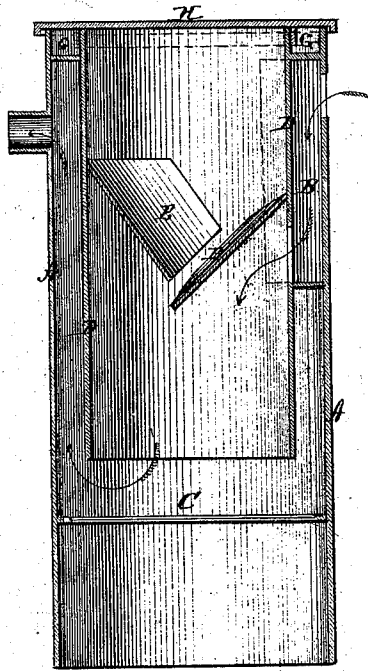


S. H. La RUE.
Magazine Stove.

No. 105,816.

Patented July 26, 1870.



Witnesses

Alex. ...
L. S. ...

Inventor
Silas H. La Rue
per Alexander Mason
Attys

United States Patent Office.

SILAS HOFFMAN LA RUE. OF ALLENTOWN, PENNSYLVANIA.

Letters Patent No. 105,816, dated July 26, 1870.

HEATING-STOVE.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, SILAS HOFFMAN LA RUE, of Allentown, in the county of Lehigh and in the State of Pennsylvania, have invented certain new and useful Improvements in Stoves; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists—

First, in placing the supply air-flue above the base of the fire-box;

Second, in the construction of contractors forming the throat of the magazine; and

Third, in introducing at the top of the stove a water-reservoir, in which the top is set.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which represents a longitudinal vertical section of my improved stove.

A represents the outside shell or cylinder of the stove, having an inside drum or cylinder, D, forming the magazine.

Between the two cylinders, A and D, is the supply air-flue B, which is so arranged as to enter above the base of the fire-box C, instead of in the base, as is usually the case.

The holes in the cylinders A D for this supply-flue may be opposite each other, or one above the other, as shown, only so that there will be a downward draught into the fire-box. The object of this is to produce combustion up to the point of the fire-box or maga-

zine at which the flue B enters, so that the gas generated in the new coal may be forced through the column of fire below, thereby more perfectly burning the fuel.

In the magazine D are placed two contractors, E E, of curved form, as shown, attached opposite each other and extending downward and inward, the one on the side where the supply air-flue B enters being directly against said entrance and below the other contractor, forming a throat in the magazine and causing the air supplied through the flue B to turn downward, as represented by arrows in the drawing. These will prevent the coal from igniting above the draught-flue.

In the top of the stove between the cylinders is formed a water-reservoir, G, in which the top H is set, to prevent the admission of air to the magazine, and also, by evaporation, to moisten the air of the room.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The contractors E E, constructed as described, forming the throat of the magazine D, substantially as and for the purposes herein set forth.

2. The combination of the cylinder A, reservoir G, air-flue B, magazine D, and contractors E E, all substantially as set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 3d day of May, 1870.

SILAS HOFFMAN LA RUE.

Witnesses:

T. B. LEISENRING,
K. WITTMAN.