

1,245,408.

H. VONEIFF.
TOP PLATE FOR GAS STOVES.
APPLICATION FILED JUNE 2, 1916.

Patented Nov. 6, 1917.

Fig. 2.

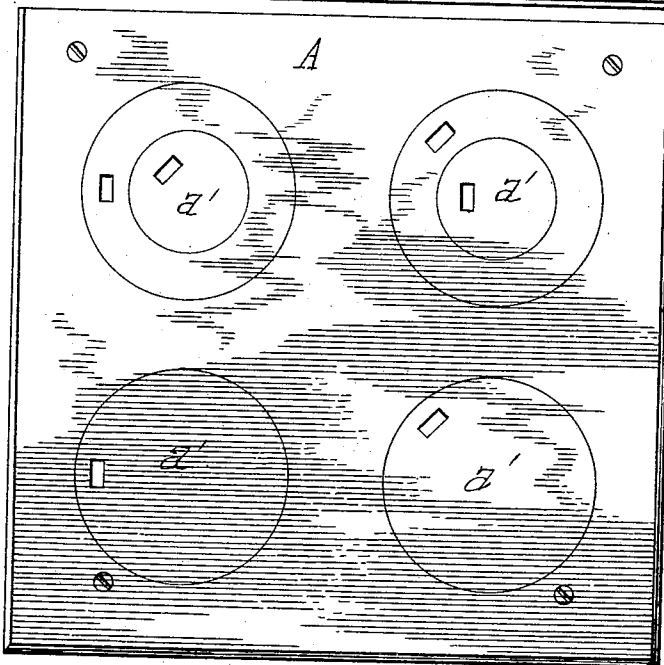
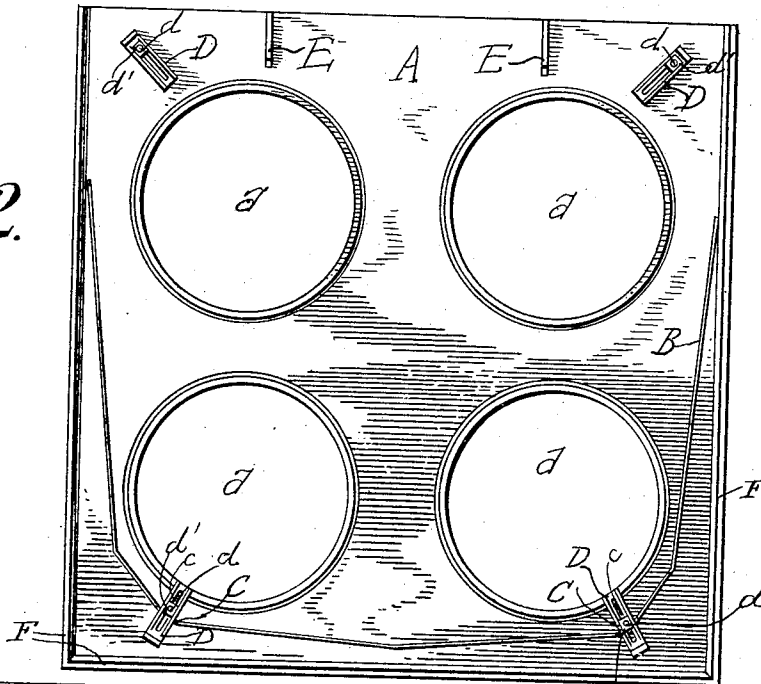


Fig. 3.

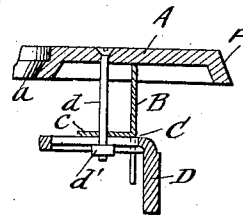


Fig. 1.

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TOP PLATE FOR GAS-STOVES.

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Specification of Letters Patent.

Patented Nov. 6, 1917.

Application filed June 2, 1916. Serial No. 101,278.

To all whom it may concern:

Be it known that I, HENRY VONEIFF, citizen of the United States, residing at Baltimore, State of Maryland, have invented certain new and useful Improvements in Top Plates for Gas-Stoves, of which the following is a specification.

My invention has relation to improvements in adjustable covers or top plates having utensil holes therein for gas stoves, ranges, and other stoves to which it may be adapted, and it has for its object the utilization of the heat and conducting the same to the rear holes from the forward holes in such a manner that the heat cannot be diffused and spread in various directions and wasted, as in other stoves constructed in the ordinary manner, where adjustable covers or tops of this construction are not used. With these and other objects in view the invention consists in the novel construction and combination therewith of a narrow adjustable metallic guard or carrier for the heat to the aforesaid rear holes or openings.

I have fully and clearly illustrated my invention in the accompanying drawings in which—

Figure 1 is a top or plan view of the device when in use, and

Fig. 2 is an inverted view of the device.

Fig. 3 is a cross section through a fragment of the device showing the securing means thereof.

Similar letters of reference in the drawings denote similar parts throughout the several figures.

In the drawings, A designates an adjustable stove top or cover plate provided with the usual stove-holes *a, a, a, a*, and lids *a', a', a', a'*. B designates a metallic narrow band or heat-guard formed of sheet iron or other suitable metal. In the lower edge of this band or heat-guard are cut out notches C at suitable distances apart, and formed from these notches, are the same number of tongues *c* which are bent over at right angles to the band or heat-guard so as to project inwardly from said band or heat-guard. The plate A is held in place on top of the stove by a series of slidable clamps D secured in adjusted position by bolts *d* carried by the plate, and nuts *d'* screwed on said bolts. The clamps have slots through which the bolts pass, and upon backing the nuts, the clamps may be slid forward or

back to engage the top of the stove, whereby the plate is held in place thereon. The clamps are located beneath the plate adjacent to the front and rear portions thereof, and the front clamps also serve to secure the heat deflector or guard B in place beneath the plate, the bolts of said clamps passing through the tongues *c*, and the clamps being slidable in the notches C.

It will be readily observed that these tops or covers can be constructed to fit any size gas cooking stoves or ranges. Upon the underside and at the edge of the cover are cast lugs E, E.

It is a well known fact that in the ordinary gas range having an open top of grille work or grating the heat is wasted, which heat is confined and utilized by my arrangement as hereinbefore mentioned. It will be understood that this top over the flame would naturally spread the flame in all directions. Now that the flame may not spread forward and the flame and heat may be directed from the front to the rear ones, I have employed a cheap and an effective arrangement hereinbefore described. In order to insure complete combustion and a perfect distribution of heat from the forward to the rear burners an opening is provided at the back, which forms a perfect draft from front to rear. This result is obtained by casting the top with a downturned marginal flange F on the sides and front which leave the necessary opening at the back between the top and the frame of the stove upon which the top rests. For adjusting the top to the stove I have provided slidable clamps D which abut against the frame of the stove and are made fast by tightening the bolts. Thus the top when properly adjusted will not slip out of place, and it can be lifted off the stove at pleasure.

In my device as constructed, vessels cannot by any possibility tip over and spill out the contents, as would be the case with the uneven grating of the gas range. It replaces the uncleanly grating, and saves gas, two burners doing the work of four, one when turned down low keeps the food hot until served, prevents said burners from clogging, eliminates the frequent cleaning of the grating, burners and utensils, and prolongs the life of the range.

When the plate A is in place on the stove, it covers the opening in the stationary top

of the latter, the flange F and the lugs E seating on said top, and the clamps D being adjusted to engage the inner edge of said opening to hold the plate in place. The
5 flange F therefore also serves as a heat retainer. The band B is located in the opening, clear of the stationary stove top, and its sole function is to deflect the heat to the pot holes a, and as it is located in the opening, it may be deeper than the flange F.
10 The clamps D are angular, they being provided with downturned extremities at one end of a length greater than the depth of the flange F and the lugs E, so that said
15 ends may be engaged with the inner edge of the opening in the stove top as stated. It will be understood that before the plate A

is applied, the ordinary grid stove top will be removed.

What I claim as new and desire to secure 20 by Letters Patent is:

The combination with the top plate of a gas stove; of a heat deflecting strip depending from the bottom of said plate and having bottom edge notches and tongues extending laterally from said notches, slotted
25 clamping members seating slidably in the notches, and bolts passing through the tongues and the slots of the clamping members.
30

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

HENRY VONEIFF.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."