

C. E. Russell

Heating Drum

N^o 65,770.

Patented Jun. 11, 1867.

Fig. 1.

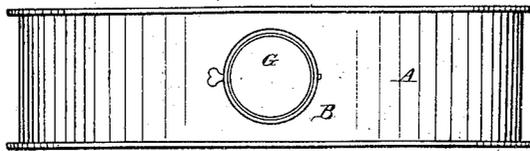
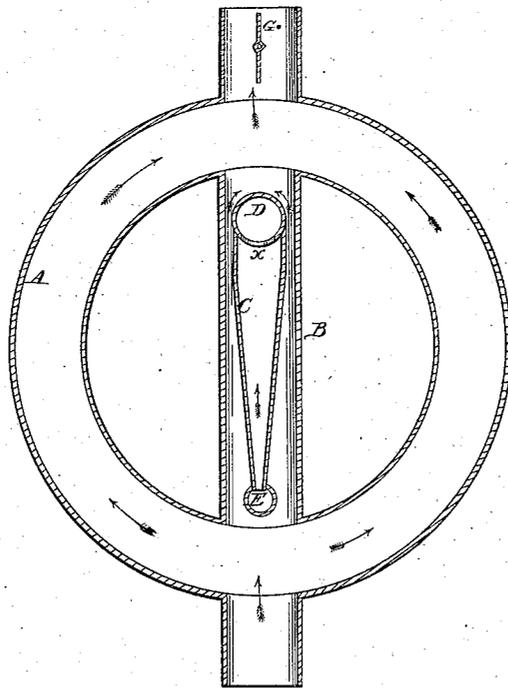


Fig. 2.



Witnesses:

*A. V. Mann
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Inventor:

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per
Alexander & Gibson
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United States Patent Office.

CHARLES E. RUSSELL, OF JACKSONVILLE, ILLINOIS.

Letters Patent No. 65,770, dated June 11, 1867.

STOVE-PIPE DRUM.

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 E. RUSSELL, of Jacksonville, in the county of Morgan, and in the State of Illinois, have invented certain new and useful improvements in "Heat Radiators;" 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, making a part of this specification.

In the annexed drawings, A represents a square pipe, made in the form of a circle, and through which passes the stove pipe B. The pipe B has two small horizontal tubes D and E within the inner circle of the radiator A. C represents a conical-shaped tube, extending from the tube D to the lower tube E, and opening into it, having its larger opening at the tube D. It will be seen that the pipe B extends both below and above the outer circumference of the radiator pipe A, and is provided with a suitable damper, G, at the top. This invention is, by means of its pipe B, attached to the stove in the usual manner, and when the damper G is open allows the products of combustion to freely pass up the pipe B outside of the cone C around the tube D and up the chimney. It will be seen that the top of the cone or air-chamber C is not as large as the inner circumference of the pipe, so there is an opening around it for the draught to pass up the chimney. The cold air having free access, enters at both sides of the small tube E, passes into the cone C, where, becoming therein heated, it expands with the shape of the cone and rises through the opening X in the tube D, striking the top of tube, circulates through the room. It will thus be seen that there is a continual current of air passing in and out the cone.

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

The arrangement of the annular radiator A and pipe B, provided with its tubes D E, and conical pipe C, in the manner substantially as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 13th day of February, 1867,

CHARLES E. RUSSELL.

Witnesses:

R. C. SMITH,

J. CLEMENT.