

JOHN C. CHAPMAN.

Heating Stove.

No. 122,993.

Patented Jan. 23, 1872.

Fig. 1.

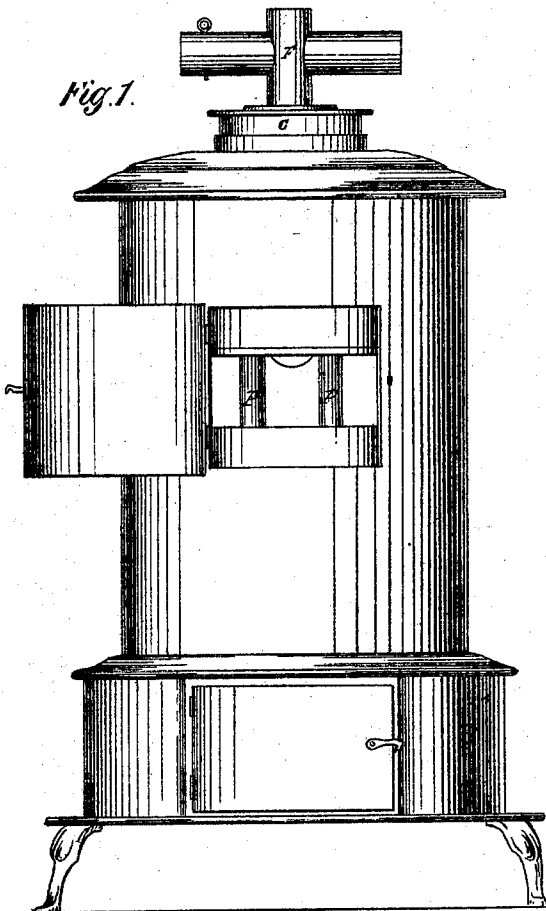


Fig. 2.

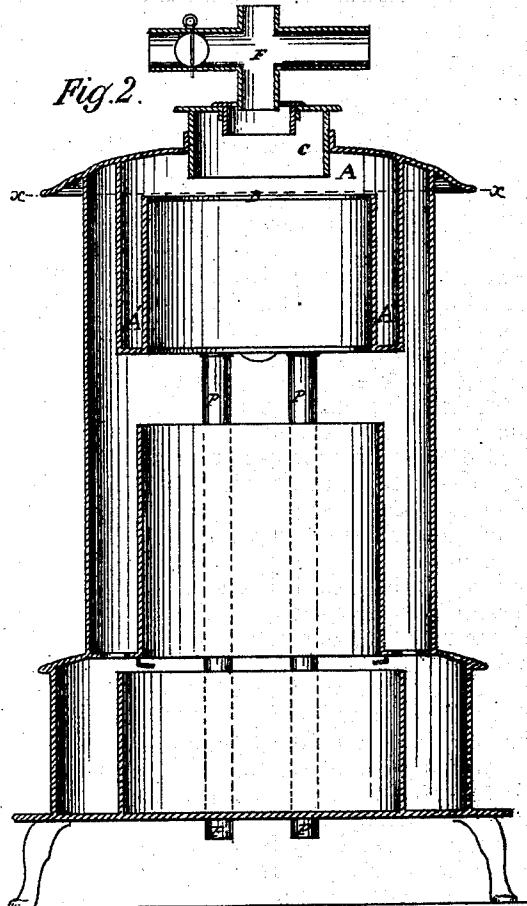
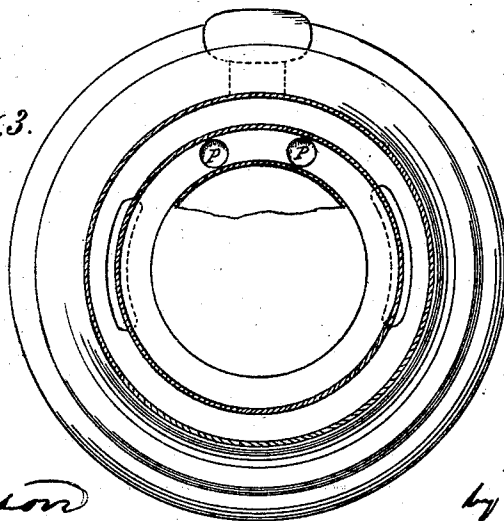


Fig. 3.



Witnesses:

Fred. A. Fos-
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Inventor:

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by his atty.
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UNITED STATES PATENT OFFICE.

JOHN C. CHAPMAN, OF WALTHAM, MASSACHUSETTS.

IMPROVEMENT IN HEATING-STOVES.

Specification forming part of Letters Patent No. 122,993, dated January 23, 1872.

To all whom it may concern:

Be it known that I, JOHN C. CHAPMAN, of Waltham, in the State of Massachusetts, have invented a new and valuable Improvement in Air-Chambers for Stoves and Furnaces, of which the following is a clear, full, and exact description, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a front view of a stove with my improved air-chamber attached. Fig. 2 is a vertical section of the same. Fig. 3 is a bottom view of same, showing the connection with the cold-air pipes.

To enable others skilled in the art to use and understand my invention, I will proceed to explain the exact manner in which I have carried it out.

A is an annular or cup-shaped air-chamber, placed within or upon the top of a stove or furnace and over the fire-chamber, with the annular or rim portion, A', turned downward so as to catch and receive the full force of the heat. Connecting with this air-chamber are one or more (I generally use two) cold-air pipes leading down through the stove or furnace to its bottom. These pipes P P are open at their lower ends, and, communicating with the cold

air, admit a free passage for it into air-chamber above. Into the top of the air-chamber A fits snugly the adjustable cap C, which slides and rests upon the inner plate D of the air-chamber. It is evident that when the cap C rests upon the plate D the heated air cannot pass from the air-chamber into the funnel F, to be led off into other apartments. The draught is perfectly closed. It is then only necessary to raise the cap C to admit the heated air into the funnel; and the amount of heated air permitted to pass off is readily adjustable by raising or lowering the adjustable cap C. The air-chamber forms a convenient oven. On the top of cap C I place the funnel F, which connects with the pipes leading, as may be desired, into other rooms or apartments.

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

The air-chamber A, constructed as described, in combination with the adjustable cap C, funnel F, and one or more pipes, P P, substantially as and for the purpose set forth.

JOHN C. CHAPMAN.

Witnesses:

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EDWARD P. STARBUCK.