A. C. CARLSON.

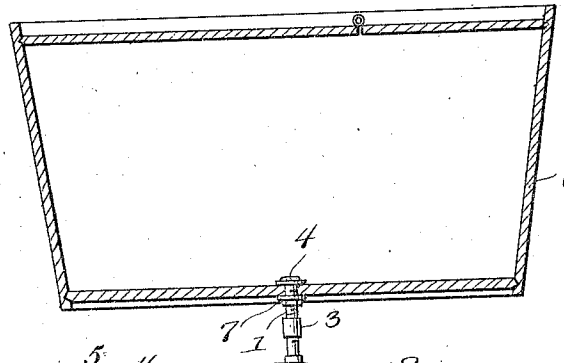
HEATER FOR WASHING MACHINES.

APPLICATION FILED MAR. 8, 1918.

1,287,876.

Patented Dec. 17, 1918.

Fig. 1.



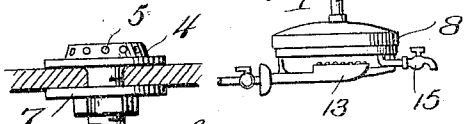


Fig. 2.

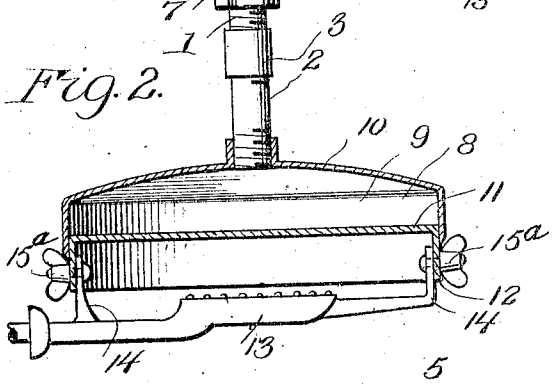


Fig. 3.

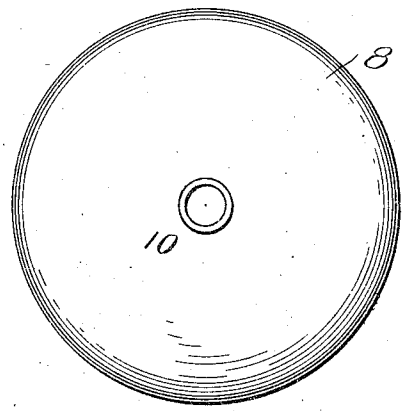
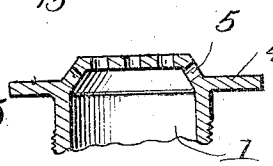


Fig. 5



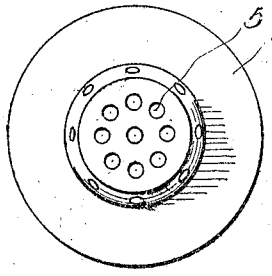


Fig. 4.

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UNITED STATES PATENT OFFICE.

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HEATER FOR WASHING-MACHINES.

1,287,876. Specification of Letters Patent. Patented Dec. 17, 1918.

Application filed March 8, 1918. Serial No. 221,259.

To all whom it may concern:

Be it known that I, ANGER C. CARLSON, a citizen of the United States, residing at Butler, in the county of Butler and State of Pennsylvania, have invented new and useful Improvements in Heaters for Washing-Machines, of which the following is a specification.

This invention relates to a heater for washing machines or any other suitable receptacle having water contents that is to be heated and has for its primary object to provide a heater in which the parts are so constructed and associated that the water may be brought rapidly to a boiling temperature.

An object of the invention is to provide a heater in which certain parts are constructed to utilize the steam generated for agitating the contents of the receptacle to which the heater is attached.

Besides the above my invention is distinguished in the manner of forming the water container so that the greatest quantity of water in the container will be centered directly over the flame of the burner and further for providing a flange for concentrating the heat around the bottom of the container.

Another feature of my invention is the manner of forming a pipe section and a perforated head of one piece and threading a plate on the section adapted to coöperate with the head for accomplishing a liquid tight connection.

With these and other objects in view the invention will be better understood from the following detailed description taken in connection with the accompanying drawing wherein:

Figure 1 is a vertical sectional view through a receptacle showing my device attached thereto.

Fig. 2 is an enlarged sectional view through the device.

Fig. 3 is a top plan view of the container.

Fig. 4 is a top plan view of the head.

Fig. 5 is a sectional view through the head.

At the start I wish to call attention to the fact that although I show my device attached to a receptacle for washing clothes I wish it to be understood that the same may be connected to various other receptacles in which the contents of the receptacle are to be agitated as well as heated.

The invention in one of its forms consists of two pipe sections 1 and 2 connected by a coupling 3. The upper end of the section 1 is formed in a head 4 provided with perforations 5 by means of which the interior of the section communicates with the interior of the receptacle 6 to which the device is attached. Threaded upon the pipe 1 is a plate 7 coöperating with the head 4 so as to insure a liquid tight connection between the receptacle and the pipe 1.

The lower end of the pipe has a threaded connection with a water container 8. This water container consists of a body portion 9 having a dome shaped top 10, with a result that the greatest capacity of the container is arranged at the center thereof directly over a source of heat to be described later, thereby heating the water more rapidly. The bottom 11 is connected to the body in any suitable manner such as by welding and is provided with a depending flange 12 for the purpose of concentrating the heat from the burner 13 upon the bottom.

This burner 13 is provided with arms 14 connected to the flange by thumb bolts 15ª. To complete the invention the container has connected thereto a drain spigot 15.

From the foregoing description taken in connection with the accompanying drawing it should be apparent that in a very simple manner I am able to heat the contents of the receptacle 6 and to agitate the articles therein. This is accomplished by the burner 13 which immediately brings the water within the container to a boiling temperature with a result that the steam escaping therefrom bubbles through the water up through the pipe section 1 and forcibly escapes from the perforations 5 against the clothes in the receptacle 6. These steam bubbles passing through the clothes loosens the dirt and expedites the cleaning operation of the clothes.

It is to be understood that my invention may be constructed in various other manners than that shown and therefore I do not desire to be limited except as set forth in the appended claim.

Having described my invention, what I claim is;

A heater comprising in combination with a receptacle, a water container shaped to have a greater capacity at the center than

at the edge thereof, a burner detachably supported by the container directly under the center of said receptacle, said container being provided with a depending flange for concentrating the heat of the burner upon the bottom of said container, a pipe communicating with the container and terminating in a head provided with a plurality of small discharge openings and a plate threaded on the pipe and coöperating with the head for clamping the heater to the receptacle.

In testimony whereof I affix my signature.

ANGER C. CARLSON.