

(No Model.)

J. MAHEDY.
HEATER.

No. 571,135.

Patented Nov. 10, 1896.

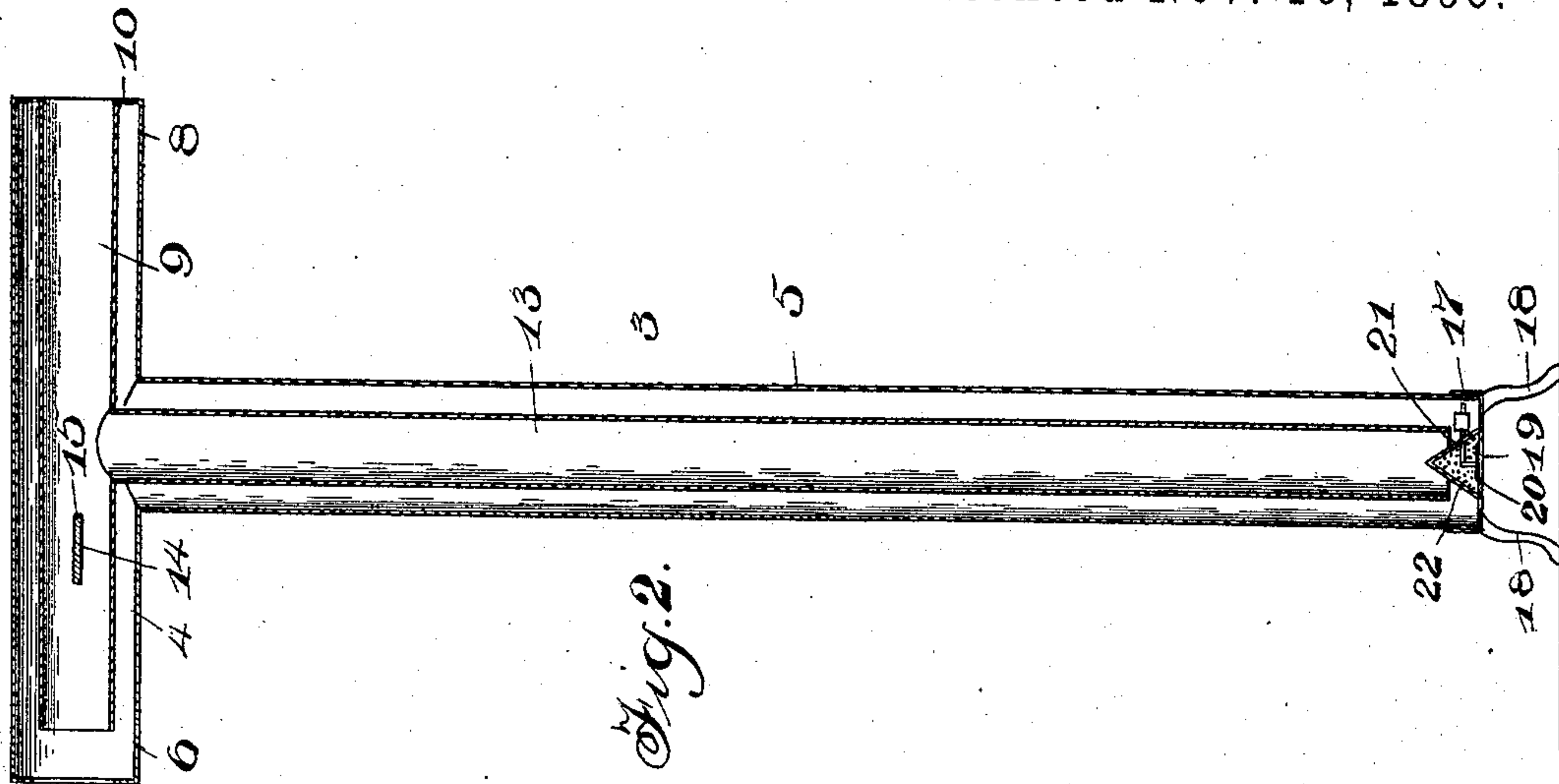


Fig. 2.

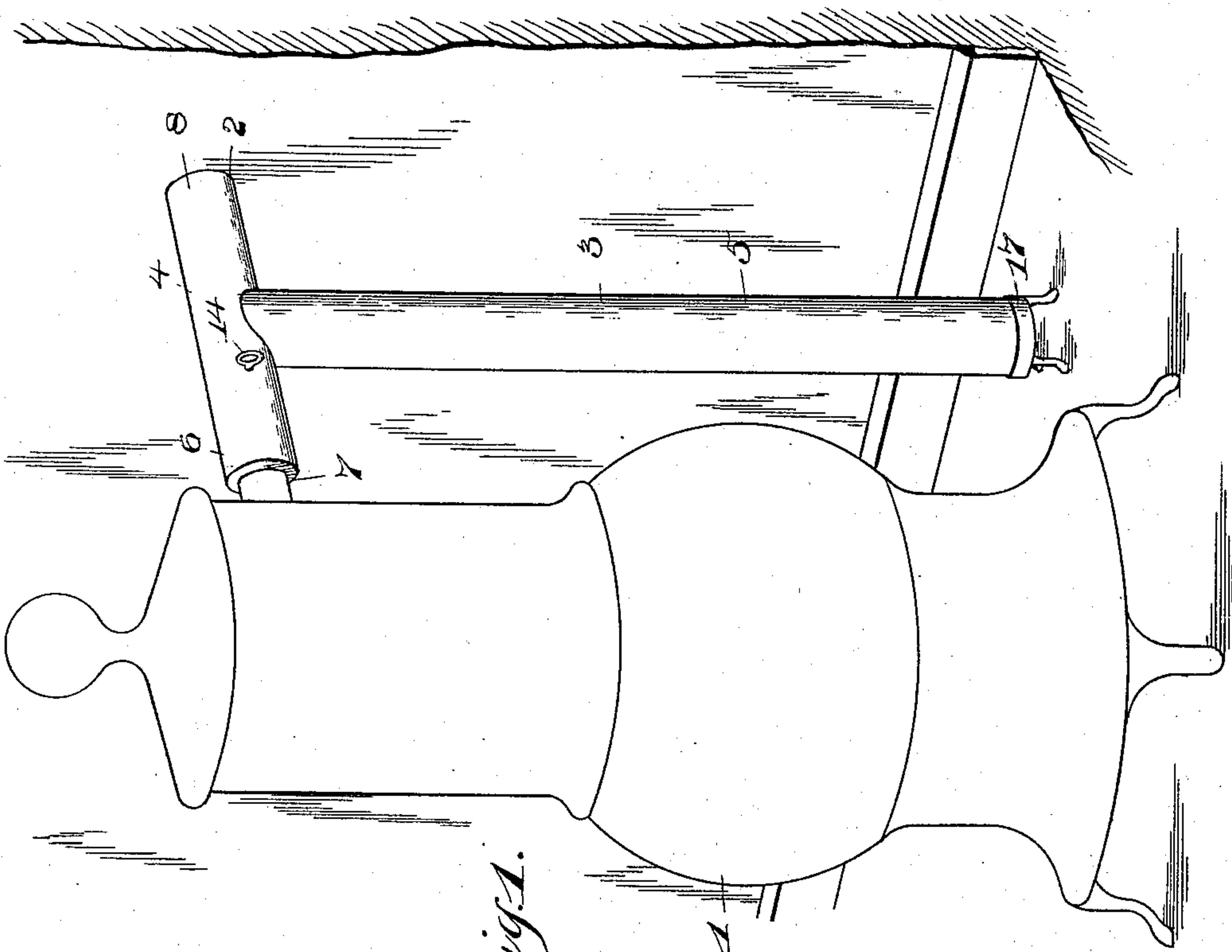


Fig. 1.

Witnesses:

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UNITED STATES PATENT OFFICE.

JAMES MAHEDY, OF KELLERTON, IOWA.

HEATER.

SPECIFICATION forming part of Letters Patent No. 571,135, dated November 10, 1896.

Application filed July 29, 1896. Serial No. 600,895. (No model.)

To all whom it may concern:

Be it known that I, JAMES MAHEDY, a citizen of the United States, residing at Kellerton, in the county of Ringgold and State of Iowa, have invented certain new and useful Improvements in Heaters; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to improvements in auxiliary heaters for stoves, and the object is to provide a simple, cheap, and convenient heater for ordinary wood and coal burning stoves; and to this end the novelty consists in the construction, combination, and arrangement of the same, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings the same figures of reference indicate the same parts of the invention.

Figure 1 is a perspective view of my improved heater as it appears connected to an ordinary stove, and Fig. 2 is a longitudinal section of the heater detached from the stove.

1 represents an ordinary stove, and 2 the inlet in the chimney or flue.

3 is the heater, and it consists of a horizontal cylindrical shell 4 and a depending vertical cylindrical chamber 5, secured thereto at its upper end about midway of the shell 4. The front end 6 of the horizontal shell 4 is connected to the draft-pipe 7 of the stove 1, and its opposite end 8 is connected to the flue or chimney 2. A smaller cylindrical pipe 9 is secured at one end to the flange 10 of the end 8, extending centrally inside of the shell 4 to within a short distance of its opposite end 6, so as to leave a space between the end of the pipe 9 and the flange 12 of the shell 4 about equivalent to the area of the pipe 9, which is about the same as the area between the outside of said pipe and the inside diameter of the shell 4.

Depending from the pipe 9 and communicating with it internally is a vertical pipe 13, located inside of the chamber 5 and extending downwardly to within a few inches of its end.

14 is a shaft extending through the pipe 9 and shell 4, and mounted on said shaft, inside of the pipe 9, is an ordinary damper 15, which may be operated to open or close the passage in said pipe by a handle 15. The lower end of the chamber 5 is provided with a removable cover 17, by means of which access may be had to the interior of the pipe 13 and chamber 5 to remove the soot and ashes.

18 18 represent the legs which serve to support the weight of the heater when attached to the stove.

The cover 16 is provided with an orifice 19, normally closed by a balance-disk 20, mounted on the end of a lever 21, fulcrumed in the side of the conical perforated hood 22.

When the damper is in position, as shown in Fig. 2, the draft from the stove passes direct to the flue through the horizontal pipe 9; but if the damper be partially or wholly closed a part of or the entire draft passes around the outside of the pipe 9, down the chamber 5 on the outside of the vertical pipe 13, thence upwardly through the interior of the pipe 13 into the horizontal pipe 9, and thence outwardly into the flue.

When there is a strong draft, the disk 20 will open inwardly and draw the heavy, damp, and foul air from the room.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is—

A heater, comprising the horizontal shell 4, the chamber 5, connected therewith, the horizontal pipe 9 located in said shell 4, and provided with the damper 15, the vertical pipe 13 located in said chamber and communicating with said horizontal pipe, and the cover 17, removably secured to the lower end of said chamber, and provided with the orifice 19, the conical perforated hood 22, and the lever 21 mounted in the side of said hood and provided with the disk 20, substantially as shown and described.

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

JAMES MAHEDY.

Witnesses:

L. R. WILSON,
W. L. GLEASON.