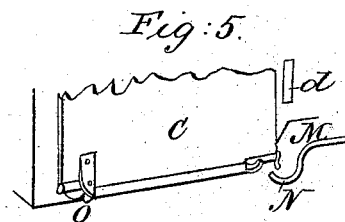
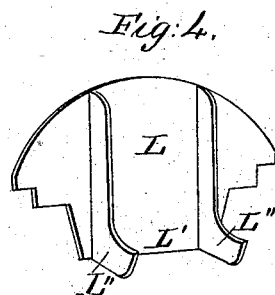
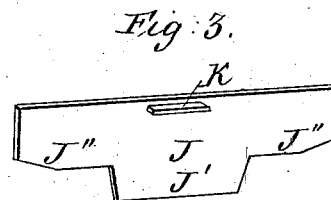
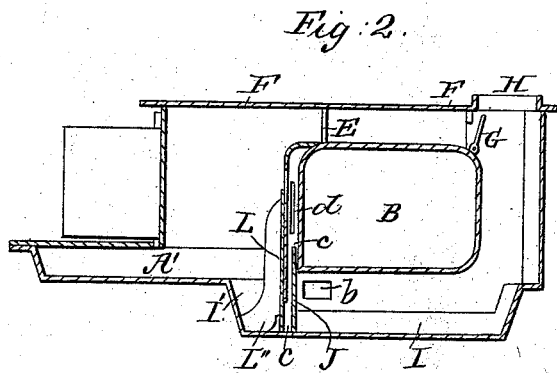
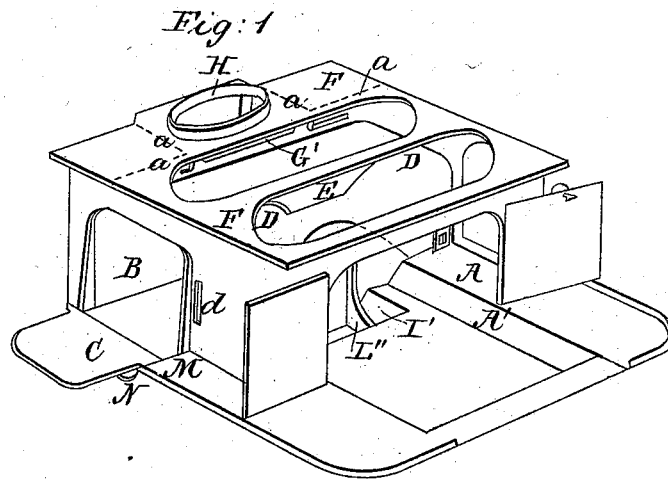


J. GREEN.
Cook Stove.

No. 3,214.

Patented Aug. 11, 1843.



UNITED STATES PATENT OFFICE.

JOEL GREENE, OF ROCHESTER, NEW YORK.

COOKING-STOVE.

Specification of Letters Patent No. 3,214, dated August 11, 1843.

To all whom it may concern:

Be it known that I, JOEL GREENE, of Rochester, in the county of Monroe and State of New York, have invented certain Improvements in Cooking-Stoves; and I do hereby
5 declare that the following is a full and exact description thereof.

In the accompanying drawing, Figure 1, is a perspective view of my stove, which does
10 not differ in the general arrangement of its parts from some of the cooking-stoves previously in use. Fig. 2, is a vertical section along the middle of the stove, from front to back, the same letters of reference being
15 used in each of the figures to designate the same parts.

A, is the fire chamber, with its sunk hearth, A'.

B, is an oven behind the fire chamber,
20 which oven is furnished with drop doors C. The draft passes from the fire chamber directly over the oven, through two apertures, D, D, formed by the plate, E, which descends from the top plate, F, F, of the stove,
25 so as to touch the top plate of the oven. By depressing a valve at G, a direct passage is opened to the exit pipe, H; but when the oven is in use, the valve at G, is raised so as to close said direct passage; the smoke and
30 heated air then descend through two flues in the rear corners of the stove, the boundaries of which flues are designated by the dotted lines, *a, a*; the draft, after descending, passes along, under the oven toward the
35 front, until it reaches openings designated by the letter *b*, through which it enters a middle flue extending back to the flue leading to the escape pipe; the space under the oven being divided into three longitudinal
40 flues, in a manner well known to manufacturers of stoves. The middle or return flue, I, below the oven, is sunk below the others, and the depression which constitutes it extends forward into the fire chamber, as shown
45 at I'.

The back of the fire chamber consists, in part, of two movable plates which fall into grooves in the casting fitted to receive them. When these two plates are removed, there is
50 a clear opening made into the flues below the oven, affording space to clear out any ashes that may accumulate there; by which means, the rear openings into such flues, closed by stoppers, which are ordinarily employed, are dispensed with; the advantage

resulting from the omission of these openings in the rear, is the prevention of the entrance of cold air into the flues, as none can find admittance excepting what may enter
60 directly from the fire chamber.

J, Fig. 3, is the movable plate which is
65 first inserted. The lower part, J', of this plate enters the depression I', and the parts J'', cover the opening into the lateral flues below the oven.

K, is a projecting piece cast on the front
70 side of this plate, to preserve the space between it and the next plate, L, shown at Fig. 4; which latter plate constitutes the fire back proper. This plate drops in in front of the plate J, and stands at the distance
75 of an inch, or more, from it. Its lower part, L', occupies the recess I', and it has on it two ribs, or brackets, L'', which project in front of it, and the lower parts of which enter the sunk recess, I'. The separation of
80 the two plates is shown at *c, c*, Fig. 2, and openings admitting a flux of air between them, at *d, d*. The brackets, L'', prevent the wood from being in direct contact with the back plate, causing the fire to burn un-
85 obstructedly, strengthening the plate, and preventing its burning out.

I have also made an improvement in the manner of supporting the drop doors of the oven. For this purpose, I extend the hearth
90 of the stove back to the oven door, as shown at M, Figs. 1 and 4, and curve it down, as shown at N, to support the door when down. The bracket, or stop, O, at the other end of the door, also aids in its support.
95

Having thus fully described the nature of my improvements in the cooking-stove, what I claim therein as new, and desire to secure by Letters Patent, is—

1. The manner of forming, and of combining with the stove, the two movable
100 plates marked J, and L; the said plates being arranged as, and effecting the objects, herein set forth.

2. I also claim the manner of supporting
105 the drop doors of the oven by the extension of the hearth, and the curved, or depressed, part which terminates it, formed substantially as described.

JOEL GREENE.

Witnesses:

THOS. P. JONES,
EDWIN L. BRUNDAGE.