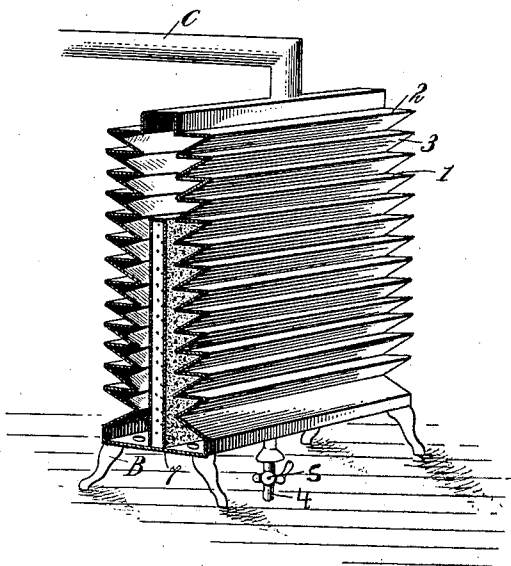


RADIATOR.

1,057,988.

Patented Apr. 1, 1913.



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RADIATOR.

1,057,988.

Specification of Letters Patent.

Patented Apr. 1, 1913.

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To all whom it may concern:

Be it known that I, EDGAR H. TROTTER, a citizen of the United States, and a resident of Columbus, in the county of Franklin and State of Ohio, have invented a new and Improved Radiator, of which the following is a full, clear, and exact description.

My invention relates to a new and improved form of gas stoves and radiators, and an object of my invention is to construct a gas stove having relatively large heating surfaces compared to the combustion space, and having said heating surfaces so constructed that a large part of the heat will be radiated downward.

A further object of my invention is to insulate the combustion space from the heat-carrying fluid space.

I attain the above outlined objects by constructing a heating device having corrugated sides to increase the radiating surface which is heated by means of an asbestos-covered burner, shown in the drawings.

With the above and other objects in view, as will more fully hereinafter appear, the present invention consists in certain novel details of construction and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and more particularly pointed out in the appended claim.

Reference is to be had to the accompanying drawings forming a part of this specification, in which the figure is a perspective view of my invention showing positioned therein an asbestos burner.

As shown, the stove is supported some distance off the ground by means of legs B, which stove has the customary form of combustion exhaust C leading from the upper portion thereof. This stove comprises corrugated sides 1, which preferably have flat surfaces 2 and downwardly- and inwardly-inclined surfaces 3, to form an accordion structure. It will be seen by this construction that the heat in the combustion chamber 5 of the stove will be radiated from all faces of the corrugated sides, and the heat radiating from the inwardly-beveled sides

3 will be deflected toward the bottom, and, therefore the coolest portion of the surroundings.

As disclosed in the drawings, the asbestos covered plate 7 is perforated with a plurality of apertures, forming, in effect, a burner. Gas is admitted to the interior of the burner through a suitable gas pipe 4 controlled by a cock 5, the gas passing through the apertures, in the plate being lighted on the outside thereof. This asbestos-covered plate 7 has the advantage of spreading out the combustion surface and bringing it near all points of the corrugated sides of the stove, thereby economizing in the amount of gas used, and through the equal distribution of the heat from the burning gas all parts of the surface are uniformly heated.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

In a heater, a stove having oppositely-disposed corrugated sides spaced apart, said corrugated sides formed by a series of flat top portions and downwardly and inwardly inclined portions meeting the next adjacent lower flat portion, whereby the heat may be radiated downwardly and outwardly, and a flat, hollow plate disposed between said corrugated sides, a covering of asbestos on the sides of said plate, said plate having apertures therethrough, and means for admitting gas to said plate, so that a flame will form at the apertures and on said asbestos covering, which flame will be uniformly distributed over the corrugated sides and in close proximity to said sides, whereby practically the full heating effect of said flame will be radiated downwardly from said corrugated sides.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDGAR HUBERT TROTTER.

Witnesses:

W. O. BAUM,
J. T. SNYPP.