

July 12, 1927.

1,635,286

E. P. McCLURE

HEAT DISTRIBUTING PLATE FOR COOKING UTENSILS

Filed Sept. 15, 1926

Fig. 1

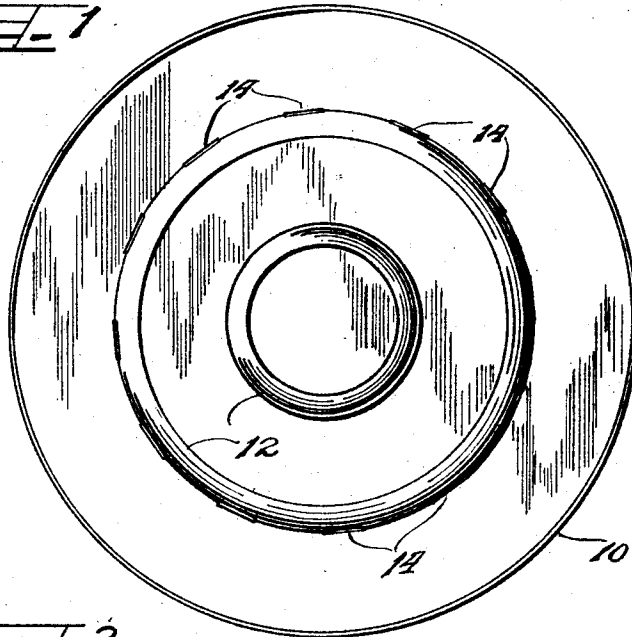


Fig. 2

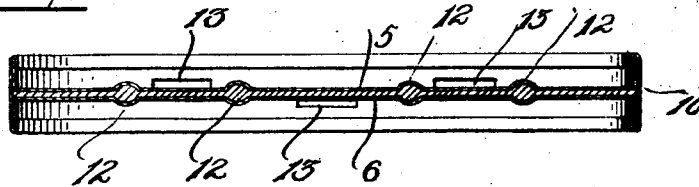


Fig. 3

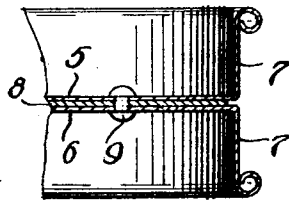
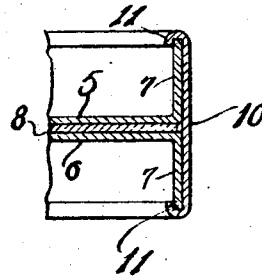


Fig. 4



INVENTOR

Elmer P. McClure

Charles Mills

BY

Attys

Patented July 12, 1927.

1,635,286

UNITED STATES PATENT OFFICE.

ELMER P. McCLURE, OF WESTERN SPRINGS, ILLINOIS, ASSIGNOR TO ALUMINUM PRODUCTS COMPANY, OF LA GRANGE, ILLINOIS, A CORPORATION OF ILLINOIS.

HEAT-DISTRIBUTING PLATE FOR COOKING UTENSILS.

Original application filed January 28, 1926, Serial No. 84,271. Divided and this application filed September 15, 1926. Serial No. 135,502.

This invention relates to a heat distributing plate for cooking utensils.

One of the objects of the invention is to prevent concentration of heat from a gas burner on the bottom of a cooking utensil in a relatively small area.

Another object is to prevent warping of the composite plate.

Another object is to provide a light support for cooking utensils which will retain the heat in the area covered by the utensil.

Other objects, benefits and refinements will become apparent to persons skilled in the art from a consideration of the following description and drawings forming a part of this application wherein:

Figure 1 is a plan view of one side of the plate.

Figure 2 is a diametric section thereof.

Figure 3 is a modification.

Figure 4 is an enlarged fragment of a part of the perimeter of Figure 2.

In all of the views the same reference characters indicate similar parts.

This application is a division from my copending application, Serial No. 84,271, filed January 28th, 1926.

The device consists essentially of two sheet metal disks 5 and 6, each having a peripheral flange 7.

The disks are placed together, as shown with the flanges extending laterally therefrom. Disks of asbestos 8, or like material, are placed between the disks to prevent intense heat from passing directly from the burner to the bottom of the removable vessel before it has time to disseminate.

The three disks are then fastened together by a plurality of rivets 9, or by use of a ring 10 extending around their perimeters, enclosing the flanges 7—7, as shown more clearly in Figure 4. The annular edges 11 are then turned over the edges of the flanges to hold the ring and disks in place.

The disks 5 and 6 are provided with annular beads 12—12 to take up expansion due to excessive heat that may be applied to the base plate. Openings 13 are made through the flanges 7 to permit inert products of com-

bustion to escape. Openings 14 are made through each disk to permit escape of air or other gases that may be confined between the disks 5 and 6.

In the structure shown, either side of the plate may be turned towards the fire as it is conveniently reversible.

I am aware that many changes may be made, and numerous details of construction may be varied through a wide range without departing from the principles of this invention, and I therefore do not purpose limiting the patent granted hereon, otherwise than necessitated by the prior art.

I claim as my invention:

1. A base plate for cooking utensils comprising two metal disks placed side by side and each disk having an annular flange extending in opposite directions therefrom, a slow-heat-conducting disk between the metal disks, and means to fasten all of the disks together.

2. A base plate for cooking utensils comprising two metal disks, having beads in their surfaces to compensate for expansion, placed side by side and having flanges extending laterally in opposite directions from their perimeters, and means to secure the disks together.

3. A base plate for cooking utensils comprising two metal disks placed side by side and each disk having an annular flange extending laterally in opposite directions therefrom, and a ring surrounding said flanges and having its edges turned over the edges of said aligning flanges to hold the parts together.

4. A base plate for cooking utensils comprising two metal disks placed side by side and each disk having an annular flange extending laterally in opposite directions therefrom, and a ring surrounding both said flanges having its edges turned over the edges of said flanges, and provided with vent means extending through the ring and each flange.

In testimony whereof I have hereunto subscribed my name.

ELMER P. McCLURE.