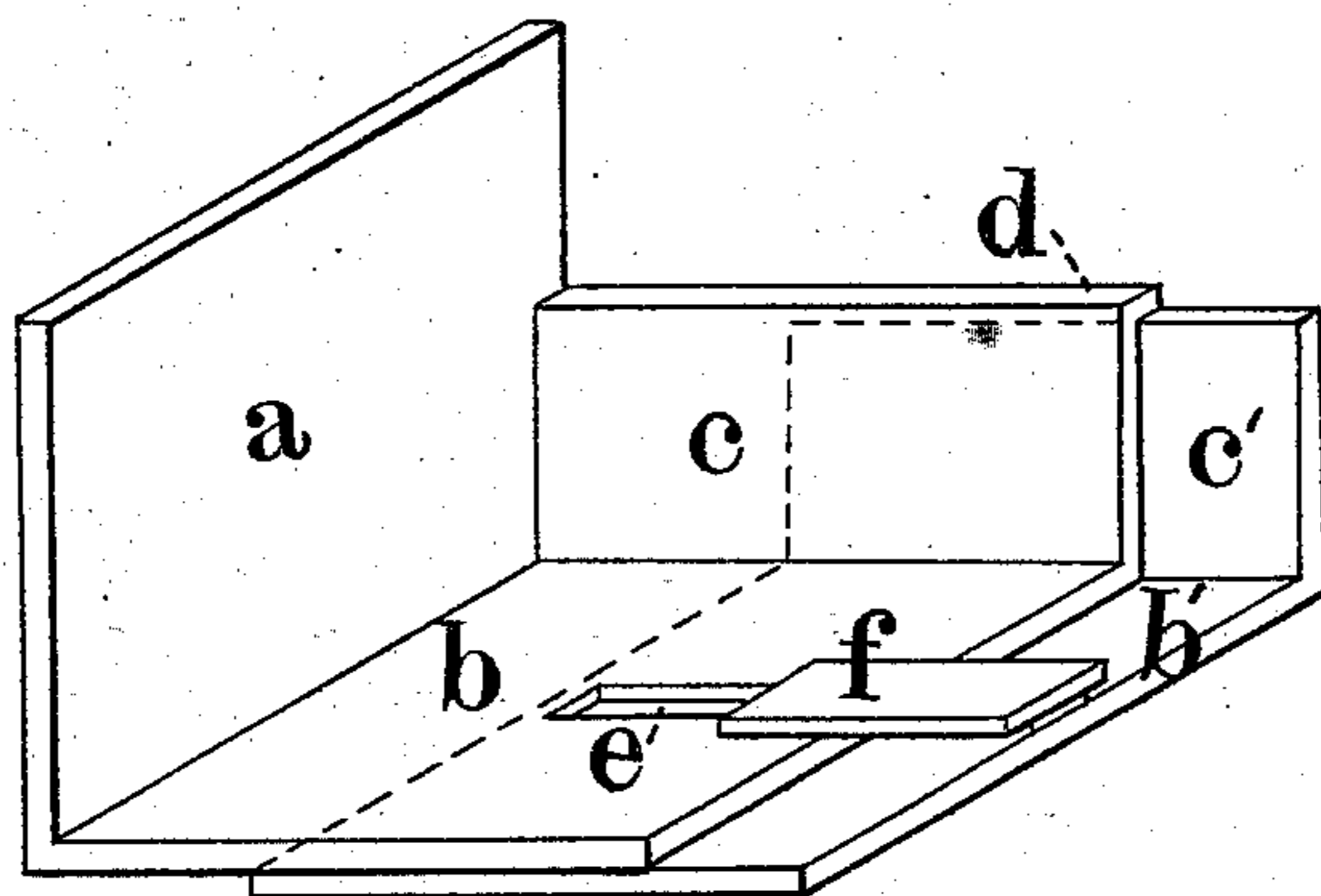


E. B. PATTEN.
Cook-Stove Attachment.

No. 159,351.

Patented Feb. 2, 1875.



Witness.

W. E. Brown

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UNITED STATES PATENT OFFICE.

EDWIN B. PATTEN, OF BANGOR, MAINE.

IMPROVEMENT IN COOK-STOVE ATTACHMENTS.

Specification forming part of Letters Patent No. **159,351**, dated February 2, 1875; application filed July 17, 1874.

To all whom it may concern:

Be it known that I, EDWIN B. PATTEN, of Bangor, in the county of Penobscot and State of Maine, have invented certain new and useful Improvements in Attachments for Cook-Stoves; and I do hereby declare that the following is a full, clear, and exact description thereof, that will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings forming a part of this specification, in which is shown a perspective view of my invention.

My invention consists of a simple device intended to be placed in the fire-box of a cook-stove, by which said fire-box may be diminished in extent, limiting the size of the fire as desired. This is a great convenience when, for any reason, a large fire is undesirable, as in summer, adding to the comfort and effecting a saving in fuel.

My device consists of two metallic plates cast together or firmly secured to each other, so as to form a right angle.

When in use, one of these plates, *b*, (see drawing,) is so placed as to rest upon or over a part of the stove-grate, entirely covering it, and forming a draft-stopper. When in this position the other plate, *a*, is necessarily vertical, and forms a partition across the fire-box, dividing it into two parts. The two plates being rigidly attached to each other, the plate *a* is sustained or braced in its vertical position by the plate *b*.

The fire is built upon the uncovered portion of the grate, the plate or draft-stopper *b* closing the apertures in the opposite side, and forcing the air through that portion of the fire-box in which the fire is kindled.

The plate *b* or draft-stopper, resting upon or over the grate, prevents the coal or other fuel from pushing over the partition *a*, while the coal or other fuel itself sustains it upon the opposite side. Thus no fitting is required to adapt the partition to the stove further than that it should approximate to the size of the fire-box. This is a great advantage, as the width of a fire-box is frequently dimin-

ished by the accumulation of clinkers upon the fire-brick.

The draft-stopper may be placed at the top or bottom of the partition, at will, and may consist of a single plate, or be constructed in two parts, one sliding upon the other, rendering the size of the fire-box adjustable to a still greater degree.

This form is shown in the drawing, in which *a* shows the partition, and *b b'* the draft-stopper, made in two parts, one of which, *b*, is attached to the partition *a*, and the other, *b'*, slides under the said part *b*.

For use in stoves provided with anti-clinker grates, so called, or grates open at the front, a side flange, *c c'*, may be attached to the partition or draft-stopper, or both, to check the draft through the upright portion of the grate.

When the draft-stopper is made in two parts both are, of course, provided with these flanges, sliding past each other, and one of these flanges is also provided with a flange, *d*, covering the upper edge of the flange, sliding under it, so that no open space may be left when the draft-stopper is extended.

The rigid attachment of the draft-stopper and partition not only enables my device to be self-supporting when in position, but also allows the attachment to be more conveniently handled, all the parts being connected, instead of being separate and independent.

The supplemental draft-stopper *b'* is attached to the draft-stopper *b* by means of a lip, *f*, sliding in a slot in the plate *b*. This enables the adjustment to be very readily made.

I do not claim the devices shown in the forfeited application of A. Hazen, filed November 25, 1874, which consist of partition and check-draft entirely independent of and unconnected with each other; but

What I claim as my invention, and desire to secure by Letters Patent, is—

1. An attachment for cook-stoves, consisting of a partition, *a*, and draft-stopper *b*, cast together or rigidly secured to each other, to form a right angle, or nearly a right angle,

with each other, as and for the purposes set forth.

2. In combination with partition *a* and draft-stopper *b*, constructed as described, the slot *e*, supplemental draft-stopper *b'*, and lip *f*, arranged and operating as set forth.

3. In combination with partition *a* and draft-stopper *b*, constructed as herein set forth, the side flange *c*, as and for the purposes described.

In testimony that I claim the foregoing I have hereunto set my hand this 15th day of July, 1874.

EDWIN B. PATTEN.

Witnesses:

W. E. BROWN,
WM. FRANKLIN SEAVEY.