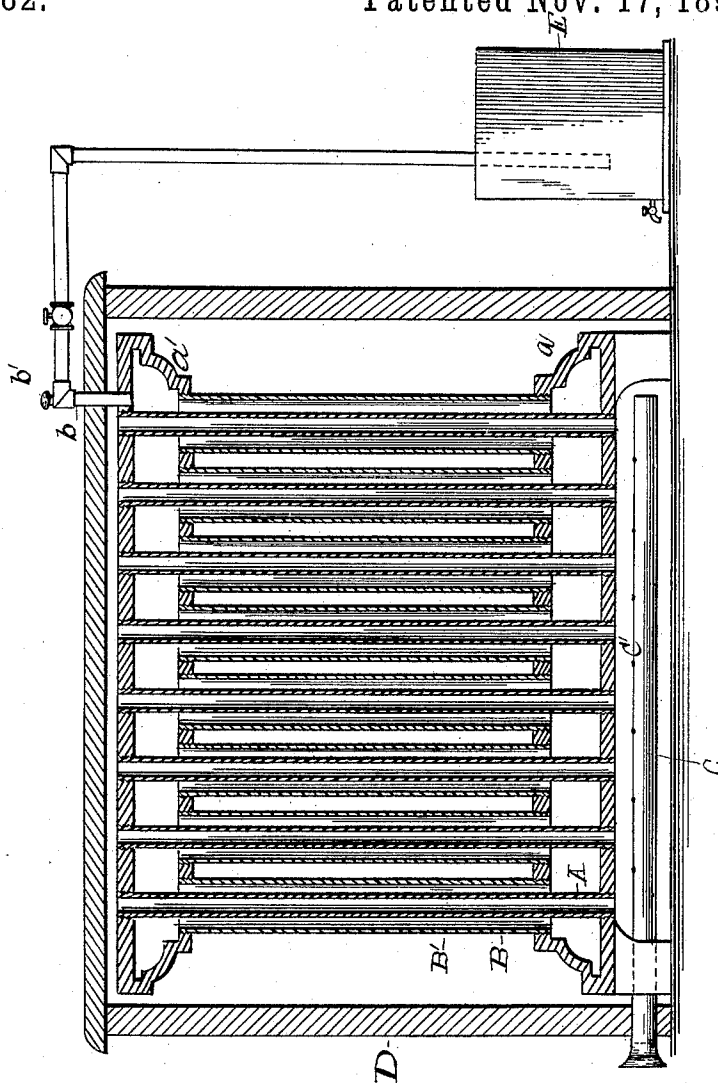


(No Model.)

T. H. PAUL.
GAS STOVE AND RADIATOR.

No. 463,282.

Patented Nov. 17, 1891.



WITNESSES

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UNITED STATES PATENT OFFICE.

THOMAS H. PAUL, OF FROSTBURG, MARYLAND.

GAS STOVE AND RADIATOR.

SPECIFICATION forming part of Letters Patent No. 463,282, dated November 17, 1891.

Application filed April 22, 1891. Serial No. 390,068. (No model.)

To all whom it may concern:

Be it known that I, THOMAS H. PAUL, a citizen of the United States of America, residing at Frostburg, in the county of Allegany and State of Maryland, have invented certain new and useful Improvements in Gas Stoves and Radiators, of which the following is a specification, reference being had therein to the accompanying drawing.

My improvement in gas-stoves consists in the novel construction, combination, and arrangement of the parts for economizing the quantity of gas required for fuel, and also the quantity of water required to keep the stove in proper condition, and in the novel construction, combination, and arrangement of the parts, substantially as hereinafter described, and shown in the accompanying drawing, in which the figure is a vertical longitudinal section of my gas-stove.

In carrying out my invention I employ series of tubes A B and a base or bottom chamber *a* and a top chamber *a'*, the longer tubes A passing centrally through the shorter tubes B, and a sufficient space being left between the two series of tubes to provide water-jackets B' for the inner longer ones. The shorter water-jacket tubes B are connected to the upper and lower surfaces, respectively, of the chambers *a a'* and communicate therewith, while the longer tubes A pass through the said chambers and connect with the bottom and top of the latter, respectively.

The horizontal burner C, having apertures C', is disposed in the longitudinal base *a* and

projects through a corresponding orifice in the wall of the closure D, as shown.

Attached to the top of the stove is the pipe *b*, which in continuation projects horizontally at right angles, thence vertically downward, and opens into the water-tank E, where the steam is condensed. Pipe *b* is provided with a screw-cap *b'*, which is removed for insertion of water, and thereupon closed. Thus constructed, it will be observed that the condensed steam changed to water may be readily supplied to the stove, and that in all respects a very useful and efficient gas-stove is produced.

Having thus fully described my invention, I claim—

The gas-stove consisting of the upper and lower chambers, the shorter water-jacket tubes connected to the upper and lower surfaces thereof, respectively, the longer tubes passing through and spaced off from the shorter tubes and passing through said chambers and connected to the top and bottom of the latter, the serially-apertured burner-tube arranged at the bottom ends of the longer tubes, the right-angled pipe connecting with the chamber *a'* and having a plug-filled opening, and a vertical extension connecting with a condensing water-tank, all substantially as set forth.

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

THOMAS H. PAUL.

Witnesses:

JOSEF HAGMANN,
THOMAS E. TURPIN.