

L. GILL.
RADIATOR.

No. 174,801.

Patented March 14, 1876.

Fig. 1.

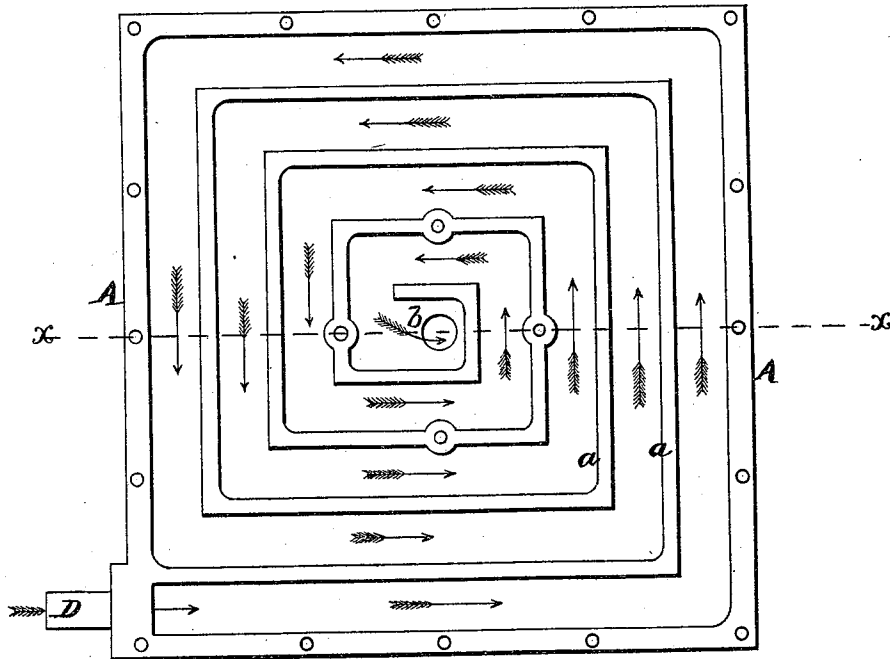
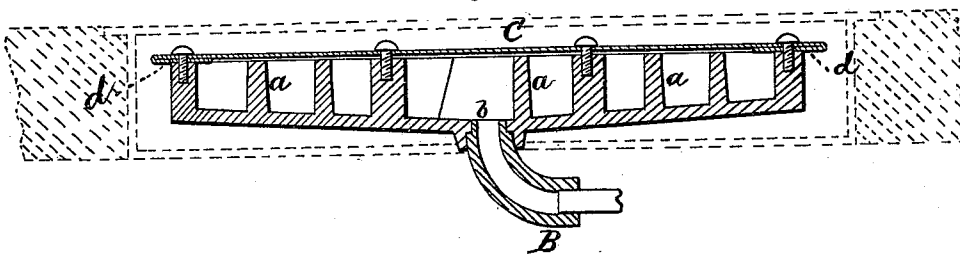


Fig. 2.



WITNESSES

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LUCIUS GILL, OF WATERTOWN, NEW YORK.

IMPROVEMENT IN RADIATORS.

Specification forming part of Letters Patent No. **174,801**, dated March 14, 1876; application filed January 20, 1876.

To all whom it may concern:

Be it known that I, LUCIUS GILL, of Watertown, in the county of Jefferson and in the State of New York, have invented certain new and useful Improvements in 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.

My invention relates to steam-heating apparatus; and it consists in the construction and general arrangement of a radiator, to be placed in the floor of the room to be heated, out of sight, and the heat to escape into the room through a register, as will be hereinafter more fully set forth.

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 drawing, in which—

Figure 1 is a plan view of my radiator with the top removed. Fig. 2 is a vertical section of the same, through the line *xx*, Fig. 1, with the top in place.

My steam-radiator is made in the form of a pan, A, of cast-iron, square, or any other suitable shape to suit the room to be heated. It is formed with interior flanges *a a*, forming a scroll, and all cast in one piece. The bottom of the pan is made slightly concave, so as to have a gentle inclination from the circumference downward to the center, and the flanges *a* are made tapering, wider at the bottom and narrower at the top. The scroll-flanges commence at one edge of the pan or bottom of radiator and run around a certain distance

apart, from the edge of the pan and from each other, until they come to the center, where there is an aperture, *b*, communicating with a pipe, B, for the exit of the steam and water of condensation.

The top C is made of sheet-iron, of sufficient weight to be secure, and is well bolted to the outer flange, and to one or more of the inner flanges, and is provided with packing *d* around the edges.

The steam enters through a pipe, D, at the outer end of the passage, and passes around the scroll-flange to the center.

This radiator is intended to be placed in a suitable tight box in the floor, with a register on top, and in some cases I may admit hot air into said box, so that both the heat from the radiator and the hot air may escape through the register.

By this construction of radiator, I dispense with the radiators up in the room.

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

The within-described horizontal steam-radiator, consisting of the cast-iron pan A, with concave bottom, and interior tapering flanges *a*, arranged in scroll-form, the cover C, inlet D, and center outlet B, all constructed to be placed in the floor of a room, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 16th day of December, 1875.

LUCIUS GILL. [L. S.]

Witnesses:

GEO. SMITH,
CLARK WITHERBY.