

N. KEYSER.  
Heating Stove.

No. 90,852.

Patented June 1, 1869.

Fig. 1.

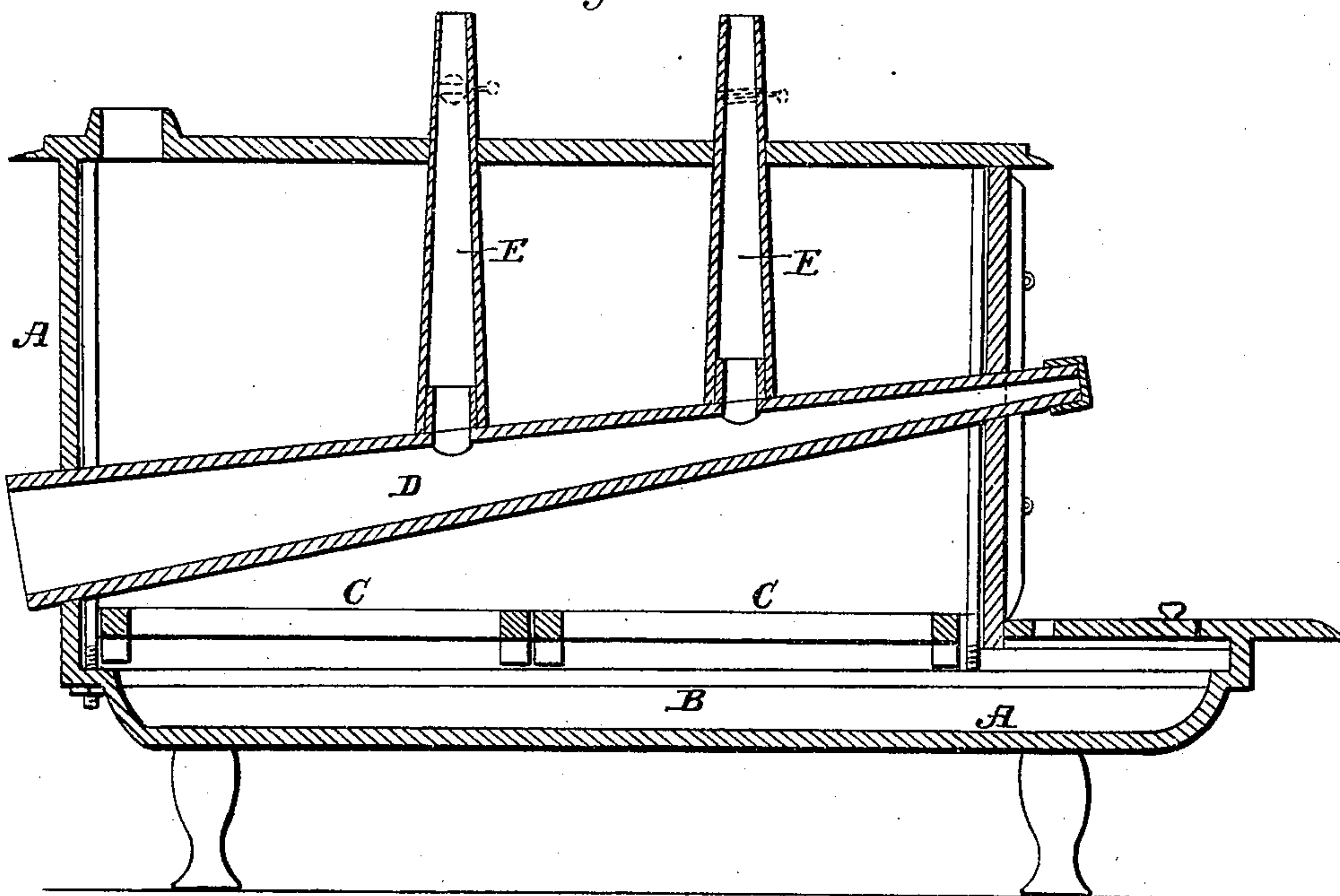
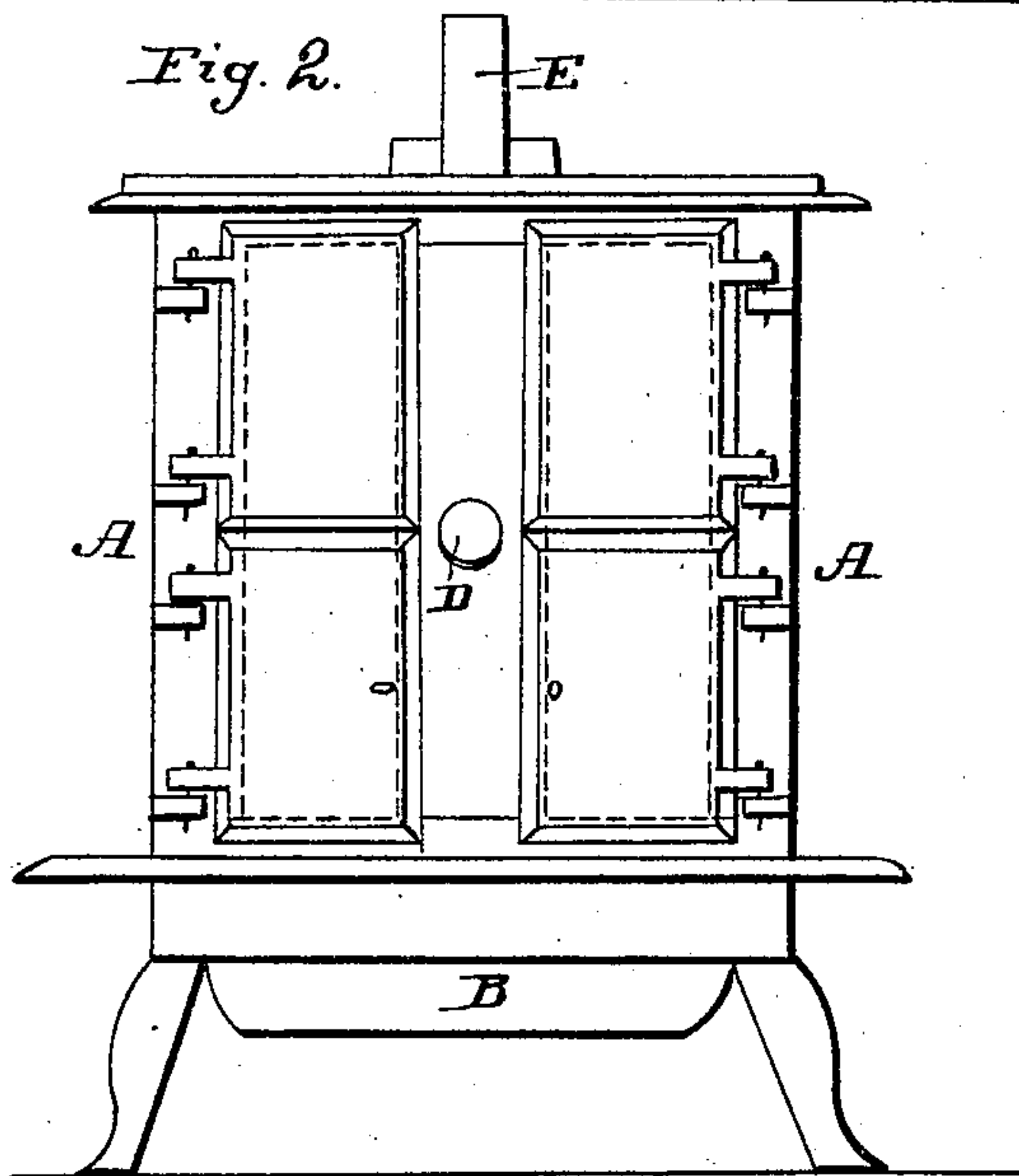


Fig. 2.



Witnesses:  
*Harry King*  
*Leopold Korb*

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*Alexander Mason*  
*Atty*

# United States Patent Office.

NATHANIEL KEYSER, OF NEWTON, IOWA.

Letters Patent No. 90,852, dated June 1, 1869.

## COAL-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, NATHANIEL KEYSER, of Newton, in the county of Jasper, and in the State of Iowa, 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 drawings, and to the letters of reference marked thereon.

The nature of my invention consists in providing a stove, with a pipe passing from rear to front, inside of the same, said pipe having one or more outlet-pipes, or tubes through the top of the stove, for the purpose of heating the same, or any other room, by means of the air, which, while passing through said pipes, becomes thoroughly heated from the fire in the stove.

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 drawings, which form a part of this specification, and in which—

Figure 1 is a longitudinal vertical section, and  
Figure 2 is a front elevation.

A represents a stove, of any size and shape;  
B is the ash-box; and  
C, the grate.

Through the centre of the stove A is placed a tapering pipe, D, which passes from the rear to the front of the stove, the rear end of said pipe, which is the larger, being depressed or placed just above the rear end of the grate C, while the front end, which is the smaller, passes out about half way between the grate and the top of the stove.

Both ends of the pipe D pass through the stove,

and are open. The front end may, however, be closed by a cap, as represented in the drawings.

When a fire is lighted in the stove, the cold air in the room will enter the lower rear end of the pipe D, and pass out through the upper front end, becoming thoroughly heated in its passage through the pipe.

The hot air rising, will crowd the cold air downward in the room, and force it through the pipe, and the pipe, being tapering, will cause a continuous current of air through the same.

By this means, the room may be heated with less fuel than is ordinarily used, and by covering the pipe with coals and ashes, the room may be kept warm during the entire night.

To heat rooms above the one in which the stove is placed, one or more pipes E may be placed to lead from the pipe D, through the top of the stove, and thus conduct the heated air to any point desired.

The pipes E E may be provided with dampers, as shown in red in fig. 1, to regulate the amount of hot air distributed.

Having thus fully described my invention,

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

The arrangement of the inclined tapering pipe D, tubes E E, grate C, and ash-box B, within the stove A, substantially as set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 26th day of January, 1869.

NATHANIEL KEYSER.

Witnesses:

I. A. HANNER,  
S. G. SMITH.