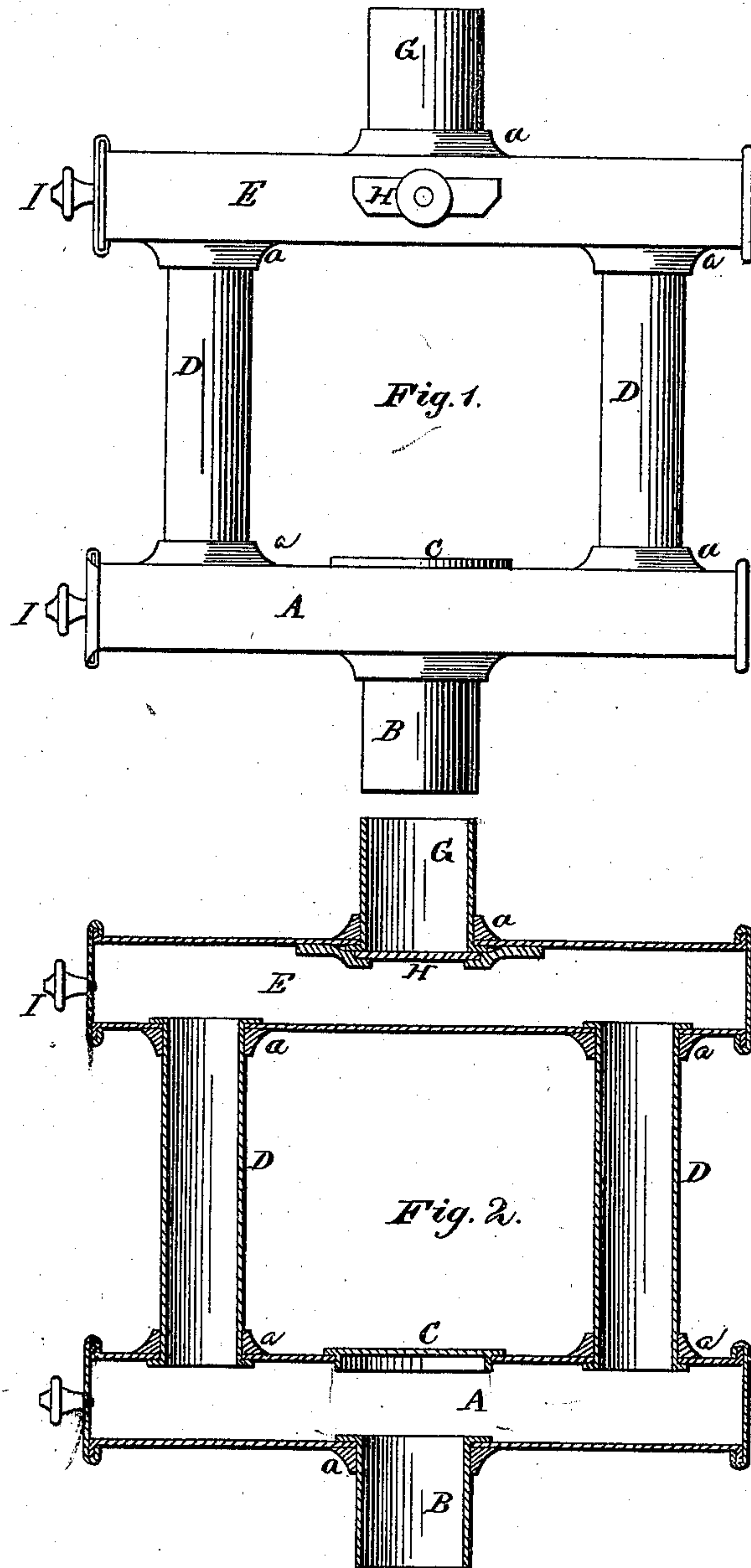


C. ILLING.  
HEATING-DRUM.

No. 173,642.

Patented Feb. 15, 1876.



WITNESSES

Henry N. Miller By  
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# UNITED STATES PATENT OFFICE.

CHARLES ILLING, OF JEFFERSON, WISCONSIN.

## IMPROVEMENT IN HEATING-DRUMS.

Specification forming part of Letters Patent No **173,642**, dated February 15, 1876; application filed January 21, 1876.

*To all whom it may concern:*

Be it known that I, C. ILLING, of Jefferson, in the county of Jefferson and in the State of Wisconsin, have invented certain new and useful Improvements in Heaters; 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.

The nature of my invention consists in the construction and arrangement of a radiator for heating purposes, which may also be used for cooking, 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 side elevation of my radiator; and Fig. 2 is a longitudinal vertical section of the same.

A represents a chamber of any suitable dimensions provided in the center on its under side with a collar or pipe, B, to be fitted on the ordinary stove-pipe collar of a stove. In the top of the chamber A, directly above the pipe B, is an opening, over which is placed a lid, C, to be removed when desired, and a griddle or other cooking utensil placed in said opening for cooking purposes. The chamber A is, by two or more vertical hollow columns, D D, connected with a similar chamber,

E, on top, and in the center of the upper side of this latter chamber is a collar or short pipe, G, to be connected with the stove-pipe. At the bottom, or in the collar or pipe G, is a damper, H, as shown.

The products of combustion passing up into the chamber A fill the same, and pass thence through the columns D up into the top chamber E, and out through the stove-pipe, radiating heat during its passage to heat the room.

In each chamber is a sliding or other door, I, for the purpose of cleaning out said chamber.

At the point of connection between the chambers and the columns and pipes are secured cast-iron rings *a a* to form proper joints.

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

The combination of the chambers A E, connected to the pipes or hollow columns D D by the cast-iron rings *a a*, and provided with inlet and outlet pipes B G, also connected by the cast-iron rings *a*, and the chamber A provided with an opening for the insertion of a cooking utensil, as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 18th day of December, 1875.

CHARLES ILLING.

Witnesses:

R. B. KIRKEAND,  
W. H. ROGERS.