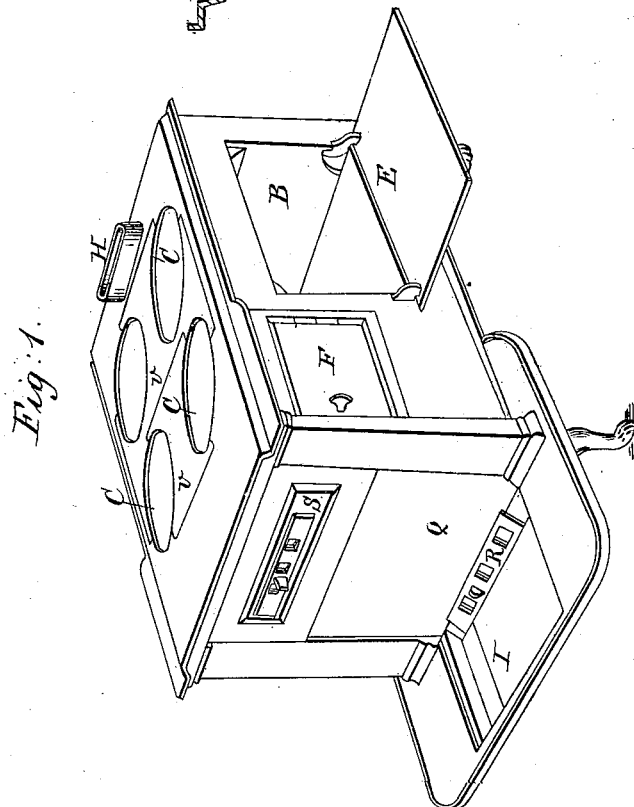
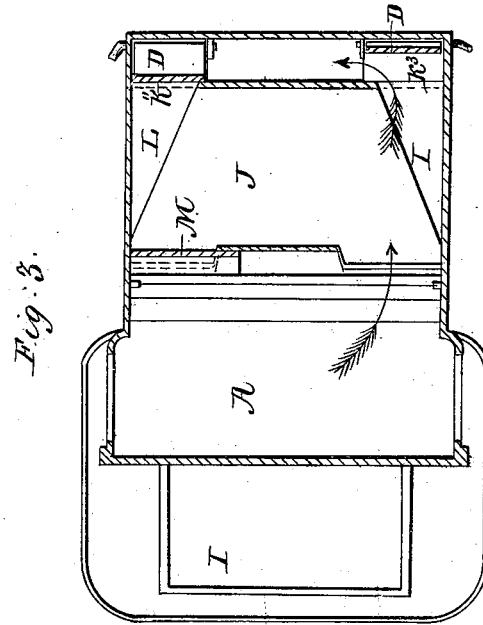
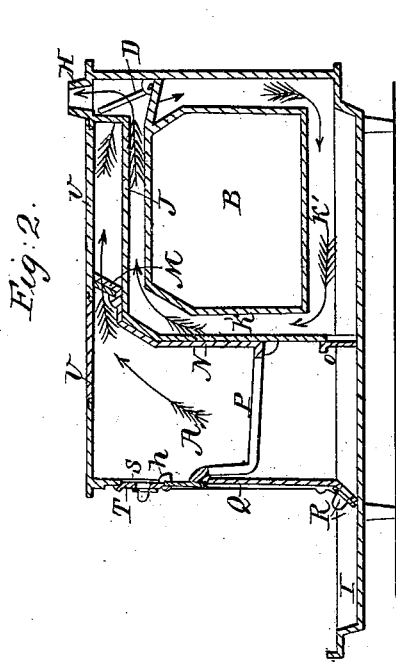


J. ROBB.
Cooking Stove.

No. 3,211.

Patented Aug. 4, 1843.



UNITED STATES PATENT OFFICE.

JAMES ROBB, OF LEWISTOWN, PENNSYLVANIA.

STOVE.

Specification of Letters Patent No. 3,211, dated August 4, 1843.

To all whom it may concern:

Be it known that I, JAMES ROBB, of Lewistown, Mifflin county, State of Pennsylvania, 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 perspective view. Fig. 2 is a longitudinal section. Fig. 3 is a horizontal section.

This cook stove, in several particulars, resembles other cook stoves in use, having a fire chamber A in front, a large oven B in the rear, boiler holes C in the top plate, dampers or valves D, oven doors E, fire doors F, grate P, smoke funnel H, recessed hearth I.

The improvements are in the construction and arrangement of a plate J of a trapezoidal shape about $1\frac{1}{4}$ inches above the top plate of the oven—the smaller end being next the smoke flue and the larger end or base against the upper edge of the back plate of the fire chamber its sides resting upon the upper edges of two narrow rectangular plates placed edgewise upon the top plate of the oven, by which a central trapezoidal flue is formed over the oven leading to the funnel or smoke pipe and communicating with the vertical flue K' between the oven and fire chamber and the horizontal flue K'' under the oven and two flues K³ K⁴ in the rear angles of the stove leading into or communicating with two triangular flues L L between the sides of the trapezoidal flue and the sides of the stove which open into the large space immediately under the boilers. By means of the aforesaid angular vertical flues and the triangular flues combined with the other aforesaid flues and dampers, or valves D, M, the draft may be changed from one side of the stove to the other at pleasure.

To prevent the back plate of the fire chamber from being burned out I place a guard plate N between it and the fire. This guard plate is shaped to correspond with the form of the back plate of the fire chamber and is grooved to admit a sliding damper M.

A door O through which access is had to the flue under the oven for cleaning it when foul is arranged in the vertical back plate of the fire chamber below the grate P.

A rectangular plate Q fitted into and covering one half the recess of the hearth I having one of its edges turned and forming an obtuse angle and perforated, with a perforated slide or register R, sliding over said perforated part of the plate, for opening or closing the apertures therein, is placed upon the hearth: and when it is required to close the space in front of the grate this plate is turned up in front of it and the register used to regulate the admission of air to the grate. This plate is also used as a hearth plate.

The front feeding door S of the fire chamber is closed with a rectangular door hung by means of hooks h at its lower corners hooking against the inside of the front plate of the stove which admit of said plate being let down and held in a horizontal position. This door is provided with a register T for regulating the draft. The oven doors E are hung in the same manner—there being offsets on the side plates of the stove serving as seats for the doors when turned down to rest in made in the usual manner.

The top plate of the stove is perforated with a large opening for a boiler furnished with a tube to convey the steam to various vessels of wood or metal to heat water therein—for culinary and for other purposes. Movable segment plates U are fitted to said large opening to adapt it for the reception of smaller boilers.

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

1. The arrangement of the door O in front for cleaning the bottom flue.

2. The plate Q for closing the space in the front plate in front of the grate and serving as a hearth plate and regulator.

JAMES ROBB.

Witnesses:

EDMUND MAHER,
WM. P. ELLIOT.