

J. PRATT & J. H. WENTWORTH.
COOKING STOVE.

No. 110,282.

Patented Dec. 20, 1870.

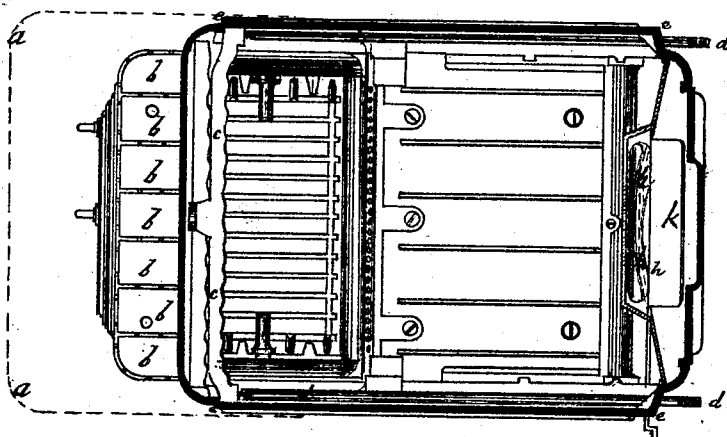


Fig. 1.

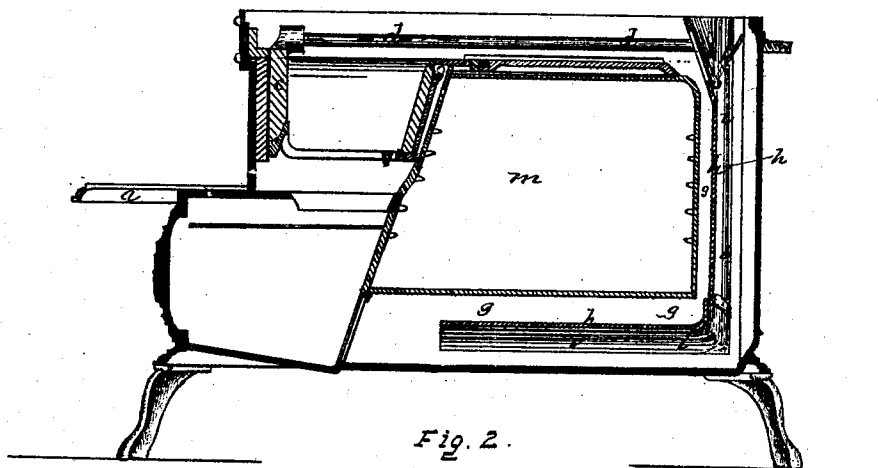


Fig. 2.

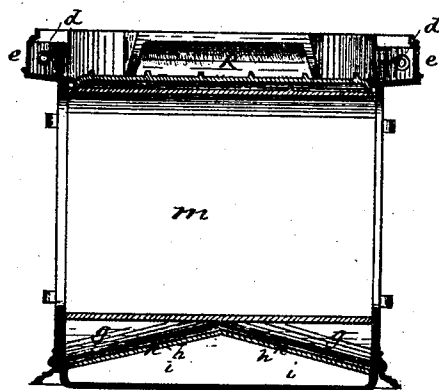


Fig. 3.

Witnesses

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P. W. Hoey

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James H. Wentworth.
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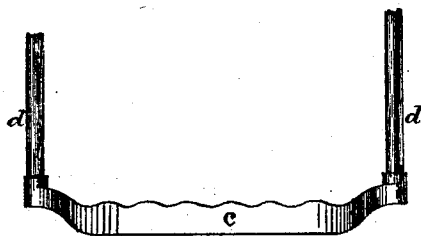


Fig. 4.

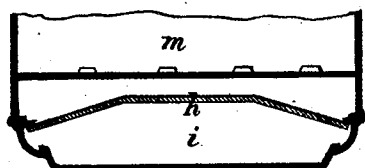


Fig. 5.

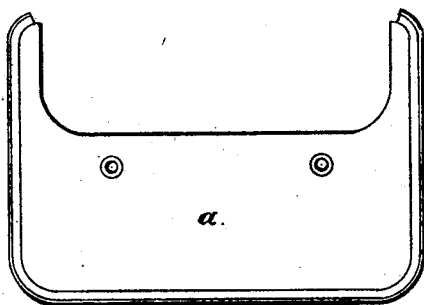


Fig. 6.

Witnesses.

Edward C. Males
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Inventors

Jos. Pratt & Jas. H. Wentworth

By R. W. Williams
Att'y

United States Patent Office.

JOSEPH PRATT AND JAMES H. WENTWORTH, OF BOSTON,
MASSACHUSETTS.

Letters Patent No. 110,282, dated December 20, 1870.

IMPROVEMENT IN COOKING-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, JOSEPH PRATT and JAMES H. WENTWORTH, both of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Cooking-Stoves, of which the following, when taken in connection with the accompanying drawing, is a full and exact specification.

The first part of our invention consists in a removable hearth, convenient in shipping, with air-chambers beneath, to prevent its becoming heated.

The second part of our invention relates to a water-front, with a pipe leading to it, and the arrangement for the reception of the pipe or pipes in the stove.

In the accompanying drawing—

Figure 1 is a plan of a stove embodying our invention;

Figure 2 is a longitudinal section; and

Figure 3 is a cross-section of the same.

Figure 4 is a detached view of the pipes *d*, leading to the water-front *c*, as fully described below.

Figure 5 shows the shape and position of a flue, described below, when behind the oven.

Figure 6 is a view of the hearth, when detached from the stove.

a is a removable hearth, running in grooves, so that it can be readily slipped off when the stove is shipped.

Under the hearth *a* are air-chambers *b*, through which, by means of the openings *n n* in the plate, and *o* in the hearth, a free circulation of air is obtained.

By this process the hearth *a* is kept cool and comfortable to the touch.

c is the water-front, placed before and forming the front part of the fire-pot.

d d are pipes leading to the water-front *c*.

A pipe, *d*, can be placed upon either side of the stove, or may be taken out of the stove entirely without injuring its utility, as the holes through which the pipes *d* pass into the stove may be easily closed.

e e are projections, one on each side of the stove, to accommodate the pipes *d d*.

This projection *e* is not prominent, and is nearly hidden by the plate or top of the stove.

g g i i are flues.

h h is the plate or sheet separating them.

k is the damper.

m is the oven.

When the damper *k* is closed, (it is open in fig. 2,) the heat passes down the flue *g* and up the flue *i*.

The sheet *h h* is so constructed that the great body of heat shall be near the jambs while the smallest quantity of heat is at the center of the oven *m*. This is on the principle that if the sides of the oven are well heated the center will regulate itself.

This sheet *h* is of the same shape, and preserves the same relation to the oven *m*, behind it, that it does beneath it.

Thus it will be seen that we have gained two points in our stove, viz:

A removable cool hearth.

Accommodation for pipes leading to the water-front without interfering with the usual internal arrangements of the stove.

Having thus fully described our invention,

What we claim, and desire to secure by Letters Patent, is—

1. The arrangement of the removable hearth *a* with the air-chambers *b*, as and for the purposes hereinbefore set forth.

2. The projections *e e*, for the purpose of accommodating the pipes *d d* leading to the water-front *c*, substantially as described.

JOSEPH PRATT.
JAS. H. WENTWORTH.

Witnesses:

SAMUEL PIERCE,
HENRY W. WILLIAMS.