May 29, 1923.

E. W. ROGERS

1,457,188

MULTIPLE HOLE TOP FOR BURNER STOVES

Filed April 30, 1921

2 Sheets-Sheet 1

Fig. 1.

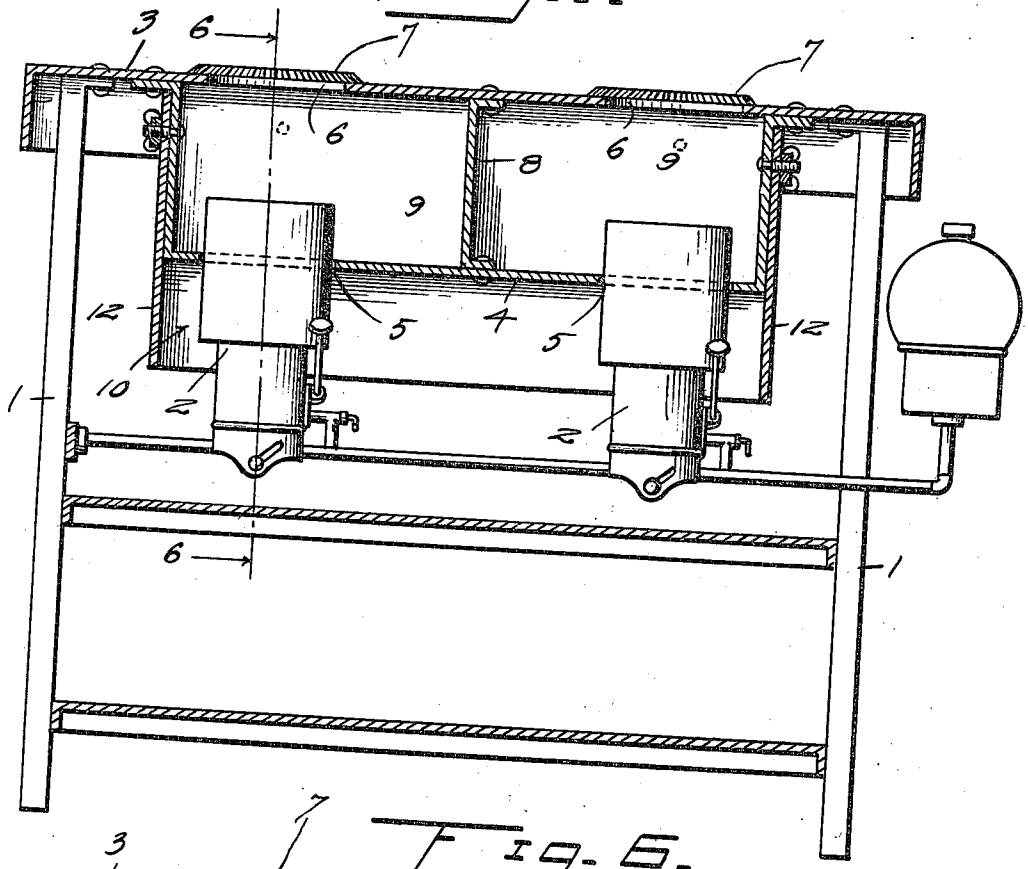
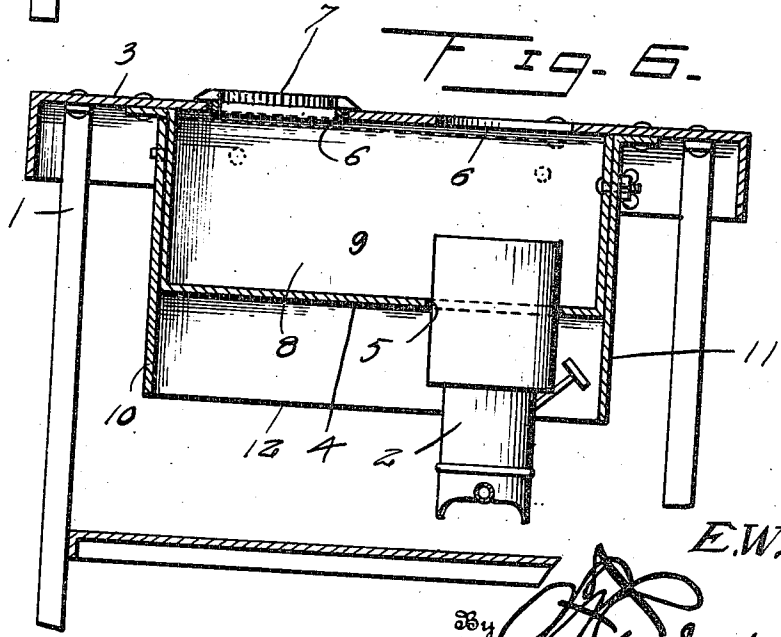


Fig. 6.



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2 Sheets-Sheet 2

Fig. 3.

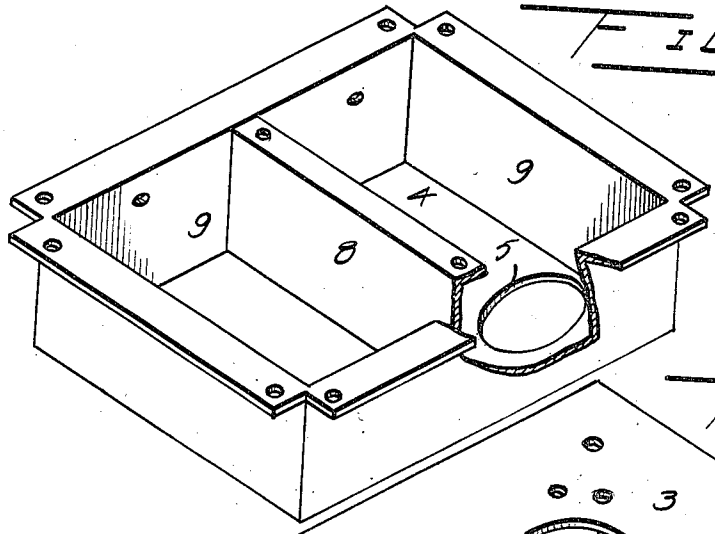


Fig. 2.

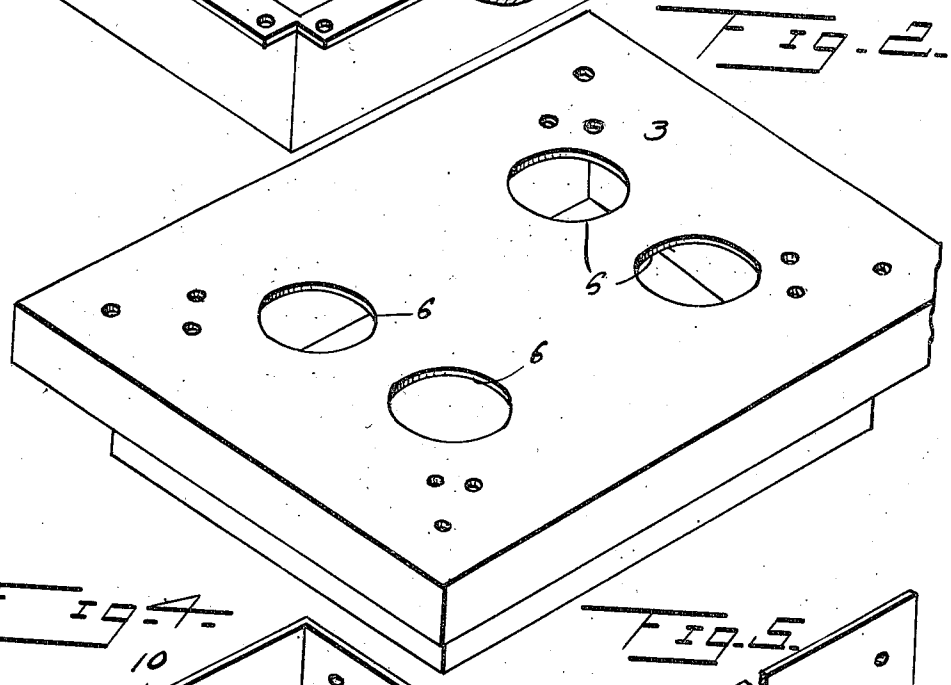


Fig. 4.

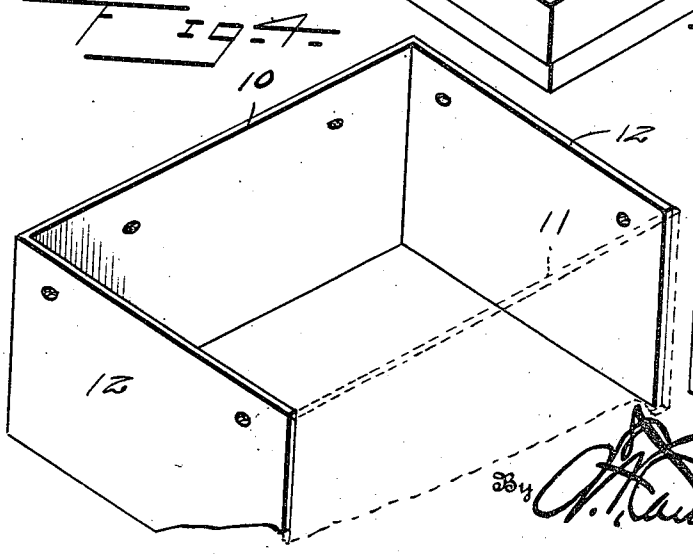
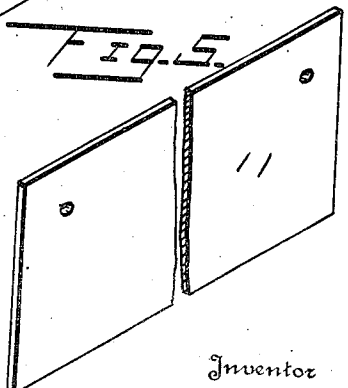


Fig. 5.



Inventor

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Patented May 29, 1923. 1,457,188

UNITED STATES PATENT OFFICE.

ERASTUS W. ROGERS, OF DURHAM, NORTH CAROLINA.

MULTIPLE HOLE TOP FOR BURNER STOVES.

Application filed April 30, 1921. Serial No. 465,817.

To all whom it may concern:

Be it known that I, ERASTUS W. ROGERS, a citizen of the United States, residing at Durham, in the county of Durham and State of North Carolina, have invented certain new and useful Improvements in Multiple Hole Tops for Burner Stoves; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Burner stoves, such as use oil, gas or vapor as fuel, are generally provided with tops having an opening for each of the burners, thereby restricting the range of usefulness of the stove and resulting in waste of fuel since only one utensil may be heated from a single burner because of the one opening in the stove top for each of the burners.

The present invention provides for the heating of more than one utensil by a single burner since the stove is provided with a top having several openings associated with a single burner the heat from which is distributed so as to be utilized for heating a number of utensils, the openings communicating with a burner chamber disposed beneath the stove top and one of the openings in said top aligning with the opening in the bottom of the chamber provided to receive the burner.

This invention also contemplates the partitioning of the burner chamber to form compartments, each compartment receiving a burner in its bottom and closed by a portion of the stove top in which a number of openings are formed to receive different utensils, one of said stove top openings being aligned with the burner receiving opening in the bottom of the compartment.

This invention furthermore contemplates the provision of a windshield in conjunction with the burner chamber or compartment which prevents currents of air and drafts from interfering with the action of the stove.

Other objects and advantages will be apparent and suggest themselves as the nature of the invention is understood.

While the drawings illustrate an embodiment of the invention it is to be understood that in adapting the same to meet different conditions and requirements, various changes in the form, proportion and minor details of construction may be resorted to without departing from the nature of the invention.

Referring to the accompanying drawings forming a part of the specification,

Figure 1 is a sectional view of an oil stove provided with a top illustrative of the invention.

Figure 2 is a detail perspective view of the stove top.

Figure 3 is a perspective view of the burner chamber which is attached to and carried by the stove top.

Figure 4 is a detail perspective view of the relatively rear wind shield.

Figure 5 is a detail view in perspective of the front wind shield, and

Figure 6 is a sectional detail on the line 6—6 of Figure 1.

Corresponding and like parts are referred to in the following description and designated in the several views of the drawings by like reference characters.

The stove may be of any type or make so long as it embodies one or more burners for utilizing as fuel oil, vapor or gas. The stove illustrated is of the type herein indicated and comprises a frame 1 and burners 2, the number of the latter depending upon the capacity of the stove. The top of the stove is designated by the numeral 3 and forms a part thereof and is secured to the frame or body 1 in any preferred manner. A chamber casing 4 is disposed beneath the top 3 and is attached thereto in any way. The bottom of the casing 4 is provided with an opening 5 to receive a burner 2 and this chamber is closed at its top by a portion of the stove top 3 in which are formed a plurality of openings, 6 in which lids 7, may be disposed if desired adapted to receive cooking utensils. One of the openings 6 is in line with the opening 5 in the bottom of the chamber 4 hence aligns vertically with the burner 2. The burner chamber is closed at its bottom and sides and receives the heat from the burner 2 cooperating therewith. A utensil placed upon the stove top 3 and closing the opening 6 receives the heat directly from the burner 2 and checks the escape of the heat through said opening 6 and causes its diffusion throughout the chamber so that a utensil placed upon the other opening 6 will likewise be heated from the same burner cooperating with the chamber to heat the same. It will thus be understood that a

number of utensils may be heated by means of a single burner, the number being restricted only by the number of openings in the top of the stove extending over and closing the burner chamber.

In the event of the stove embodying more than one burner 2 the chamber 4 will be sub-divided by partitions 8 to form compartments 9, one compartment for each of the burners. That portion of the stove top 3 extending over and closing each of the compartments 9 will be provided with openings 6, the openings 6 aligning vertically with the burners 2 fitted in openings formed in the bottom of the respective compartments. This provides for the utilization of any one of the burner compartments 9 when it is required to light one burner only. It is noted that the top 3 and burner chamber are essential parts of the stove and are not adjunctive thereto and increase the range of usefulness of burner stoves and prevent the waste of fuel since a number of utensils may be effectively heated from a single burner.

To prevent air currents or drafts from interfering with the action of the burners and the burner chambers associated therewith, windshields 10 and 11 are provided and are preferably detachably connected with the side walls of the burner chamber. The windshield 10 is disposed relatively in the rear of the burner chamber 4 and comprises end wings 12 which extend along the end walls of the chamber 4. The relatively front windshield 11 is attached to the front wall of the burner chamber 4 and the windshields have their lower portions projecting below the bottom of the burner chamber 4 a sufficient distance to effectively prevent draft and currents of air from interfering with the action of the burners. The windshields are preferably detachable to admit of their removal when required.

Having thus described the invention, what I claim is: —

In combination with a stove having a top, an upstanding burner at a distance below the top, a casing depending from said top having a bottom wall and an outwardly extending marginal flange at the upper edge secured to the under surface of the top, said casing having an opening in its bottom wall through which said burner extends, the burner terminating short of the top, said top having a plurality of outlet openings, and a windshield surrounding said casing and depending below the same and about the burner.

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

ERASTUS W. ROGERS.

Witnesses:

BENNETT S. JONES,

E. WAIDELICH.