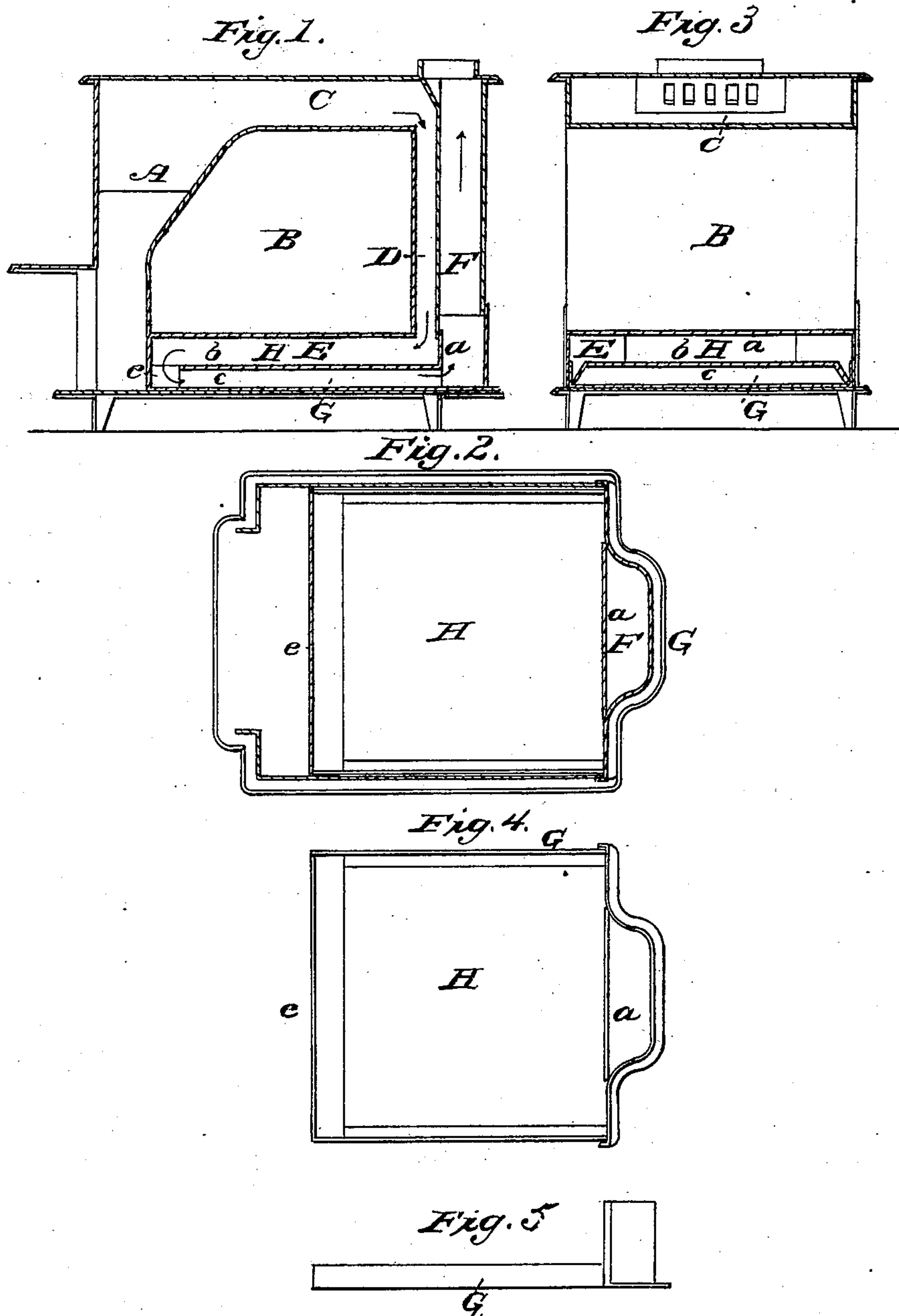


B. L. MOTT, Jr.
Cooking Stove.

No. 77,751.

Patented May 12, 1868.



WITNESSES:
S. F. Dyer,
J. A. Snow,

INVENTOR:
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By his attorney
R. H. Eddy,

United States Patent Office.

BENJAMIN L. MOTT, JR., OF PAWTUCKET, RHODE ISLAND.

Letters Patent No. 77,751, dated May 12, 1868.

IMPROVEMENT IN COOKING-STOVES.

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

TO ALL PERSONS TO WHOM THESE PRESENTS SHALL COME:

Be it known that I, BENJAMIN L. MOTT, Jr., of Pawtucket, in the county of Providence, and State of Rhode Island, have invented a new and useful Improvement in Cooking-Stoves; and I do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 denotes a longitudinal and vertical section, and

Figure 2 a horizontal section of a cooking-stove provided with my invention, the latter section being taken through the chamber under the oven.

Figure 3 is a transverse section of the stove.

Figure 4 is a top view, and

Figure 5 a side elevation of the soot-drawer and its divisional and separate arched flue-plate.

In the drawings, A denotes the fireplace, and B the oven of the stove, there being over the top of the oven a flue, C, to lead from the fireplace into a flue, D, arranged against the back of the oven, and opening at bottom into a chamber, E, arranged underneath the oven, such chamber E being open or provided with a mouth at its rear end. There is another flue, F, directly in rear of the flue D, and leading from the top of the mouth of the chamber E to the upper part of the stove, in manner as represented.

The chamber E is for the reception of a drawer, G, which is to be introduced into the chamber, as well as withdrawn therefrom, through its mouth, the drawer being made so as, when within the chamber, to close its mouth and extend underneath the flue F, in a manner to open communication between such flue and such drawer, in manner as represented.

Within the drawer G is a removable partition or arched plate, H, provided with a lip or flange, *a*, to extend up from and along its rear edge, in manner and with respect to that part of the drawer which goes underneath the flue F, as shown in the drawings. The partition does not extend to the front end, *e*, of the drawer.

The arched plate, with its flange, *a*, serves to form within the chamber E or to divide the drawer into two flues, *b c*, to open into each other at their front ends, and communicate with the flues D and F, in manner as shown in fig. 1.

The drawer G serves to catch and retain the soot deposited in the flues *b c* underneath the oven. By removing the drawer from the chamber E, the soot and dust collected at any time in such flues may be extracted from the stove. The drawer thus enables the flues to be easily cleared of deposits of soot or ashes.

The course of the smoke around the oven and through the flues, when the soot-drawer is in place in the chamber E, is indicated in fig. 1 by arrows.

I make no claim to two flues, or what are termed "return-flues," arranged underneath the oven of a stove, and opening into each other, and other flues in rear of the said oven, such being common to many stoves.

Nor do I claim arranging a drawer below an oven, and underneath the bottom plate of a stove, and providing such plate with holes, to enable soot, when raked over such holes, to fall into such drawer, such being represented in the patent of W. B. Lawrence, dated October 14, 1840. The drawer in my stove is arranged over and on the bottom plate of the stove, and within the flue-space, directly underneath the oven, and there is an opening through the back plate of the stove to receive such drawer. By this arrangement, I not only avoid the necessity of holes made through the bottom plate of the stove, and of scrapers arranged in the flues of such stove, but I am enabled to form with such drawer, and the arched plate arranged in it, two truncated flues, easily cleansed of soot, in comparison to what they would be if they were fixed in place underneath the oven, and had a drawer placed underneath the bottom-plate of the stove, and having communications leading from the oven-flue through the bottom-plate of the stove, and into the drawer. Besides, with my drawer arranged as it is, air may be let into the back flue of the oven, as occasion may require.

I claim the combination and arrangement of the arched plate H with the soot-drawer G, so as to divide such drawer or the chamber E into two connected or return-flues, as set forth, and be movable with the drawer.

I also claim the combination of the lip or flange *a* with the partition or arched plate H, or the same and the drawer G, to be applied to the chamber E and flues D F of the cover, as specified.

BENJAMIN L. MOTT, JR.

Witnesses:

R. H. EDDY,

F. P. HALE, Jr.