E. BUSSEY.

Cooking Stove.

No. 111,812. Patented Feb. 14, 1871.

Fig: 1.

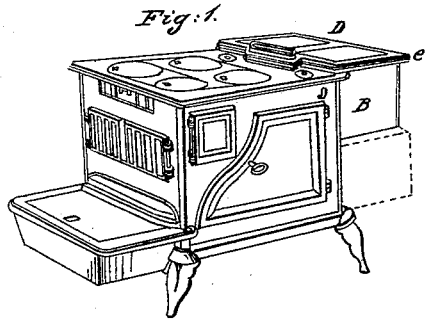


Fig: 2.

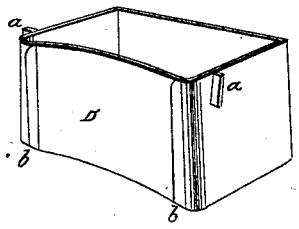


Fig: 4.

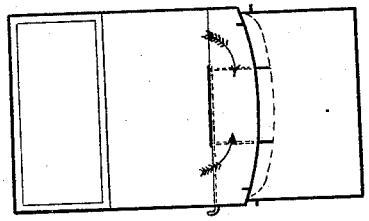


Fig: 5.

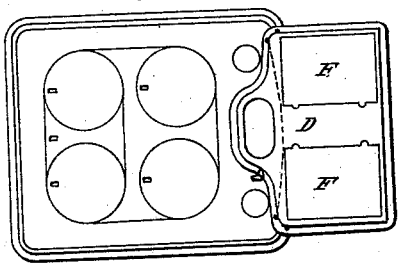


Fig: 6.

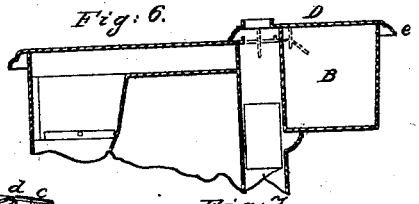


Fig: 3.

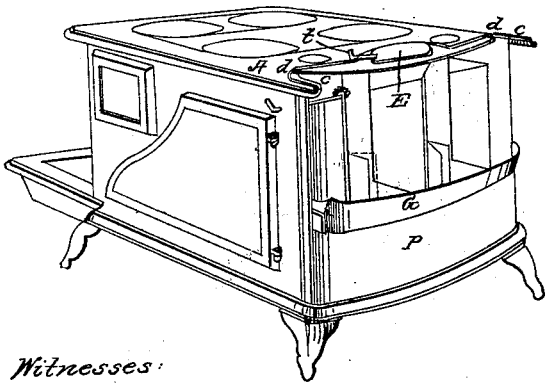
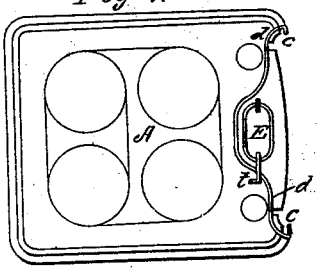


Fig: 7.



Witnesses:

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UNITED STATES PATENT OFFICE

ESEK BUSSEY, OF TROY, NEW YORK.

IMPROVEMENT IN COOKING-STOVES.

Specification forming part of Letters Patent No. **111,812**, dated February 14, 1871.

To all whom it may concern:

Be it known that I, ESEK BUSSEY, of the city of Troy, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Cooking-Stoves; and I do hereby declare the following to be a full, clear, and exact description of the same, reference hereby being had to the accompanying drawing, which forms and makes a part of this specification.

Like letters of reference indicate corresponding parts.

Figure 1 of the accompanying drawing represents a cooking-stove having connected and combined therewith my improvements, hereinafter more fully described and claimed. Fig. 2 is a perspective view of the reservoir or water-boiler hereinafter referred to. Fig. 3 represents a cooking-stove with the reservoir or water-tank removed therefrom, and showing the construction of the rear end of the top plate of said stove, whereby the said reservoir is attached to the said stove, as more fully hereinafter described and set forth. Figs. 4 and 5 are top views of the stove, showing the relative positions of the reservoir and other portions of the said stove; and in Fig. 5 is also shown the raised or elevated auxiliary top plate covering the rear vertical flues and the reservoir placed in the rear of said stove, all being more fully hereinafter described. Fig. 6 is a longitudinal section through the rear portion of said cooking-stove; and Fig. 7 is a view of the principal top plate of the stove, showing the damper over the rear center vertical flue, the objects and purposes of which and the manner of constructing and locating the same will be herein more fully described and specified.

Heretofore, in the manufacture of that class of cooking-stoves having a water-reservoir in the rear thereof and partially or entirely below the top plate of the stove, it has been the general custom to fasten and secure the said reservoir to the rear part of said stove by means of bolts or rivets passing through the reservoir and through some portion of the rear plates of the stove. By these means the reservoir was securely fastened to the stove, but in such a manner that it could not be removed without displacing the top plate of such stove and removing the bolts or rivets securing such reservoir, which operation would necessarily be attended with considerable expense of time as well as money.

One object of my invention is to obviate this difficulty and provide a way by which this class of reservoirs may be securely and firmly attached to cooking-stoves, yet at the same time may be easily and readily removed at pleasure, for the purpose of repairs, &c.; and my improvement and invention consist, substantially, in casting or otherwise securely attaching to the cast-iron reservoir suitably-shaped lugs or projections, which, when the reservoir is placed in proper position, fit into corresponding recesses or notches cast in the top plate of the stove, whereby and by means whereof the said reservoir will be securely and firmly held in its proper place and position, as more fully hereinafter described and specified.

My invention also consists in the use and employment of an auxiliary top plate, raised above the surface of the main top of the stove and covering the reservoir placed in the rear of the stove, and so arranged as to allow the location and use of a damper below said raised extended top, and covering the rear center vertical flue, whereby the exit of the smoke and products of combustion may be regulated, substantially as described in detail hereinafter.

It also consists in the use and employment of an ordinary damper placed below said raised extended top, and in combination therewith, and directly over the rear center vertical flue, the value and novelty of which will be herein fully described and set forth.

I will now proceed to describe my invention and improvements in detail, in order that those skilled in the art may manufacture and use the same.

In the accompanying drawing, A represents the main top plate of the stove; B, the cast-iron reservoir or water-tank. Upon this reservoir B, and when the same is cast, I cast suitably-shaped lugs or projections, *a a*. (Shown at Fig. 2.) These lugs, which I design to place near the top of said reservoir, and one on each side thereof, need not be of any particular size or shape, but should be made of sufficient size and strength to answer the required purpose.

I also design to cast lugs or projections similar to the ones just described upon the front end of said reservoir, as shown at *b b*, Fig. 2.

When casting the main top plate of the stove A, I form the notches or recesses *c c* and *d d*, which in size and shape correspond with the lugs or projections on the reservoir B, before described, and marked *a a* and *b b*. The respective locations and relative positions of these notches *c c* and *d d* will be seen by reference to Figs. 3 and 7 of accompanying drawing. The raised extended top plate D (shown at Figs. 1, 5, and 6) I design to make of cast-iron, and of the usual size and strength.

My object in casting this plate D with a downward-projecting flange, *e*, whereby the same is raised an inch or two above the principal top plate of the stove, is, first, that by so doing I am enabled to fit the flange *e* over the top of the reservoir B when the same is placed in position, thereby making an ornamental as well as useful covering for said reservoir B; and, second, that this raised top allows the placing of a damper, E, below the same and above the main top of the stove, thereby obviating the necessity of a damper in the stove-pipe. The handle of this damper E (shown at Fig. 3) projects through this raised extended top D, and is marked *f*.

F F, Figs. 1 and 5, are hinged covers, attached to the raised extended top D and opening into the reservoir B. The back plate P of the stove has a projecting flange or shelf, G, Fig. 3, upon which the bottom of the reservoir B rests when mounted.

The sides of the main top plate A are extended rearward beyond the center of said plate, and in these extensions are cast the notches or recesses *c c*, hereinbefore described.

The manner of mounting a stove containing my invention and improvements is as follows: I proceed in the usual manner until all of the parts are mounted except the reservoir B and the raised auxiliary top D. The reservoir is then placed in its position on the back of the stove, covering the rear vertical flues by raising the same and allowing the lugs or projections *a a* and *b b* to fit into and rest within the corresponding notches or recesses *c c* and *d d* in the main top plate A, as hereinbefore described, the reservoir being supported at the bottom by the shelf or flange G projecting from the rear upright plate, P, hereinbefore described.

The damper E being placed in position over the rear central vertical flue, the raised auxiliary top plate D is then placed in position over the said damper and covering the reservoir B, and is securely fastened and held in its position by means of bolts passing through such raised top plate and through the main top plate of the stove, and secured by nuts on the under side.

Having thus described the nature of my said improvements, what I claim as my invention, and desire to secure by Letters Patent of the United States, is—

1. Attaching or securing the reservoir B to the rear of a cooking-stove by means of one or more lugs or projections, *a a*, fitting into corresponding notches or recesses *c c* cast in the back part of the top plate A of the stove, substantially as herein described and specified.

2. The raised auxiliary top plate D, in combination with the reservoir B and principal top plate of the stove, A, when combined with damper E, in the manner and for the purposes hereinbefore described.

3. The damper E, located above the rear center vertical flue of the stove and below the plane of the raised extended top D, whereby the necessity of a damper in the stove-pipe is obviated, as herein fully described and set forth.

In testimony whereof I have hereunto set my hand this 19th day of December, A. D. 1870.

ESEK BUSSEY.

Witnesses:

CHAS. M. AUSTIN,

C. D. KELLUM.