

Dec. 7, 1926.

1,609,858

W. J. BOHON

RANGE BOILER INSULATOR CASING

Filed April 10, 1926

Fig. 4.

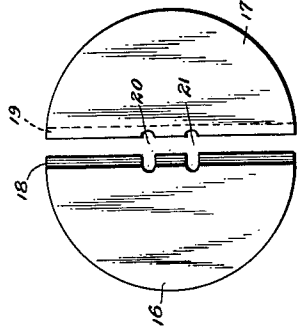


Fig. 5.

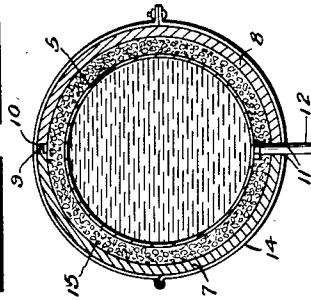


Fig. 6.

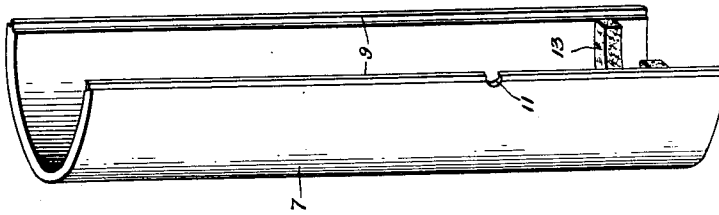


Fig. 7.

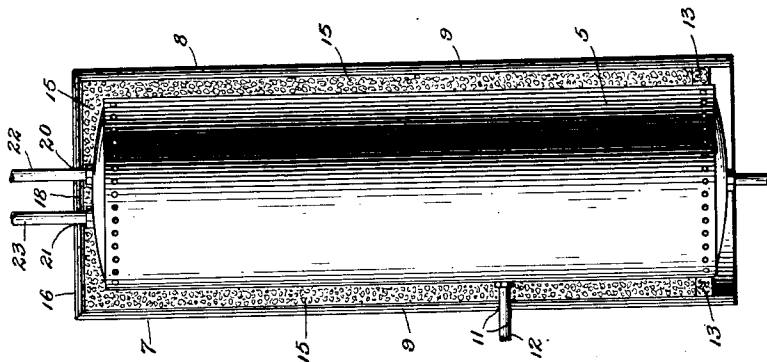
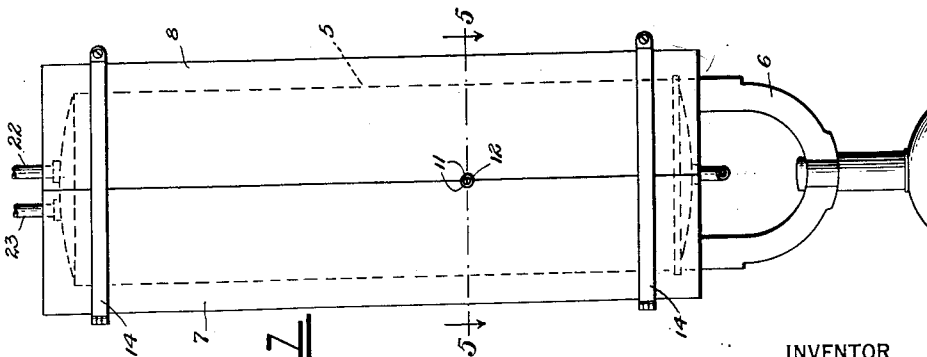


Fig. 1.



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RANGE-BOILER INSULATOR CASING.

Application filed April 10, 1926. Serial No. 101,159.

My invention relates to range boiler insulator casings and the principal objects of the invention are to provide a casing comprising two complementary semi-cylindrical members, preferably made of wood, that are adapted to jointly encase the boiler with a space between that is filled with a pulverized insulator material such as ground cork, asbestos, saw-dust, or the like, to prevent radiation of heat and thereby greatly increase the efficiency of the boiler. Other objects are to provide a casing that may be readily installed and removed, that comprises means for preventing radiation from the top of the boiler, that is provided with means for retaining the insulator material in place, and which may be manufactured at comparatively small cost.

With the above and other objects in view which will appear as the description proceeds, the invention consists of the novel construction, adaptation, combination and arrangement of parts hereinafter described and claimed. These objects are accomplished by devices illustrated in the accompanying drawings, wherein—

Figure 1 is an outline view in elevation showing the casing installed on a boiler that is shown in dotted lines;

Fig. 2 is a view in elevation showing a boiler mounted within one of the semi-cylindrical members;

Fig. 3 is a view in perspective of one of said members;

Fig. 4 is a top plan view of the complementary segmental cover members; and

Fig. 5 is a view in horizontal section taken substantially on a broken line 5, 5 of Fig. 1.

Referring to the drawings throughout which like reference numerals designate like parts, the numeral 5 indicates a range boiler mounted on a stand 6. The casing comprises two semi-cylindrical members 7 and 8. The member 7 is preferably provided with tongues 9 on its vertical edges that fit within grooves 10 in the member 8. A round hole is provided in one side where said members join comprising complementary halves 11 that are cut in their edge portions. Said hole is for the passage of a pipe 12 that ordinarily supplies hot water to the boiler. Semi-annular complementary ring members 13, made of felt or other flexible material, are secured on the inner sides of the members 7 and 8 adjacent their bottoms for reasons presently set forth.

When installing my device the two semi-cylindrical members 7 and 8 are fitted together around the boiler with the pipe 12 supporting same by passing through the hole 11. It will be understood that the inner diameter of said members is greater than the diameter of the boiler, and that the ring members 13 are adapted to tightly engage the boiler when the annular clamps 14 are tightened up as in Fig. 1. Said ring members engage the boiler near its lower end and the two semi-cylindrical members project a little above the top of the boiler as shown in the drawings. Said ring members may be used as a sole support for the device in cases where there is no such pipe as shown at 12.

It will be observed that the ring members 13 also serve as spacers to hold the semi-cylindrical members equi-distant from the boiler all around, and they also serve as a closure for the bottom of the space thus created. Said space is completely filled from the top with any desired heat insulator such as ground cork, pulverized asbestos, saw-dust or the like as clearly shown in Fig. 2. By reason of the top of the device being open said insulator material may be shaken down and packed tightly therein.

As the device projects above the boiler the insulator material 15 may completely cover the top of the boiler as in Fig. 2. It will here be seen that the tops of the members 7 and 8 are beveled inwardly and that a cover correspondingly beveled fits therein. Said cover comprises two segmental members 16 and 17 that are preferably semi-circular and provided with a tongue 18 and a groove 19. Semi-circular slots provided in their divisional edge portions that form holes 20 and 21 arranged to fit snugly around the hot water service pipes 22 and 23 when said segmental cover members are installed in place.

It will thus be seen that the top and sides of the boiler are completely insulated against radiation and loss of heat. The bottom of the boiler may be somewhat exposed as this is the seat of the cold water and does not require insulation. I always prefer to make the device of wood for the reasons that same is light in weight, neat in appearance, durable and easy to manipulate, and comparatively inexpensive to manufacture. Although the several members may be of solid wood construction, I prefer to make them

either tongue and grooved or of the multiple-ply veneered construction.

Having thus described my invention, it being understood that such changes may be resorted to as are within its scope and spirit, what I claim and desire to secure by Letters Patent of the United States is:—

A range boiler insulator casing comprising two semi-cylindrical members, means for holding said members snugly together to form a cylindrical casing around the boiler, a resilient closure member for the bottom of

the space between the casing and boiler, said closure member adapted to retain said casing on the boiler in spaced relation with its top projecting above the boiler, finely divided insulator material filling the space between the boiler and the casing and covering the top of the boiler, and a segmental cover adapted to serve as an equalizing spacer for the top of the casing.

In witness whereof, I hereunto subscribe my name this 5th day of April A. D. 1926.

WILLIAM J. BOHON.