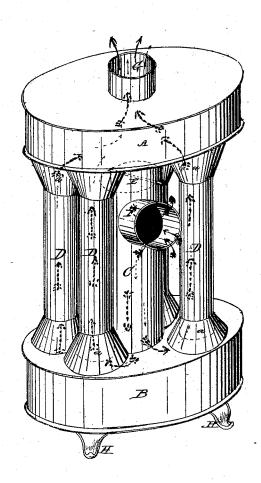
C. FISHER. Heating Drum.

No. 113,413.

Patented Apr. 4, 1871.



adellerele_ ChanD. Moory

Inventor. Scharles Frisher, by Prindle W Byer, Attys.

United States Patent Office.

CHARLES FISHER, OF NILES, MICHIGAN, ASSIGNOR TO HIMSELF AND HENRY N. WILCOX, OF SAME PLACE.

Letters Patent No. 113,413, dated April 4, 1871.

IMPROVEMENT IN STOVE-DRUMS.

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, Charles Fisher, of Niles, in the county of Berrien and in the State of Michigan, have invented certain new and useful Improvements in Stove-Drums; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making a part of this specification, which drawing is a perspective elevation of my stove-drum. The arrows show the course of the products of combustion when the damper is closed.

The nature of my invention relates to improvements in the construction of stove-drums intended to be used in rooms adjoining that in which the stove is placed, and also in rooms above; and consists in the combination of an upper and a lower radiating-chamber with vertically-arranged connecting-flues, and in the arrangement of the opening for the connecting smoke-pipe upon the upper portion of the central flue between the upper and lower radiating-chambers, all of which as more fully hereinafter set forth.

In the drawing-

A represents the upper radiating-chamber, and

B the lower.

The tops and bottoms of these chambers are similar, and in parallel planes.

The wall of the chamber is a band joined to the

top and bottom.

These radiating-chambers are connected by a set of pipes or flues vertically arranged. There is a central larger pipe, C, and surrounding smaller pipes D D D.

The pipes D D D D have around their tops and bottoms collars a, which, in their general form, are similar to the base and cap of a column, and serve to

brace and strengthen the pipes.

In the central flue C there is inserted near the upper end and above the connection with the pipe leading from the stove, a damper, E, which permits the products of combustion to pass directly to the chim-

ney when turned in one direction, or indirectly through the radiating-chambers A and B and the flues C and D D D D when turned in the other direction.

Near the upper end of the central flue C and below the damper E is an opening, F, provided with a suitable collar, into which is inserted the pipe leading from the stove, or any intermediate stove-drum.

On the top of the upper radiating-chamber is an

exit-pipe or flue, G.

The drum is supported by suitable legs, H.

In operating this stove-drum, if it is desired to increase the draught, or to lessen the heat, the damper E is opened and the products of combustion will pass directly upward through the upper radiating-chambers to the exit-flue. But if, after the fire has become well lighted, it is desired to increase the heat in the room in which the stove-drum is placed, the damper E is closed and the products of combustion are directed downward, as indicated by the arrows through the central flue C; thence through the lower radiating-chamber B; thence upward through the flues D D D D; thence into and through the upper radiating-chamber; and thence out the exit-flue G.

Having thus described my invention, What I claim as new therein is—

The stove-drum described and shown, provided with the radiating-chambers A and B, the vertical connecting-flues C and D, the smoke-pipe opening F, the damper E, and the exit-pipe G, all constructed and arranged substantially as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 16th day of January,

CHAS. FISHER.

Witnesses:

DAVID BACON, JOHN KING.