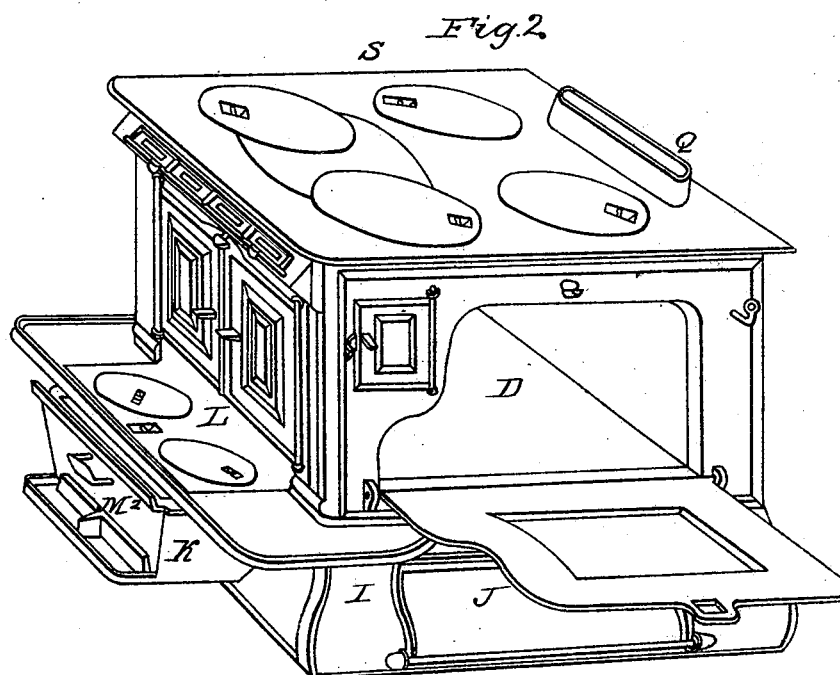
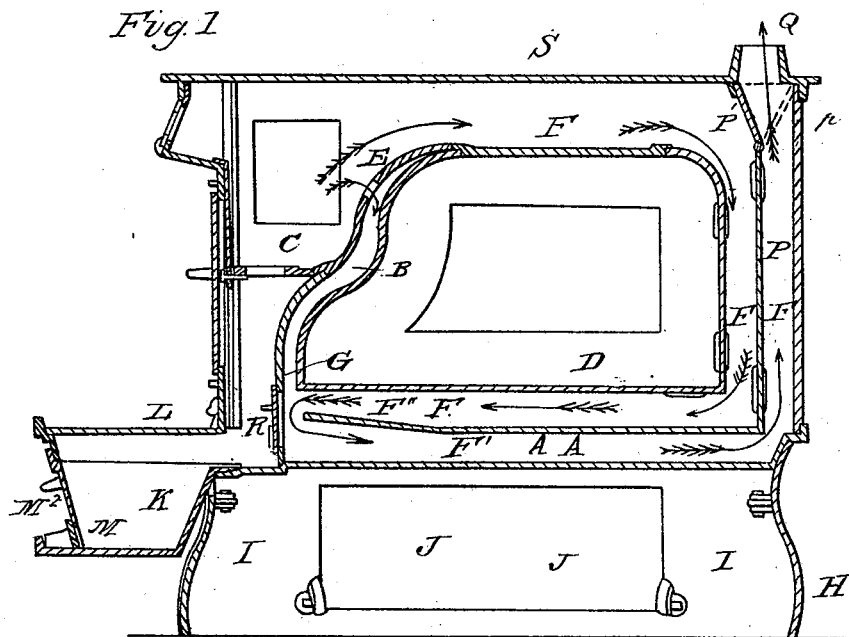


A. BRONSON.
Cooking Stove.

No. 5,721.

Patented Aug. 22, 1848.



UNITED STATES PATENT OFFICE.

AUSTIN BRONSON, OF PEEKSKILL, NEW YORK.

COOKING-STOVE.

Specification forming part of Letters Patent No. 5,721, dated August 22, 1848; Reissued May 18, 1858, No. 559.

To all whom it may concern:

Be it known that I, AUSTIN BRONSON, of the town of Peekskill, in the county of Westchester and State of New York, have invented a new and useful Improvement in Cooking-Stoves, which is described as follows, reference being had to the annexed drawings of the same, making part of this specification.

Figure 1, is a vertical longitudinal section of the stove. Fig. 2 is a perspective view of the stove.

Similar letters in the several figures refer to corresponding parts.

This cooking stove is, in its general construction, made like other stoves in use.

The main improvement consists in extending the horizontal division plate A, of the bottom flue, beneath the oven, to the front of the oven, in order to unite this flue with a curved flue B, between the back plate of the fire chamber C, and the front plate of the oven D. The division plate A commences to rise at the middle, in order to direct the draft upward at an angle of about 3 or 4 degrees as shown at F'' causing the flue to be contracted at the back of the oven, and to force the heat against the same, which would otherwise have a tendency to descend from the bottom of the oven, in passing around the forward end of the division plate, to the flue F' beneath the same. The curved flue B, between the fire chamber and the oven, with which the main flue F is to be united, is to be of a serpentine form, and to communicate with the fire chamber by means of apertures E, in the back plate of said fire chamber, through which the heat and smoke are to pass to said curved flue B, and to unite with the main flue F, by means of an opening G, on a line with the bottom plate of the oven. The arrows will indicate the direction of the draft.

The space H beneath the stove and above the floor, which is usually left open, I close by means of curved ornamented plates I, forming a chamber in which articles may be kept warm, the heat in passing through the bottom flue F', being sufficient to retain the temperature of this chamber at a proper degree. The curved side plates of this cham-

ber are provided with doors J, at which to introduce the articles to be kept warm.

An ash or ember drawer K, for catching the ashes and hot embers which fall from the fire chamber, is inserted into grooves, or lodged upon ledges formed on the under side of the hearth plate. It is provided with a movable top plate L, containing a number of apertures for the introduction of various culinary vessels and lids. Also with an opening M, in front of said drawer for the removal of the ashes, and for the admission of air. It is also provided with a handle M² by which it is removed from the stove, to any place where it may be required to be used. There is an opening in the hearth plate, corresponding with the size of the drawer over which the aforesaid plate L is placed. This drawer is made movable, for the purpose of applying the heat therein to culinary operations, in a common fire place, or in any convenient place, to avoid the annoyance from heat, &c., from the stove in the summer, or warm weather. It forms an excellent portable furnace and fuel saver.

At the top of the vertical division plate P, I arrange a damper P', for the purpose of making the draft pass directly from the fire chamber, to the smoke pipe Q, without its passing around the oven, and also for changing said draft, and causing it to pass around the oven, which is effected by said damper P' when in the position represented in Fig. 1, and when the damper is in the position of the dotted lines p, the draft will be direct from the fire chamber over the oven to the smoke pipe Q.

The damper R is designed to close the opening at which the middle flue F' is cleaned. It is simply a sliding damper, having a handle by which it is raised or lowered.

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

Combination of the flue B with the flues F' F'' in the manner and for the purpose above set forth.

AUSTIN BRONSON.

Witnesses:

WM. P. ELLIOT,

ALBERT E. W. JOHNSON.