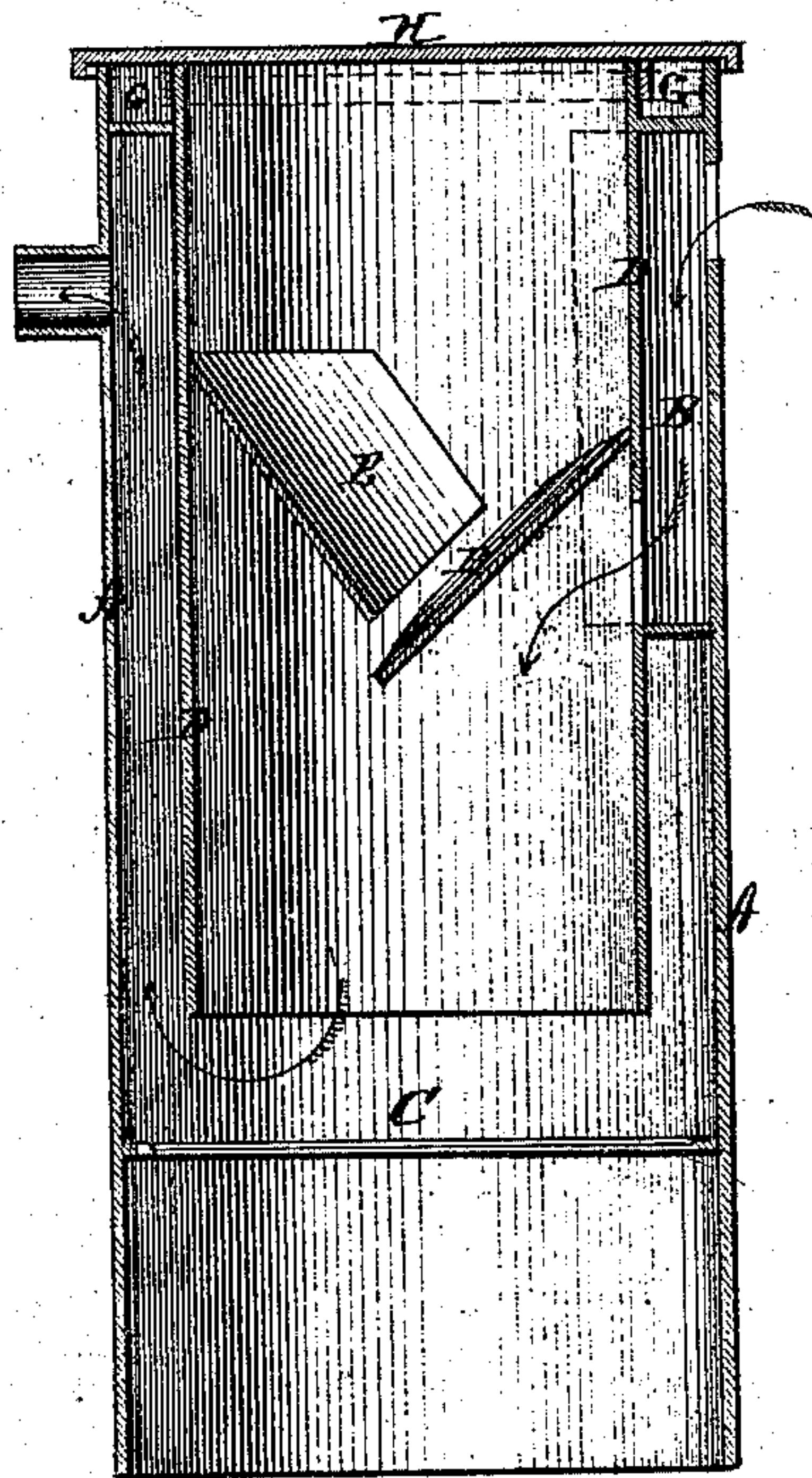


S. H. La RUE.  
Magazine Stove.

No. 105,816.

Patented July 26, 1870.



Witnesses

*A. J. Fontaine*  
*L. L. Curtis*

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.