

T. W. McKENZIE.
HEATING DEVICE FOR COOKING UTENSILS.
APPLICATION FILED SEPT. 20, 1912.

1,069,344.

Patented Aug. 5, 1913.

Fig. 1.

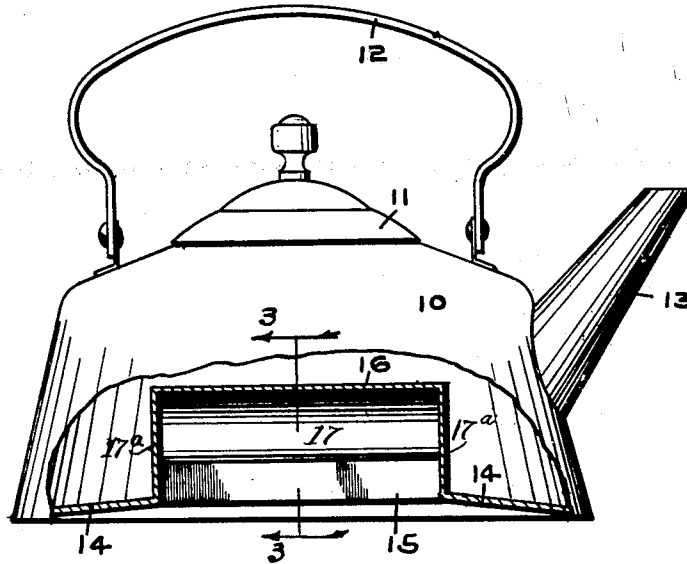


Fig. 2.

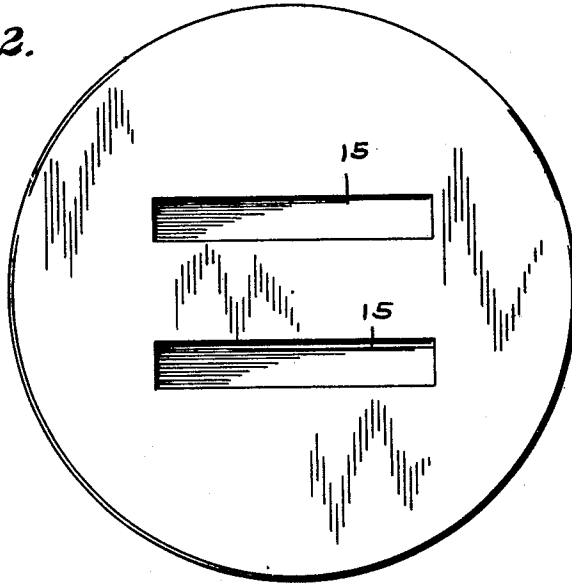
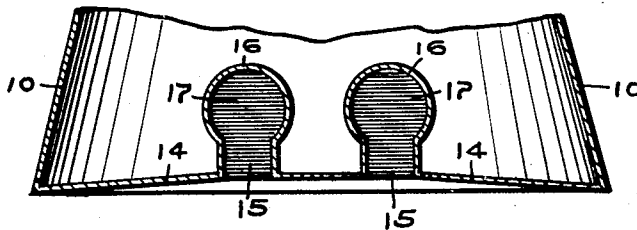


Fig. 3.



WITNESSES:
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UNITED STATES PATENT OFFICE.

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HEATING DEVICE FOR COOKING UTENSILS.

1,069,344.

Specification of Letters Patent.

Patented Aug. 5, 1913.

Application filed September 20, 1912. Serial No. 721,498.

To all whom it may concern:

Be it known that I, THOMAS W. McKENZIE, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Heating Devices for Cooking Utensils, of which the following is a specification.

This invention relates to certain means to be used in connection with wash boilers, stew kettles, coffee and teapots and similar cooking utensils; and the object of the invention is to provide utensils of the above character with means whereby the contents of such utensils may be brought more quickly to the boiling point than now obtains in the present constructions used in such utensils.

I accomplish the above object of the invention by means of the construction shown in the accompanying drawings, forming a part hereof, in which—

Figure 1 is a view partly in side elevation and partly in section of an ordinary teakettle. Fig. 2 is an underside plan view of the construction shown in Fig. 1. Fig. 3 is a fragmentary detail sectional view through the lower portion of the kettle, on the dotted line 3—3 in Fig. 1.

Referring to the drawings, 10 represents the body of an ordinary and well-known teakettle, such as is ordinarily used around the kitchen; 11 the lid; 12 the bail and 13 the spout. The body 10 is provided with the usual bottom member 14. The bottom member 14 is provided with suitable slots or openings 15, preferably arranged in parallel planes. The openings 15 form passageways leading to the chambers 17 formed within the tubes 16. The ends of the tubes 16 are closed by means of the end-walls 17^a, and the tubes communicate with the slots 15 in the bottom member 14. The internal diameters of the tubes 16 are somewhat greater than the width of the slots 15, and the tendency of these enlarged tubes 16, by afford-

ing expansion of the heated air, is to accelerate the movement of the flame through the slots 15 into the tubes 16. I have found by experiment that if the slots 15 and tubes 16 are of the same diameter the movement of the flame and heated air will not be as rapid in and out of said chambers as it is where the chambers are larger than said openings. I have also found by experiment that with the use of my invention in the above noted kettle that a certain volume of water can be heated to the boiling point in about one-half the time that is required in the old and well-known kettle now commonly in use.

In order to accelerate the movement of the flame and hot air toward the slots 15 I mount the bottom member 14 on an angle, the highest point being at or near the center of the kettle, as clearly shown in Fig. 3 of the drawings.

While I have shown two of the tubes 16 in the drawings, I have no desire to be limited to this number, nor is it necessary that the tubes be placed in parallel planes, for the reason that equally as good results can be obtained by placing the tubes at right angles to each other.

Having thus fully described my said invention, what I claim as new and wish to secure by Letters Patent, is—

A utensil provided with long narrow openings in the bottom, and means arranged within said utensil to form closed chambers over said openings, said chambers having greater diameters than the widths of said openings.

In witness whereof, I, have hereunto set my hand and seal at Indianapolis, Indiana, this, 7th day of September, A. D. one thousand nine hundred and twelve.

THOMAS W. McKENZIE. [L. s.]

Witnesses:

F. W. WOERNER,
L. B. WOERNER.