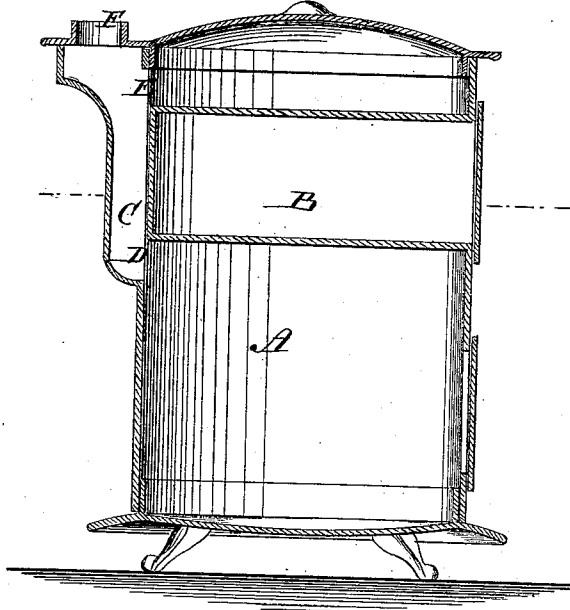


EMERY, Jr., & CASTLE.  
Cooking Stove.

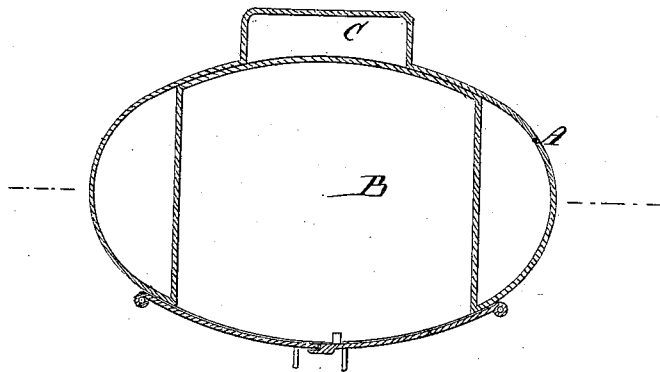
No. 111,622.

Patented Feb. 7, 1871.

*Fig. 1*



*Fig. 2*



Witnesses:

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*G. D. Castle*  
PER *Mmm*  
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# United States Patent Office.

SAMUEL H. EMERY, JR., AND CHAUNCEY H. CASTLE, OF QUINCY, ILLINOIS.

Letters Patent No. 111,622, dated February 7, 1871.

## IMPROVEMENT IN HEATING-STOVES.

The Schedule referred to in these Letters Patent and making part of the same.

### *To all whom it may concern:*

Be it known that we, SAMUEL H. EMERY, Jr., and CHAUNCEY H. CASTLE, of Quincy, in the county of Adams and State of Illinois, have invented a new and useful Improvement in Stoves; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to improvements in stoves; and

It consists in the peculiar arrangement hereinafter described of a flue and pipe-collar with the body of the stove and the oven of a heating-stove having an oven arranged in the cylinder, said arrangement being designed to apply the heat to the rear end of the oven as well as the bottom, sides, and the top, and to provide for the pipe-collar to be placed vertically, to prevent the deposit of soot and ashes in it.

Figure 1 is a sectional elevation of a stove constructed according to our improvements; and

Figure 2 is a horizontal section of the same.

Similar letters of reference indicate corresponding parts.

A is the vertical cylinder of an ordinary heating-

stove, in which an oven, B, is placed near the top, as shown.

In such stoves we propose to arrange the flue C in the side, at the rear end of the oven, to take the product of combustion through the passage D at the bottom, and conduct it up along the said end for applying the heat thereto as well as at the bottom, sides, and top.

We also make a passage, E, into the flue above the oven, and we arrange this flue to extend to the top of the stove or thereabout, and widen it thereat, as shown in fig. 1, to have sufficient breadth for the pipe-collar F to be arranged vertically in the cover for preventing the deposit of soot, ashes, and the like.

The said flue may be rectangular in cross-section, horizontal, or of other approved form.

Having thus described our invention,

We claim as new and desire to secure by Letters Patent—

The arrangement, with the cylinder A and oven B, of the flue C, passages D E, and the pipe-collar F, all substantially as specified.

SAMUEL H. EMERY, Jr.  
CHAUNCEY H. CASTLE.

Witnesses:

J. W. EMERY,  
E. J. PARKER.