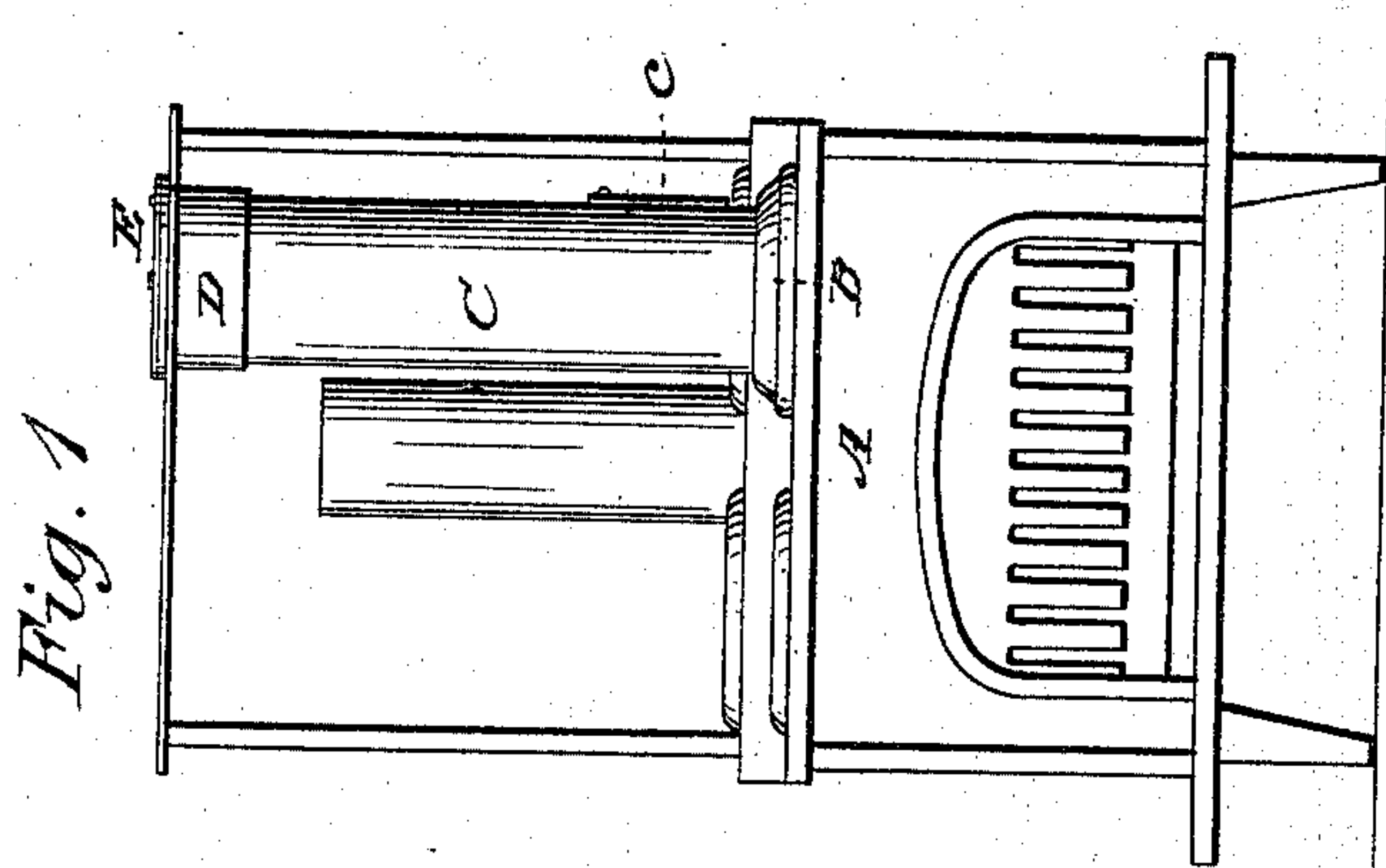
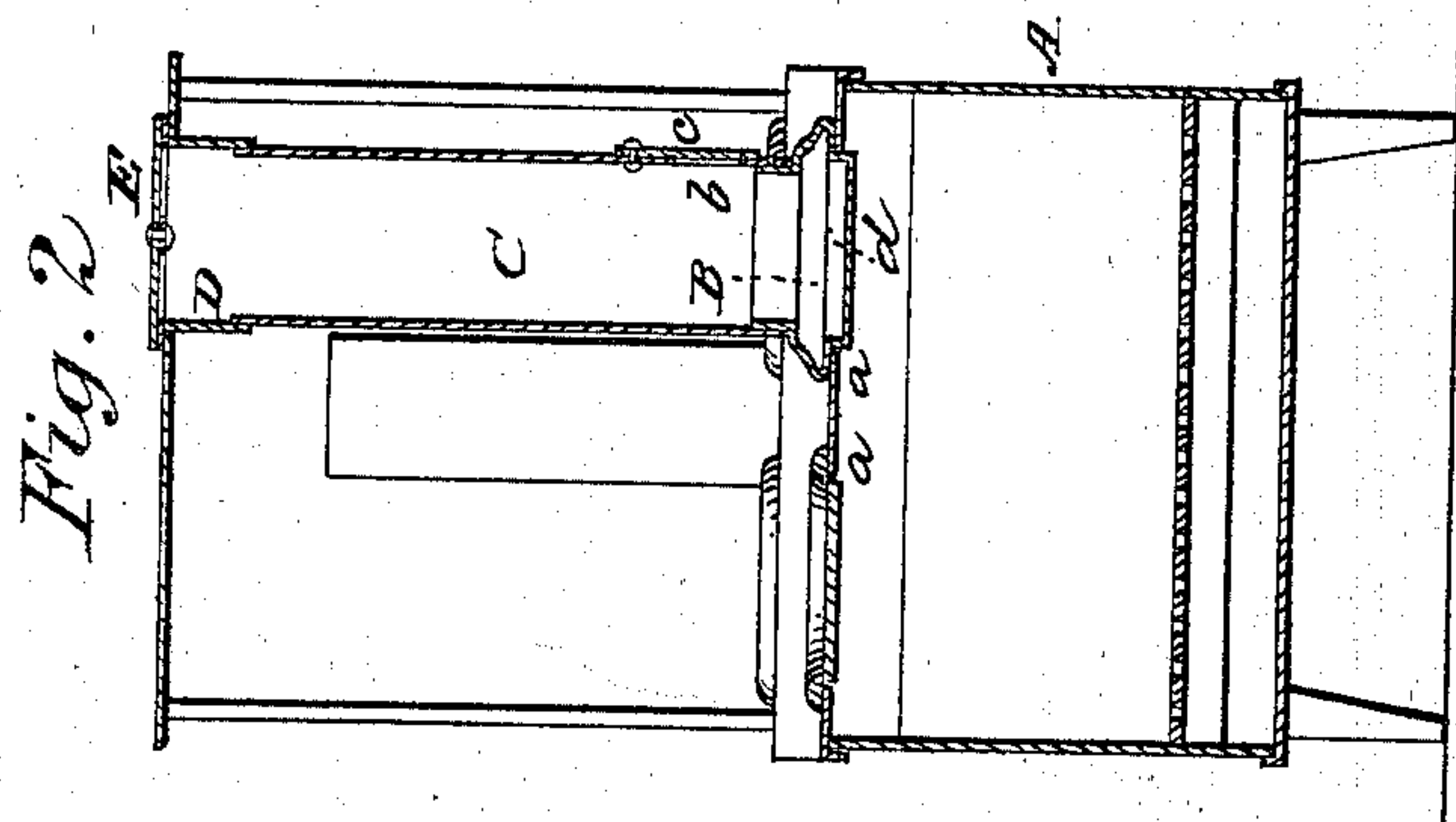


S. G. PIPER.
Heating Drum.

No. 60,054.

Patented Nov. 27, 1866.



Witnesses:
L. H. Haskell
Samuel G. Piper

Inventor:
Samuel G. Piper
by his attorney
R. M. Eddy

United States Patent Office.

IMPROVEMENT IN COOKING STOVES.

SAMUEL G. PIPER, OF LYNN, MASSACHUSETTS.

Letters Patent No. 60,054, dated November 27, 1866; antedated November 22, 1866.

SPECIFICATION.

TO ALL PERSONS TO WHOM THESE PRESENTS SHALL COME:

Be it known that I, SAMUEL G. PIPER, of Lynn, in the county of Essex, and State of Massachusetts, have invented a new and useful or improved Air-Heating Apparatus for Stoves; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a front elevation of a cooking stove, with my invention applied to it.

Figure 2 is a vertical section of the same.

In the said drawings, A represents a cooking stove of any ordinary kind, having one or more openings, *a*, in its top for the reception of one or more boilers, or pans, for heating or steaming articles to be cooked. B is a hollow base, or vessel, made with a bottom, *d*, and to fit upon or into and be supported by one of the said boiler openings. From the said vessel, B, a pipe or hollow column, C, ascends to the ceiling of the apartment and opens into the case D, of a register, E, such register and its case being arranged in the floor of the apartment next above the one in which the stove may be placed. There is an air-hole or passage, *b*, made in the lower part of the pipe, C, such hole having a cover, or damper, *c*, duly applied to it.

The purpose of my invention is to heat the apartment over that in which the stove may be situated, and this will be accomplished by the heat of the fire in the stove being directed against the bottom, *d*, of the vessel, B; for on such being heated, it will cause a rarefaction of air within the pipe, C, to take place. The air so rarefied will pass up through the receiver, and cooler air will enter the pipe through the passage, *b*, which in turn being heated will rise up and pass through the register. The amount of heat which can be introduced into an apartment by this simple apparatus is much greater than most persons would imagine. In this way the waste heat of the fuel of a stove, or that not wanted for cooking purposes, may be utilized or employed for warming a room. I do not claim the combination of an air-conduit, and a register applied to one extremity of it, but—

I claim as my invention the combination and arrangement of the vessel B and the air-conduit C, provided with an air-receiving passage *b*, and a register arranged with respect to it as described, the whole being for application, as explained, to a stove and to the floor of an apartment over that in which the stove may be situated.

S. G. PIPER.

Witnesses:

R. H. EDDY,

F. P. HALE, Jr.