

J. B. OLDERSHAW.

Heating Drum.

No. 72,074.

Patented Dec. 10, 1867.

Fig. 1.

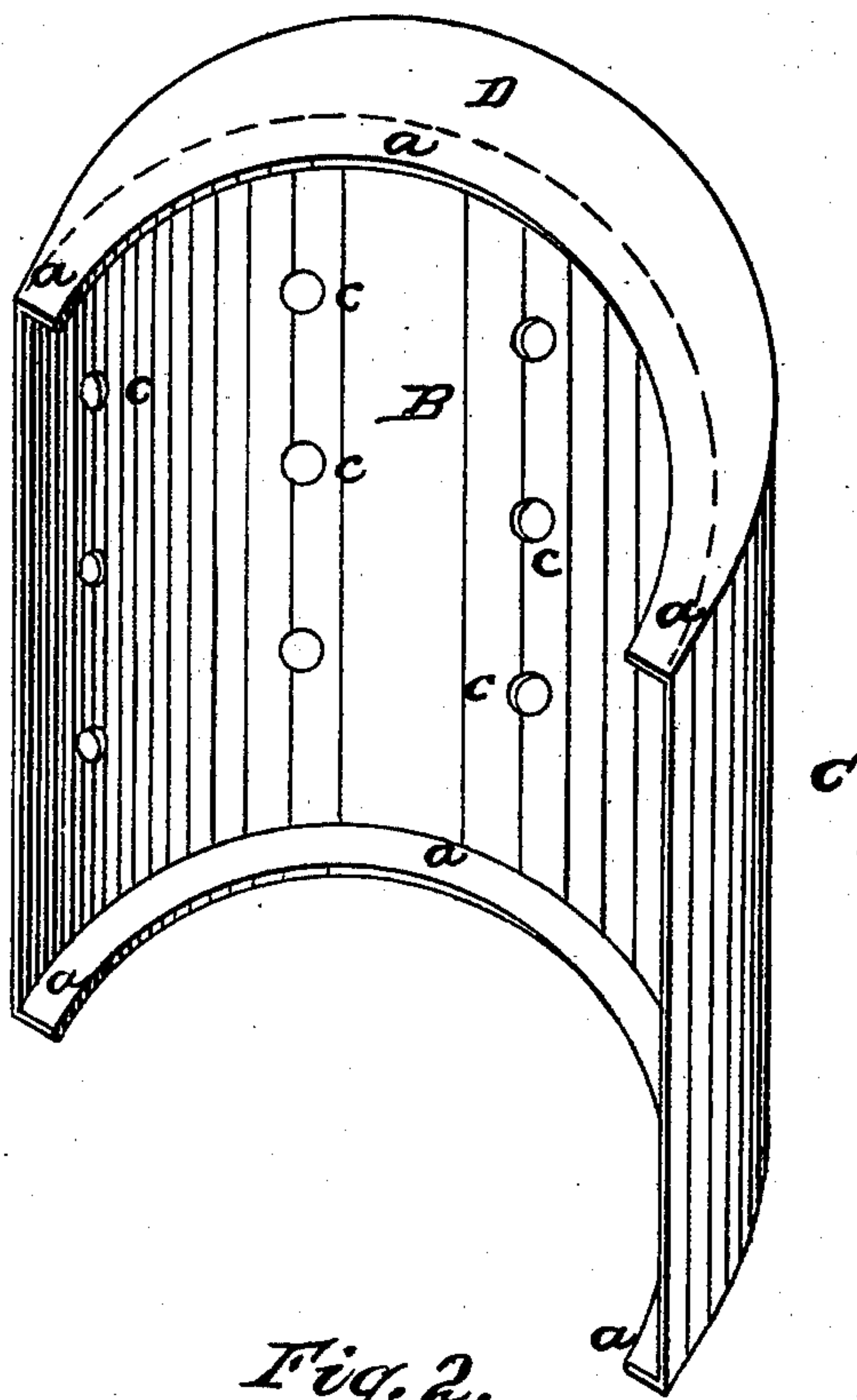
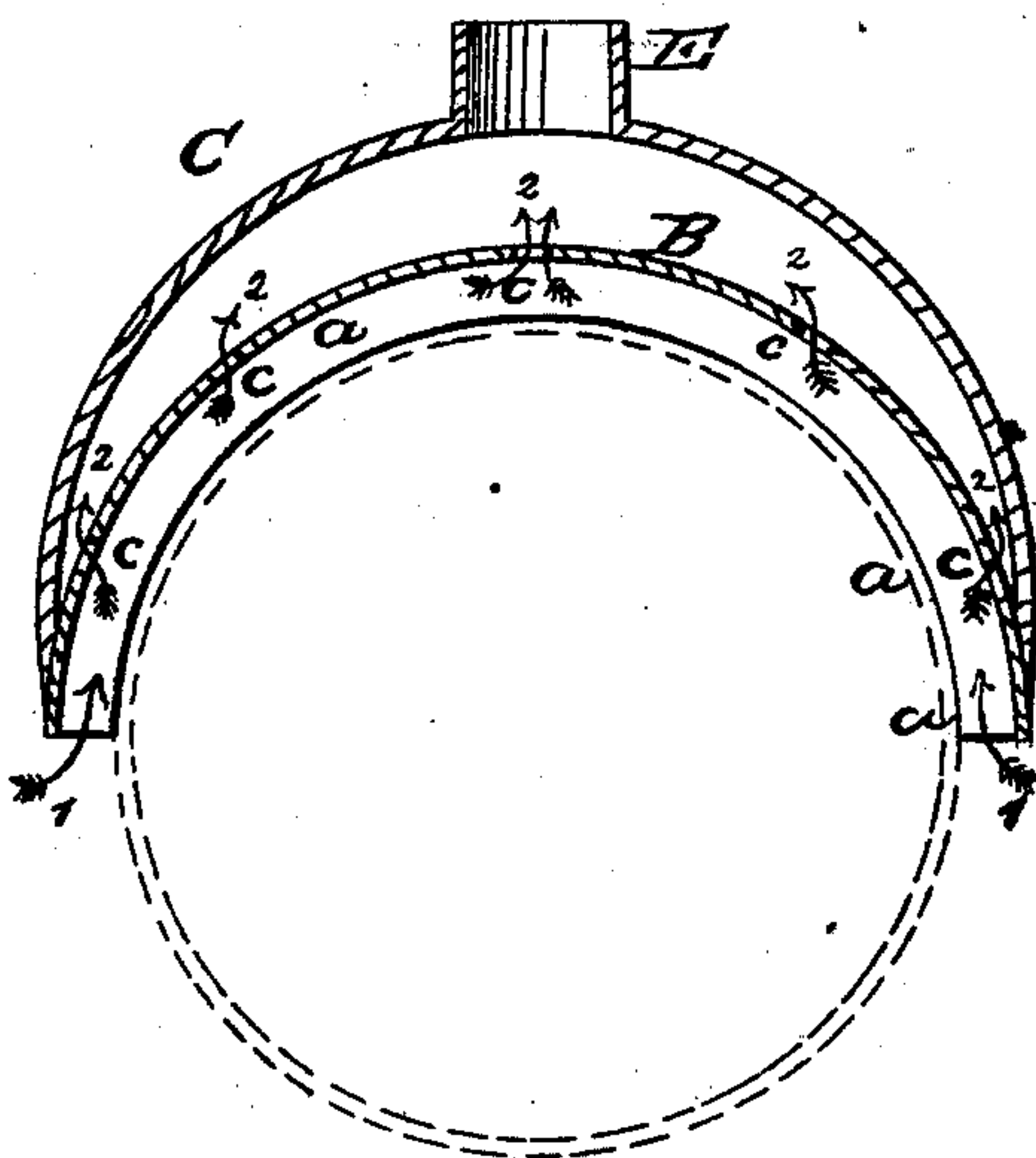


Fig. 2.



Witnesses.
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United States Patent Office.

JOHN B. OLDERSHAW, OF BALTIMORE, MARYLAND.

Letters Patent No. 72,074, dated December 10, 1867.

PORTABLE HOT-AIR CONDUCTOR.

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, JOHN B. OLDERSHAW, of the city of Baltimore, and State of Maryland, have invented certain new and useful Improvements in a Portable or Removable and Replaceable Hot-Air Receiver and Conductor, for heating apartments; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a perspective view of the apparatus, and

Figure 2 represents a horizontal section through the same.

I am aware that many contrivances have been essayed for taking the radiated heat from a stove, and conveying it to apartments above for heating purposes, but in all these cases the stove itself is a part of the contrivance, or the apparatus is so connected to the stove or fireplace as not to be removable without disturbing or disarranging the stove or fireplace, or some of its parts. I do not take the radiated heat from the stove or products of combustion immediately, but take it from the room or apartment in which the stove or fireplace is used, and in close proximity to the stove or fireplace; and the apparatus may be put in place or removed without disturbing the stove or fireplace, it having no permanent connection with them.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

I make a crescent-shaped chamber, A, composed of two jackets, B C, and two end pieces, D, each with a projecting flange, *a a*, and with an exit-pipe, E, whence the hot air gathered in the chamber is conveyed to the apartment to be warmed by it. The red lines in fig. 2 may represent an ordinary stove, to which the receiver and conductor is applied. It may be supported on any of the projecting portions of the stove, or held to it by a wire or band of metal, or rest upon legs, or otherwise independent of the stove. The flanges *a a*, at the top and bottom of the chamber, rest against the stove or fireplace, which leaves a space of some three inches, more or less, between the jacket B and the stove, and also spaces at each side the whole height of the receiver, through which spaces the heated air, from the room around or near the stove, enters into the space between the receiver and the stove, as shown by the red arrows 1 1. The jacket B has a series of holes, *c c c*, through it, and heated air enters the chamber A through said holes, as shown by the red arrows 2 2, &c., and thence passes through the pipe or opening E, and by any ordinary pipe, up to the room to be heated. A damper may be put in the pipe E, to control or shut off the hot air, when desired to do so.

One or more of these crescent-shaped receivers may be used in connection with the stove, and are usually placed around or near the portion where the fire is. They may be cheaply made of sheet metal, and easily applied and removed.

Having thus fully described my invention, what I claim, is—

A portable hot-air receiver and conductor, constructed, arranged, and operating in connection with a stove, for the purpose of heating apartments above it, substantially as described.

J. B. OLDERSHAW.

Witnesses:

A. B. STOUGHTON,

EDM. F. BROWN.