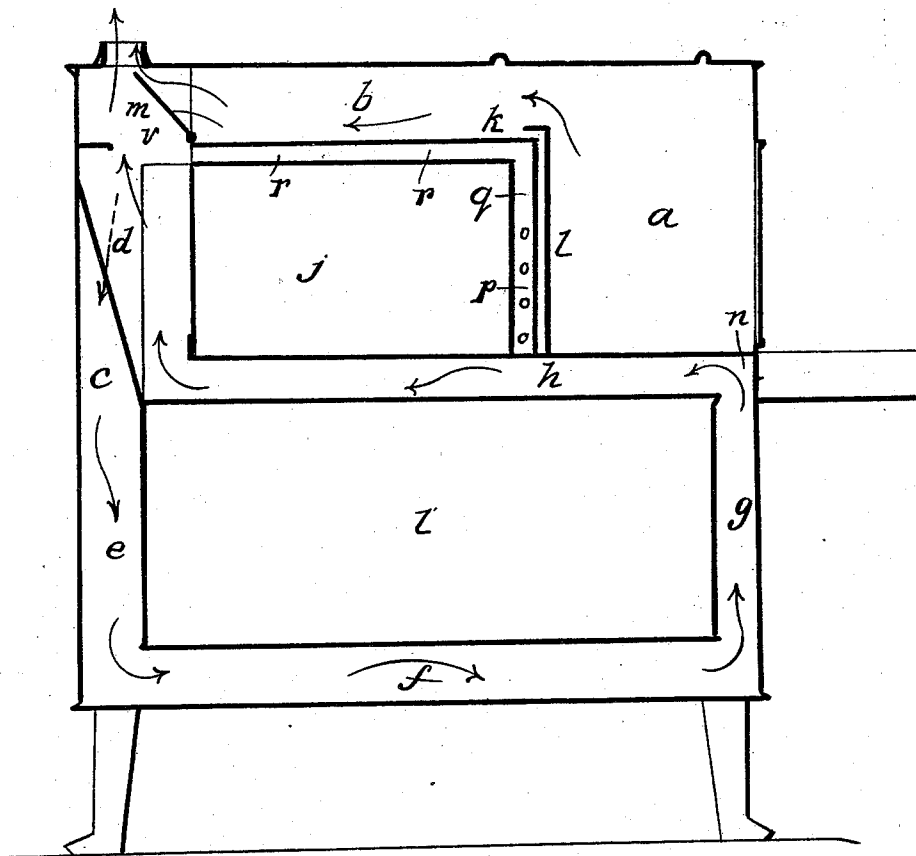


R. K. PAINE.
Cooking Stove.

No. 8,034.

Patented April 8, 1851.



UNITED STATES PATENT OFFICE.

R. K. PAINE, OF CINCINNATI, OHIO.

COOKING-STOVE.

Specification of Letters Patent No. 8,034, dated April 8, 1851.

To all whom it may concern:

Be it known that I, RUFUS K. PAINE, of Cincinnati, in the county of Hamilton and State of Ohio, have invented new and useful
5 Improvements in Cooking-Stoves; and I do hereby declare the following to be a full, clear, and exact description of the nature, construction, and operation thereof, reference being had to the annexed drawing,
10 making part of this specification.

I so arrange the flues in connection with a damper in a double oven stove, as to afford facility for the application and regulation of the heating action to each and every part
15 of the ovens. I also effectually guard the upper oven from the intense heat which arises from the direct action of the fire.

The annexed drawing is a vertical section through the center of the stove.

20 *a* is the fire place from whence the flue passes along the top *b* of the stove, thence down the two back corners *c* (being there separated into two streams by the escape flue *d*) and after passing the escape flue *d*,
25 it unites again and proceeds as an open flue behind (*e*), below (*f*) in front (*g*) and backward (*n*), between the top of the lower oven *i*, and the bottom of the fire place *a* and upper oven *j*, whence it opens into the ascending flue *z*, occupying the central portion
30 of the back.

k and *l* are guard plates to the upper oven, *k* passing along both front and top and *l* only in front of the said oven, for temper-

ing the intense heat arising from the direct
35 contact of the fire.

m is a damper which when open, allows the entire body of flame to escape directly to the stack and when closed, compels it to
40 pass entirely around the lower oven, and along the bottom and back of the upper oven, as indicated by the arrows.

Cold air from the outside is allowed to enter apertures *p* through the stove sides, into the passages *q r* between the plate *k* and
45 the upper oven, and to escape into the stack.

The opening *u* is to admit a cleaning rake into the flue *h* and may be closed by damper.

Having thus fully described the nature of my invention what I claim therein as new
50 and desire to secure by Letters Patent is:—

The air passages *p, q, r*, between the fire back *l* and the upper oven (the said passages receiving external air at the sides of the stove and discharging it into the back
55 flue) in combination with the damper *m* and flues, (*b c d e f g h*) substantially as herein described and represented, for the purpose of equalizing and regulating the
60 heat to all parts of the ovens.

In testimony whereof, I have hereunto set my hand before two subscribing witnesses.

RUFUS K. PAINE.

Witnesses:

GEO. H. KNIGHT,
EDWARD H. KNIGHT.