W. E. BURLESON & W. T. STAEBLER.

COVER PLATE FOR STOVES.

APPLICATION FILED JULY 3, 1912.

1,164,066. Patented Dec. 14, 1915.

Fig. 1.

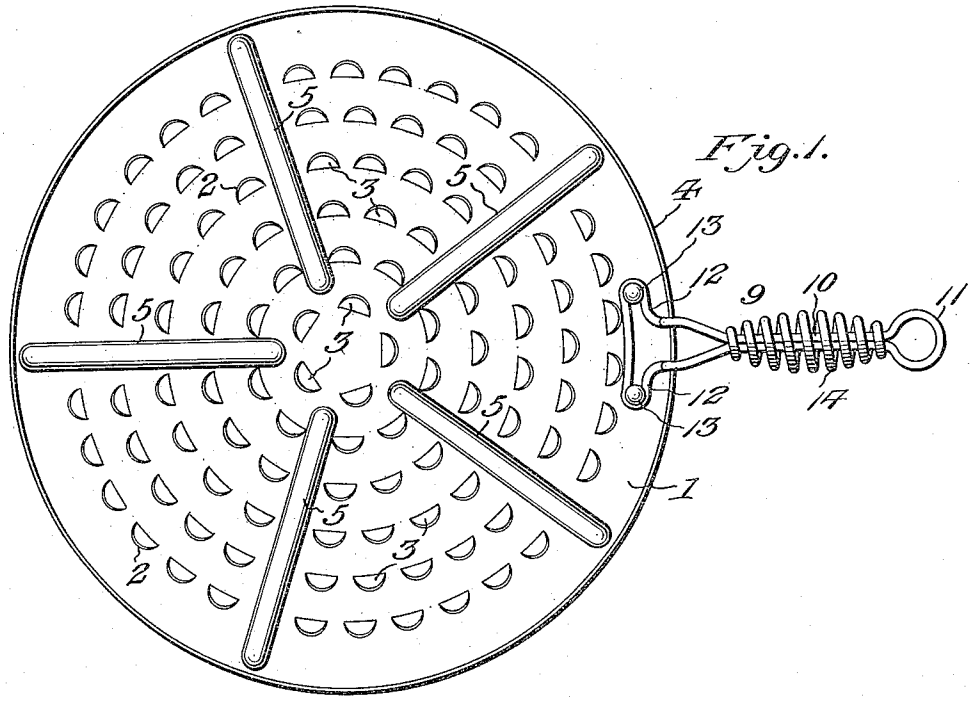


Fig. 2.

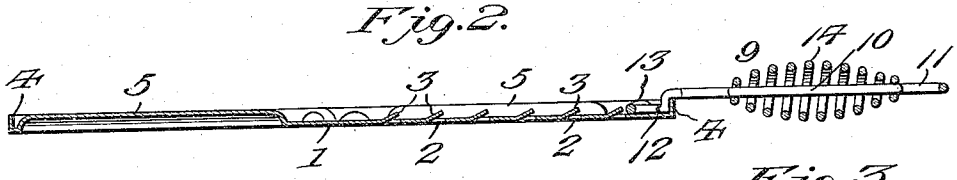


Fig. 3.



Fig. 5.

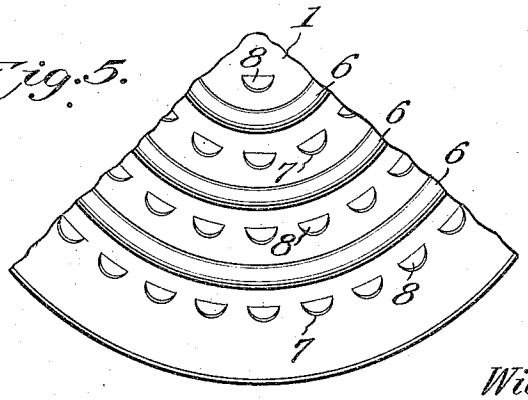
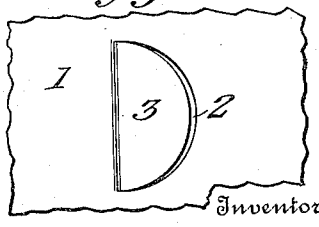


Fig. 4.



Inventors

William E. Burleson

William T. Staebler

Witnesses

Edwin L. McKee

Louise P. Reilly.

By George N. Lines. Attorney

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM E. BURLESON AND WILLIAM T. STAEBLER, OF ANN ARBOR, MICHIGAN; SAID STAEBLER ASSIGNOR TO SAID BURLESON.

COVER-PLATE FOR STOVES.

1,164,066. Specification of Letters Patent. Patented Dec. 14, 1915.

Application filed July 3, 1912. Serial No. 707,514.

To all whom it may concern:

Be it known that we, WILLIAM E. BURLESON and WILLIAM T. STAEBLER, citizens of the United States, and residents of Ann Arbor, in the county of Washtenaw and State of Michigan, have invented certain new and useful Improvements in Cover-Plates for Stoves, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in cover plates for stoves.

One object of the invention is to provide a cover plate for use in connection with gas, gasolene, blue flame oil stoves or any other stove having a suitable burner, and which is provided with means for evenly distributing the heat over the bottom of the utensil engaged therewith.

Another object is to provide a cover plate of this character which will increase the draft of the flame and cause a complete combustion of the gas at the burner.

With these and other objects in view, the present invention consists in the combination and arrangement of parts as will be hereinafter more fully described and finally pointed out in the appended claim, it being further understood that changes in the specific structure shown and described may be made within the scope of the claim without departing from the spirit of the invention.

In the accompanying drawings forming a part of this specification and in which like numerals of reference indicate similar parts in the several views: Figure 1, is a top plan view of the improved cover plate. Fig. 2, is a central vertical sectional view, thereof. Fig. 3, is an enlarged detail sectional view of a portion of the plate showing more particularly the manner in which the flame and heat deflecting openings are formed therein. Fig. 4, is a plan view of the parts shown in Fig. 3. Fig. 5, is a fragmentary plan view of a modified form of the plates.

Our improved cover plate 1, may be of any suitable shape and constructed of sheet metal, said plate being shown in the present instance as of circular form and as constructed of sheet metal. In the plate are formed a plurality of flame and heat escape openings 2, which may be of any suitable shape and formed in any suitable manner. The openings 2, are shown in the present instance as of semi-circular form and as arranged in concentric annular rows, said openings, however may be arranged in any desired manner in the plate.

In forming the openings 2, the metal is slitted in the desired shape and the portion of the metal cut by the slits is bent upwardly at a slight angle to form obliquely held heat and flame deflecting lips 3. The lips are shown as projecting outwardly to direct the heat and flame passing through the openings 2, toward the outer edge of the plate.

The plate has a narrow upwardly projecting circumscribing rim or flange 4, which strengthens and imparts rigidity to the plate and assists in preventing the lips 3, from being flattened by the placing of heavy utensils on the plate. The lips 3 are further protected by utensil supporting radially disposed ribs or beads 5, which may be formed on the plate in any suitable manner and are here shown as being struck or pressed upwardly therefrom. The ribs 5, project above or are slightly higher than the lips 3, and correspond in height to the upstanding rim or flange 4. The ribs may be arranged in any suitable manner, the same being shown in Figs. 1 and 2, of the drawings as projecting radially from near the center of the plate to the outer edges thereof, while in Fig. 5, annular, concentrically arranged ribs 6, are shown, said annular ribs alternating with or being disposed between the annular rows of openings 7, and lips 8, of this form of the plate. The lips extend upward a distance less than the width of the rim 4.

The plate is provided with a handle 9, formed of wire, which consists of a central portion 10, formed of a strip of wire bent midway its ends to form an eye or loop 11, by means of which the cover may be hung up when not in use. The inner ends of the wire forming the portion 10, are bent to form laterally extending loops 12, adapted to receive rivets 13, whereby the handle is secured to the cover. On the central portion 10, of the handle is arranged an open wire coil 14, which provides a non-heating grip for the handle.

From the foregoing description taken in connection with the accompanying draw-

ings the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention as claimed.

Having thus described our said invention, what we claim as new and desire to secure by United States Letters Patent is:

A device of the character described comprising a circular plate made of sheet metal provided with a circumscribing upstanding rim, a plurality of radially disposed ribs pressed upward and ending in a plane common to said rim, a plurality of upwardly directed semi-circular lips stamped out of said plate and disposed between said ribs to provide escape openings, and a handle secured to said plate, as and in the manner set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

WILLIAM E. BURLESON.
WILLIAM T. STAEBLER.

Witnesses:
WALTER SCHWAB,
EMMA BOEPPLE.

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