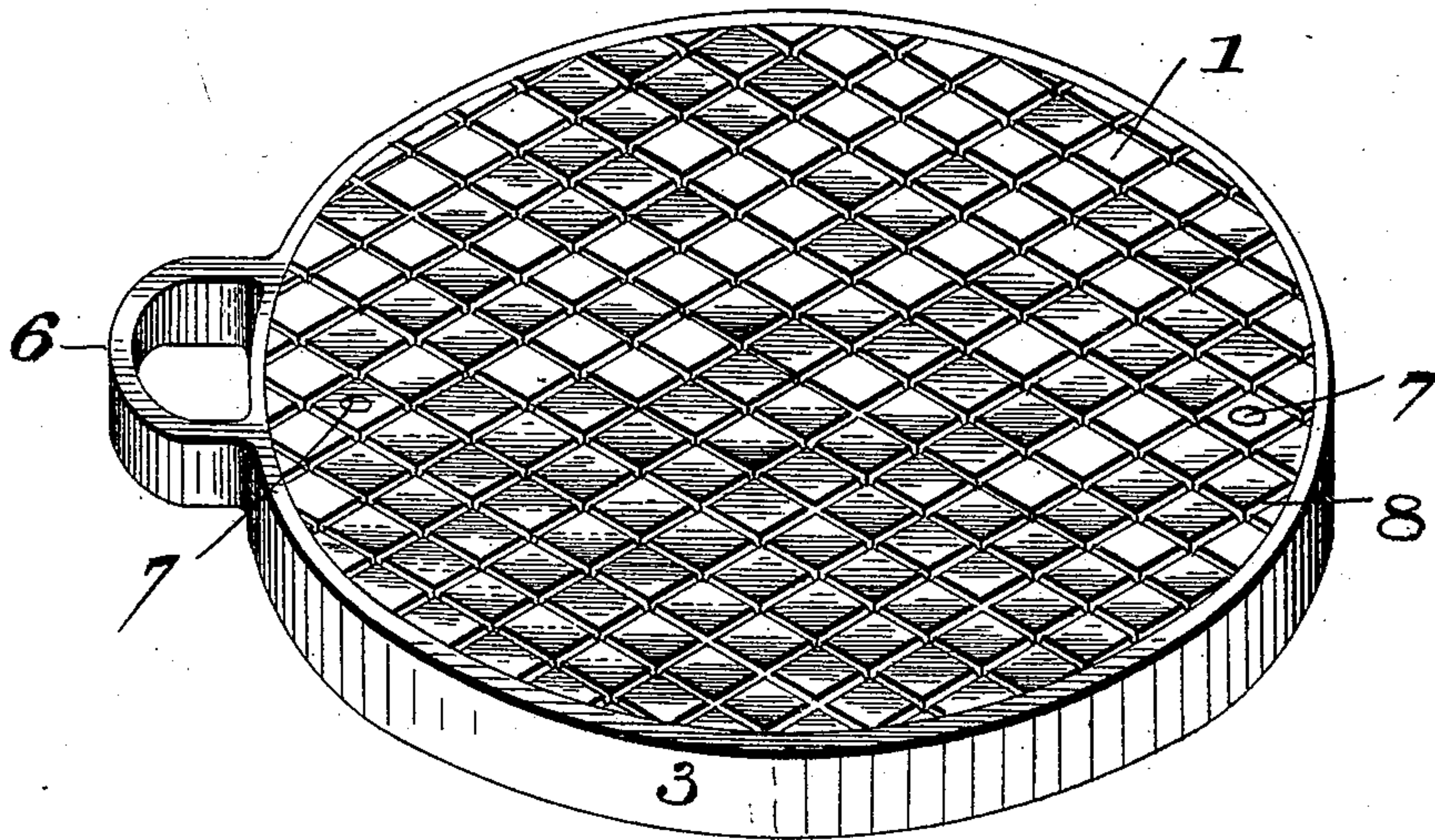
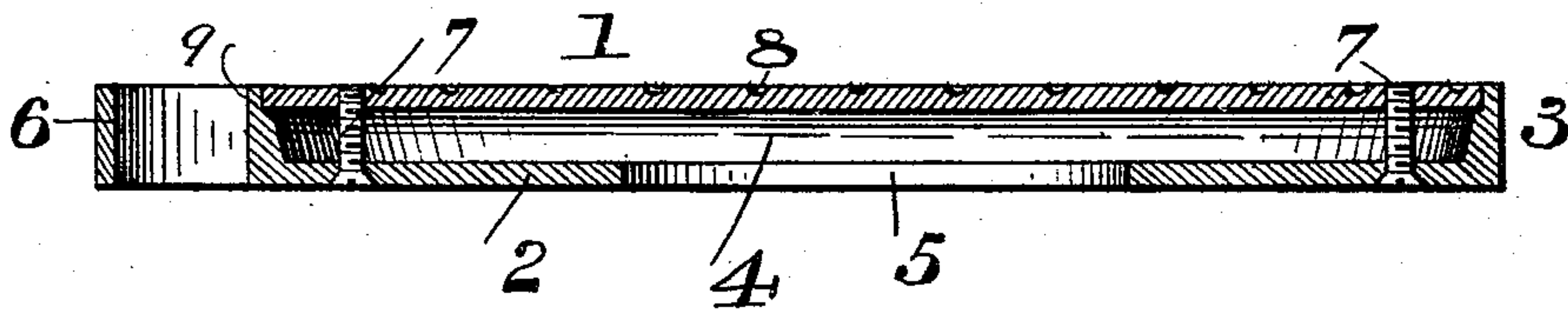


Fig. 2.



WITNESSES
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UNITED STATES PATENT OFFICE.

FRANK J. LITTLE, OF PORTLAND, MICHIGAN, ASSIGNOR OF ONE-HALF TO
JOHN B. DINSMORE, OF SAME PLACE.

PLATE FOR VAPOR-STOVES.

SPECIFICATION forming part of Letters Patent No. 483,932, dated October 4, 1892.

Application filed February 20, 1892. Serial No. 422,226. (No model.)

To all whom it may concern:

Be it known that I, FRANK J. LITTLE, a citizen of the United States, and a resident of Portland, in the county of Ionia and State of Michigan, have invented certain new and useful Improvements in Plates for Vapor-Stoves; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to
10 which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to devices to be used
15 in connection with vapor and gas stoves whereby a great saving is effected in the fuel, while at the same time articles or objects are more efficiently heated or cooked.

In the ordinary vapor and gas stoves there
20 is a great waste of fuel owing to loss of heat by radiation, which renders the use of such stoves very expensive.

The object of my invention is to provide a plate adapted to be placed over a vapor or
25 other burner, whereby the heat from the latter is utilized to the best advantage.

The invention consists, essentially, of a hollow plate having an opening or aperture upon one side, as hereinafter fully set forth
30 and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a plate constructed according to my invention. Fig. 2 is a central sectional view of the same.

35 In the said drawings, the reference-numeral 1 denotes the upper side, 2 the lower side, and 3 the peripheral rim of the plate,

with an intervening space 4. The lower side 2 is provided with a central opening 5, and the rim is formed with a loop 6, by which it
40 may be suspended from a nail or hook when not in use. The rim is also provided with an annular groove 9 to receive the top plate. The plate is preferably made with the rim and bottom of a single piece of metal and
45 the top secured thereto by means of screw-bolts 7, so that said top can be removed and a tea-kettle or other vessel placed upon the bottom with the frame of the burner impinging upon said vessel. The top 1 may also be
50 formed with a series of intersecting grooves or corrugations 8.

The operation will be readily understood. The plate is placed upon the stove with the opening 5 immediately above the burner, so
55 that the flame thereof will impinge against the bottom of the side 1 and the heat be confined within the space 4, thereby effecting a great saving in fuel.

Having thus described my invention, what
60 I claim is—

The combination, with the bottom 2, having a central opening and provided with a rim 3, having annular groove 9 and loop 6, of the corrugated removable top 1, connected to said
65 bottom by screws 7, substantially as described.

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

FRANK J. LITTLE.

Witnesses:

WILLIAM GADLEY,
ALBERT F. MOREHOUSE.