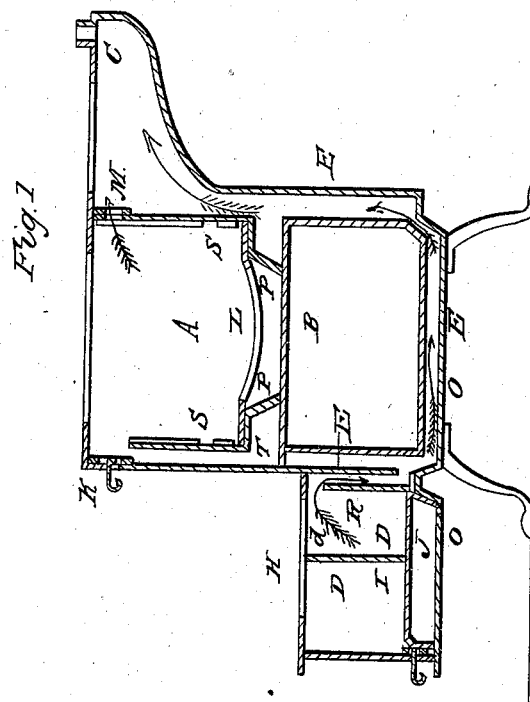
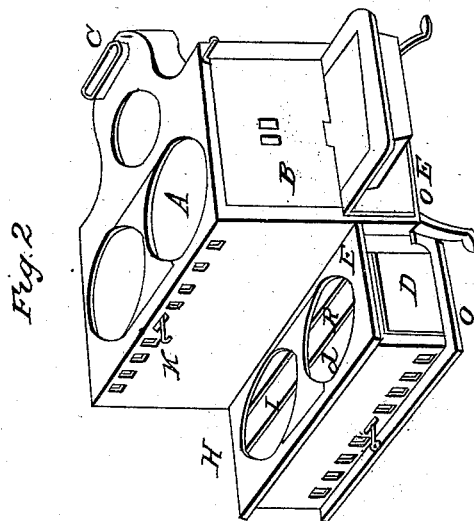


J. W. RIGGS.  
Cooking Stove.

No. 3,807.

Patented Oct. 30. 1844.



# UNITED STATES PATENT OFFICE.

JOHN W. RIGGS, OF FORT PLAIN, NEW YORK.

## COOKING-STOVE.

Specification of Letters Patent No. 3,807, dated October 30, 1844.

*To all whom it may concern:*

Be it known that I, JOHN W. RIGGS, of Fort Plain, Montgomery county, 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 transverse section of the stove, at the center. Fig. 2 is a perspective view of ditto.

The fire chamber A—oven B—and funnel C, are made in the usual manner.

The improvement consists, in combining with the aforesaid stove, an additional, and smaller fire chamber D, which is so arranged, as that, while it answers all the purposes of cooking, baking, &c., it is operated without sensibly heating the main stove. The heat being entirely excluded from the interior of the main stove, by the oven plate T, and damper M, and passing under, and up, the back side of the oven, and fire box, as shown in the drawing, (E E E.) thus uniting in the same stove, and occupying the same space of ordinary stoves, and at the same cost, a complete summer, and winter stove, either operating well separate and distinct, from the other, or both at the same time—while this additional fire chamber D, accomplishes, in the most perfect manner, another important and intended effect, viz, that of heating the bottom of the oven B, equally with the top, which cannot be effected by any stove having the fire all at the top of the oven, as is, and must be the case, with all fuel saving stoves. This fire chamber D, may be formed by casting its bottom, and ends, in connection with the main stove, or separate and attached by tongues and grooves, hooks and eyes, or other convenient means. It is the whole length of the stove, say about 2 feet 9 inches high and about 9, wide, the top plate projecting, so as to form a hearth, of any desirable width. The back of this chamber, is a loose plate R, placed in grooves in the end plates. In the center is another loose plate Z, dividing the chamber, and confining the heat, if desired to a single

boiler, the top plate H, having two perforations for boilers, I the grate; J the ash pan, O bottom plate.

The upper, or winter fire chamber, consists of two side plates P, resting in grooves on the upper plate, of the oven, (instead of sinking as in others,) and a third, or bottom plate L, which is movable, and if desired in summer, may be raised some four inches, to grooves marked S S.

In the front plate, near its upper edge is a slide K opening a draft on either side, which serves for the escape of steam, and smoke when cooking in front, and also for the emission of light, in the evening, and to equalize the fire above. The damper M, slides in grooves formed in the back plate, near its upper edge, where the said plate is perforated, which perforations give exit to the fire, from the upper fire place. By this damper M, the fire may be driven around the oven, (if desired for any purpose,) by drawing at the same time the damper resting on the projecting edge T, of the upper plate of the oven, which projecting edge, is also perforated, for the purpose last mentioned, only. The projection, being designed effectually to exclude the heat below, from passing into, and heating the body of the stove above.

I do not claim, an extra stove, or fire chamber, nor the construction of my main stove, but

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

The manner in which I have combined the extra fire box D, with the main stove, that is, there being between the fire box and oven B, three division plates, or two flue spaces, for the purpose above described, the main stove being constructed substantially as described, viz., having a fire chamber above the oven, and the flues, and dampers, arranged and operating, as set forth.

J. W. RIGGS.

Witnesses:

SOLOMON COUNTRYMAN,  
S. D. RUE.