G. B. BAKER.

HEATER ATTACHMENT FOR RANGE BOILERS.

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1,185,576. Patented May 30, 1916.

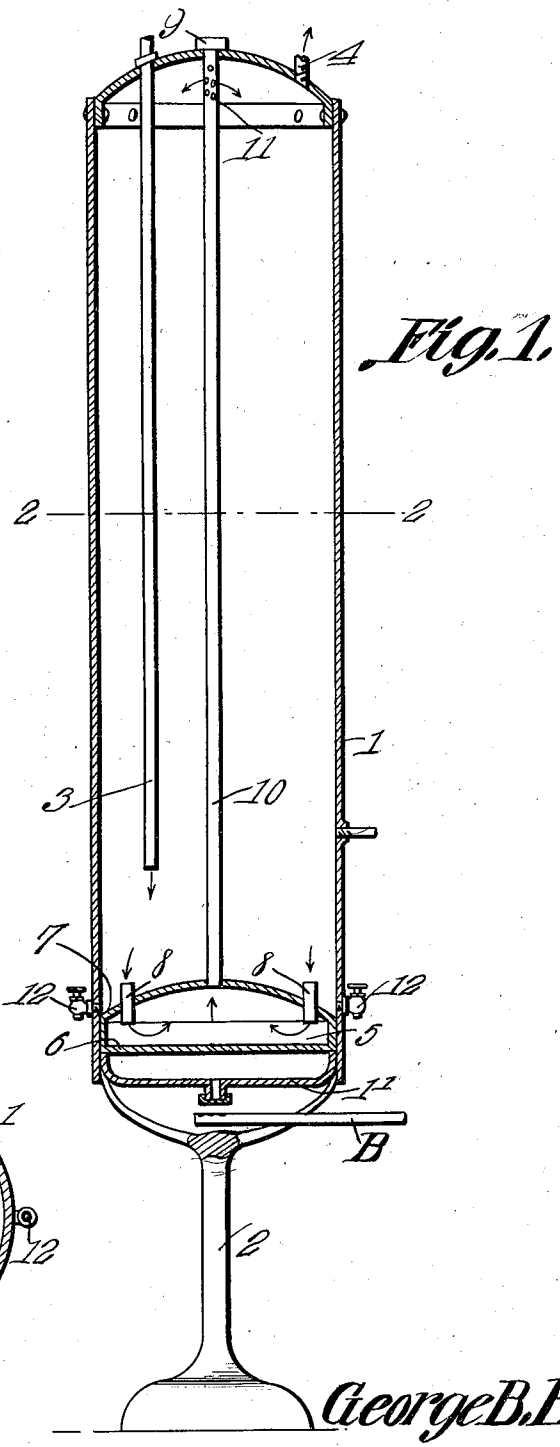
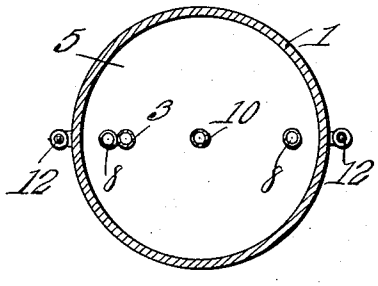


Fig. 1.

Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

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HEATER ATTACHMENT FOR RANGE-BOILERS.

1,185,576. Specification of Letters Patent. Patented May 30, 1916.

Application filed October 29, 1915. Serial No. 58,636.

To all whom it may concern:

Be it known that I, GEORGE B. BAKER, a citizen of the United States, residing at Oklahoma, in the county of Oklahoma and State of Oklahoma, have invented a new and useful Heater Attachment for Range-Boilers, of which the following is a specification.

The present invention relates to improvements in heater attachments for range boilers.

The primary object of this invention is the provision of a heater attachment for disposition within a boiler, the same being so disposed therein as to provide a sediment compartment above the same and to at the same time provide a complete water circulation within the boiler, the heating chamber of said attachment being disposed in close proximity to the bottom of the boiler to be readily heated by a gas burner attachment and for domestic purposes.

A further object of this invention is the provision of a novel construction of heating drum having inlet tubes disposed to permit of the proper circulation of the water to and through the drum without the entrance of sediment and with a circulating tube concentrically of the boiler with outlets near the top, to provide a complete circulation of the body of water within the boiler.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings,—Figure 1 is a vertical central sectional view through a range boiler with the present attachment in operable relation thereto. Fig. 2 is a section taken on line 2—2 of Fig. 1.

Referring to the drawings, the numeral 1 designates the casing of the range boiler, which is of usual construction having the bottom 1′ provided with the usual draw-off spout (not shown) and supported upon the pedestal 2. The usual feed pipe 3 and lead pipe 4 are provided.

The heating attachment consists of a hollow drum 5 which is insertible within the boiler and has its lower wall 6 spacedly above the bottom 1′ with its upper wall domed so as to provide the sediment space 7 thereabove and adjacent to the wall of the boiler. Disposed within the dome of the drum are the inlet tubes or pipes 8 whose upper ends are disposed to prevent the admission of sediment into the drum while their lower ends are projected within the drum a sufficient distance to insure the delivery of the cooler water to a point closer to the bottom 6. Disposed concentrically of the dome of the drum 5 and extending concentrically throughout the full length of the boiler 1 and secured to the head of the boiler by means of the lock nut and plug 9 is the hot water circulating pipe 10, in whose upper end within the boiler 1 are provided the outlet apertures 11.

In order to provide a means for draining the sediment collected above the dome of the drum 5, the draw-off cocks 12 are provided.

From the foregoing description, taken in connection with the drawings it is evident that with the present form of attachment a flame from the burner B will cause the heating of the water within the drum 5 and that the water therein and within the boiler 1 due to such heating will circulate and follow the direction of the arrows.

By inclosing the heater attachment within a boiler, the same will not interfere with the usual range heating attachment and as the same is encased and entirely submerged within the water within the boiler it will not unduly corrode and is in ready position at all times for heating the water by means of a gas burner.

What is claimed is:

The combination with a boiler, of a hollow heating drum fitted within the boiler adjacent the lower end thereof and having a dome-shaped top providing sediment collecting means adjacent the walls of the boiler, a drain cock attached to one wall of the boiler immediately above the drum for draining out the sediment, a hot water riser pipe attached to the center of the top of the drum and projecting upwardly within the boiler, the upper end of the riser pipe extending through the upper end of the boiler, the riser pipe having apertures adjacent the

upper end of the boiler, a plug engaging the upper end of the riser pipe and bearing upon the boiler, and an inlet pipe communicating through the top of the drum and projecting thereabove, whereby to prevent sediment which is upon the drum from entering the same.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

GEORGE B. BAKER.

Witnesses:
CARL Y. SEMPLE,
EMMA HOPPER.