

L. W. SWAFFORD.
HEAT CONCENTRATING RING FOR GAS OR VAPOR STOVES OR RANGES.
APPLICATION FILED SEPT. 10, 1909.

983,413.

Patented Feb. 7, 1911.

Fig. 1.

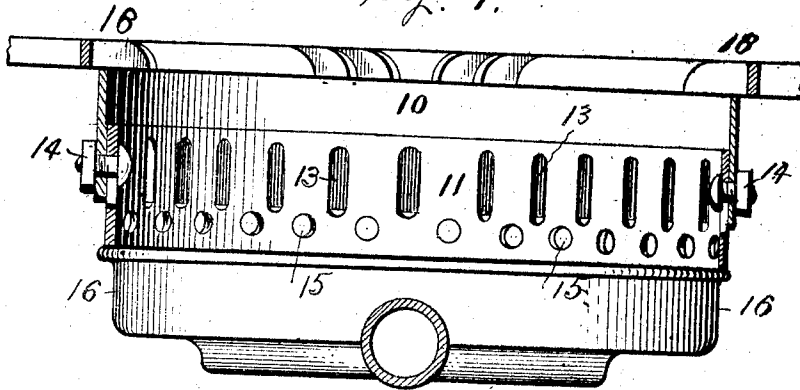
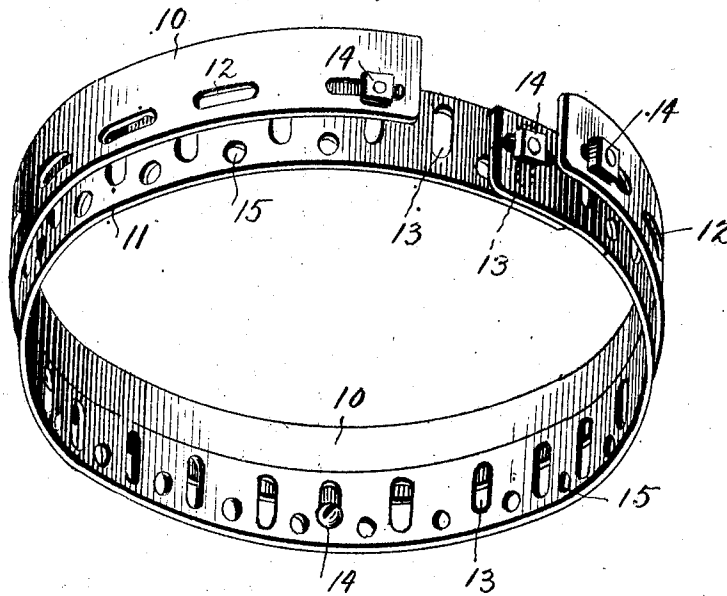


Fig. 2.



Witnesses
L. Adams,
Chas. Jones

Inventor
Levi W. Swafford,
by Chas. Williamson,
Atty.

UNITED STATES PATENT OFFICE.

LEVI W. SWAFFORD, OF VICKSBURG, MISSISSIPPI.

HEAT-CONCENTRATING RING FOR GAS OR VAPOR STOVES OR RANGES.

983,413

Specification of Letters Patent.

Patented Feb. 7, 1911.

Application filed September 10, 1909. Serial No. 517,087.

To all whom it may concern:

Be it known that I, LEVI W. SWAFFORD, of Vicksburg, in the county of Warren and in the State of Mississippi, have invented a certain new and useful Improvement in Heat-Concentrating Rings for Gas or Vapor Stoves or Ranges, and do hereby declare that the following is a full, clear, and exact description thereof.

10 The object of my invention is to provide an attachment or appliance for use in gas or vapor stoves or ranges which will perform the double function of concentrating the heat upon the vessel on the stove or
15 range and while admitting of a free supply of air to support combustion will protect the flame from currents of air, so that it will be entirely practicable to cook in an open and well ventilated room, and more
20 particularly my object is to provide an appliance of this description having capacity for changing the size or dimensions vertically as well as horizontally and with the object stated in view, my invention consists
25 in the device or appliance constructed substantially as hereinafter described and set forth.

In the accompanying drawings; Figure 1 is a vertical section of a ring embodying
30 my invention, and Fig. 2 a perspective view thereof viewed from the under side.

I illustrate in the drawing the preferred embodiment of my invention, in which embodiment it consists of two ring-form sections or members 10 and 11, respectively,
35 preferably formed of sheet metal, each of which is split or cut at one point so that its diameter may be enlarged or diminished, and one section or member being within the
40 other, and one section or member having a circumferentially extending series of horizontally elongated openings or slots 12 and the other section a similar series of vertically elongated openings or slots 13 through
45 which at intervals are passed clamping bolts or nuts 14 which serve to clamp or hold the

two sections in desired adjustment, both vertically as well as diametrically. Preferably, the ends of the inner section or member are overlapped and a securing bolt
50 passed through alining slots or openings therein to fix or hold the same and thus the whole ring structure at a desired adjustment of diameter. The slots or openings in the ring sections, besides forming
55 a part of the adjustable connection between the sections, provide for the supply of air and by the vertical adjustment of the two sections the effectual area of the openings may be varied. Preferably, besides the ver-
60 tically elongated openings 13, the ring section which has such openings, is provided with additional air supply openings 15.

When applied to the stove, my device encircles the burner 16, being placed around
65 the same within the open or filigree work 18 forming the top of the stove, contiguous to the burner, so that it completely surrounds the flame.

My ring, notwithstanding its great capacity for adjustment, is simple and inexpensive in construction and perfectly performs the function of concentrating the heat to
70 the bottom of the cooking utensil and conduces to a saving in gas, time and labor.

Having thus described my invention, what I claim is:

An appliance for gas or vapor stoves adapted to fit around the burner and to extend upward therefrom toward the cooking
80 utensil comprising two ring-form sections or members adjustable in diameter and adjustable endwise, one of said members having horizontally elongated slots and the other vertically elongated slots, and bolts
85 passing through said slots.

In testimony that I claim the foregoing I have hereunto set my hand.

LEVI W. SWAFFORD.

Witnesses:

G. B. MCCOYDELL,
T. G. SPEED.