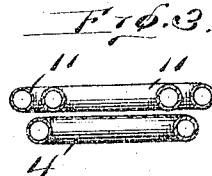
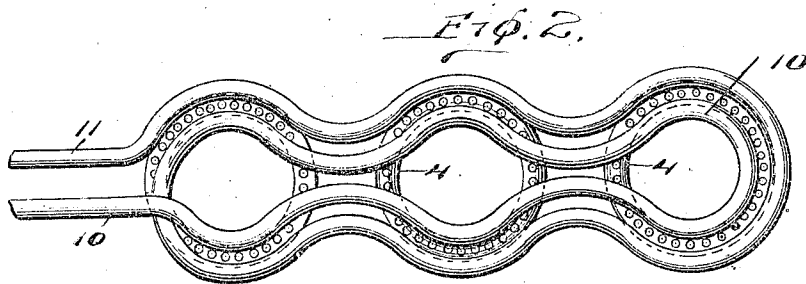
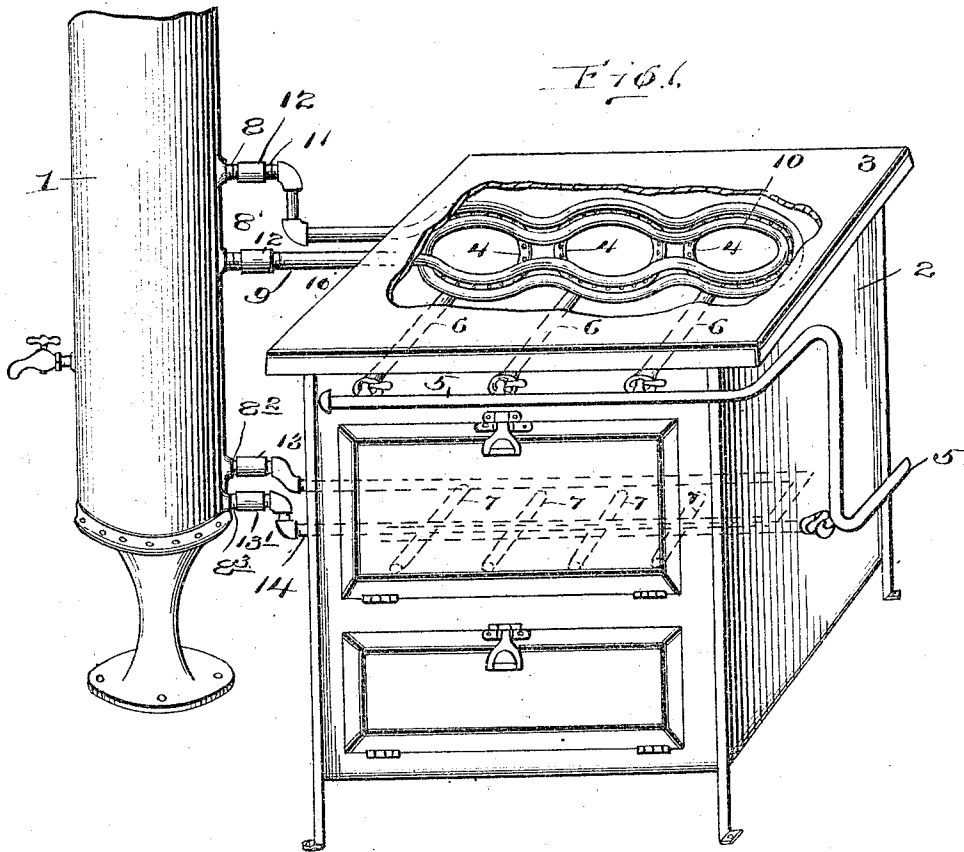


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WATER HEATER.
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1,028,261.

Patented June 4, 1912.



Witnesses

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CLARA NICHOLS, OF HILLYARD, WASHINGTON.

WATER-HEATER.

1,028,261.

Specification of Letters Patent.

Patented June 4, 1912.

Application filed July 25, 1911. Serial No. 640,412.

To all whom it may concern:

Be it known that I, CLARA NICHOLS, a citizen of the United States, residing at Hillyard, in the county of Spokane and State of Washington, have invented certain new and useful Improvements in Water-Heaters, of which the following is a specification.

My invention relates to boilers, gas cooking stoves and water heaters and consists in a boiler, water tubes, cooking stove and gas pipes so constructed and arranged that the water in a boiler may be heated during the process of cooking without additional expense over and above the expense of the gas necessary for cooking.

Referring to the accompanying one sheet of drawing; Figure 1 is a perspective view of a stove and a boiler with my device attached. Fig. 2 is a top plan view of my pipe detached from the boiler and is represented as setting on top of the stove around the burners. Fig. 3 is a detail sectional view the upper part showing sections of the water tubes and the lower part showing a section of the burner.

Referring more particularly to the drawing, my invention is described as follows:

In the accompanying drawings the numeral 1 represents a boiler, 2 a stove. The stove may be a gas stove, a gasoline stove or an oil stove.

3 represents the top plate of the stove broken away at its center, 4 represents the upper gas burners, 5 represents the gas pipe which conducts the gas to the burners, 6 represents the pipes that conduct the gas to the upper burners, 7 represents the lower burners in dotted lines, 8, 8', 8" and 8³ represent threaded necks attached to and extending from the boiler. To the neck 8' is secured the threaded end 9 of a water tube 10 which extends over the top of the stove and immediately over and around the burners on the inner side of the gas jets thereof and then continuous on the top of the said stove over and around the outside of the gas jets of the burners and then turns upwardly terminating in a threaded end 11.

It will be observed that my water tube 10 passes slightly above the gas pipes, around the inner side of the rows of jets and also slightly above and around the outside of said rows or jets; thus the lower surface and both side surfaces thereof are heated at the same time. Thus the water

in said tubes is more quickly heated and by less gas than where the tube runs only on one side of the rows of gas jets.

These necks 8 and 8' and threaded ends 9 and 11 are united by right and left threaded nuts 12. United to the neck 8³ near the lower end of the boiler by right and left threaded nuts 13 is a pipe 14, the water passing out through the said lower neck and running through the tube immediately over the lower burners 7 and then back over said burners turning up and united to the said upper neck 8² by a right and left threaded nut 13. The upper row of burners are situated in cooking holes in the top of the stove, over which the cooking is usually done, the gas flames extending from the jets of said burners contact the tubes and heat the water therein and at the same time and with the same amount of gas and heat do the cooking, the lower part of the stove under the burners 7 may be used as a broiler, baker or the like. As I said, this stove may be heated either by the flames from gas, gasoline, oil, or other like material. In order to accomplish the purpose desired, it is only necessary that the flames contact the tubes 10 or 14, and the vessels containing the matter to be heated or cooked. I have connected the pipes to the stove by means of right and left nuts so that any stove of this character may be easily, cheaply and quickly attached to a boiler or so that a boiler may be easily, cheaply and quickly attached to a stove, because there are many people who have coal stoves and fire backs by means of which the water is heated in the winter time, but in the summer time they do not desire to use coal and substitute a gas stove, in which case they would ordinarily have to use a gas water heater separate and distinct from the gas stove, but with my invention, they do not have to use a separate heater for the water but use the gas with which they do the cooking or broiling for that purpose and without additional expense.

Although I have specifically described the novel features of construction, combination and arrangement of the several parts of my invention yet I do not confine myself to such specific construction, but reserve and may exercise the right to make such changes therein as do not depart from the spirit of the invention or the scope of the appended claim.

Having described my invention, what I claim as new and desire to secure by Letters Patent is,—

In combination with a boiler, a gas stove
5 having annular burners, a water conducting
pipe secured to said boiler and extending
therefrom over said burners and inside of
the circular rows of jets of said burners,
10 thence on the outside of said rows of jets,
thence back to said boiler and connected
therewith, the parts of said pipe inside and

outside of said circular rows of jets being
parallel with each other and leaving between
them narrow spaces for said jets, substan-
tially as shown and described.

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

CLARA NICHOLS.

Witnesses:

A. L. MCGINNIS,
ARCHIE HOLMES.