

LITTLE & NATION.

Cooking Stove.

No. 113,437.

Patented Apr. 4, 1871.

Fig 1

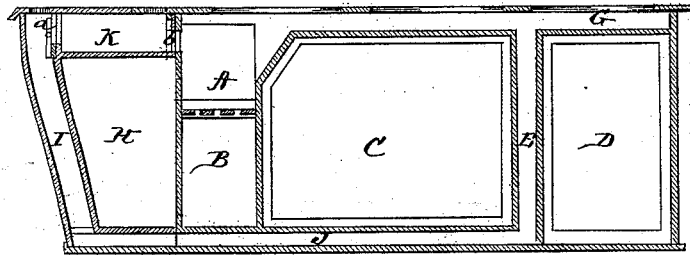


Fig 2

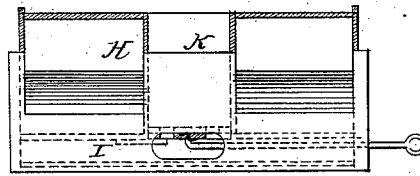
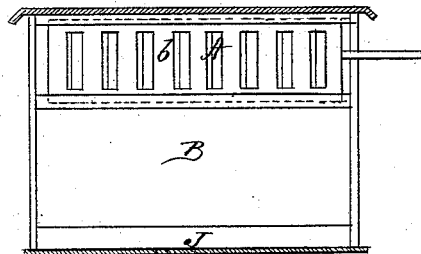


Fig 3



Witnesses.

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Attest -

UNITED STATES PATENT OFFICE.

EZEKIEL C. LITTLE AND DAVID H. NATION, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN COOKING-STOVES.

Specification forming part of Letters Patent No. 113,437, dated April 4, 1871.

To all whom it may concern:

Be it known that we, EZEKIEL C. LITTLE and DAVID H. NATION, of St. Louis, in the county of St. Louis, and in the State of Missouri, have invented certain new and useful Improvements in Stoves; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of our invention consists in the construction and arrangement of a "stove with water-reservoir," as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a longitudinal vertical section of our stove. Fig. 2 is a plan view of the water-reservoir, and Fig. 3 is a front view of the stove with the reservoir removed.

A represents the fire-box, with the ash-box B underneath.

C is the baking-oven, immediately in rear of the fire and ash boxes. In rear of the baking-oven C, and divided from it by the vertical flue E, is a roasting or warming oven, D. Between the top of this warming-oven D and the top of the stove is a hot-air flue, G, as shown. The heat, products of combustion, &c., pass from the fire-box over the baking-oven C and roasting-oven D, and then down between said ovens through the flue E, and forward under the bottom of the baking-oven through flue J.

The water-reservoir H is placed forward of the fire-box, and forms a part of the same, with the exit-flue I in front of the reservoir, said reservoir forming also a part of this flue. It will be noticed that all the flues are of the same width as the stove itself, and the heat in the bottom flue is equally divided by carrying the bottom plate of the baking-oven forward be-

yond the reservoir across the flue I for about one-third the width of the stove in the center, thus dispensing with the use of flue-strips generally used for that purpose. Such a division may be made by making a strip between the flue-plate and the reservoir at any point between the bottom plate and the grate-line of fire-chamber; but we consider the connection with the bottom plate most effectual for the purpose.

K is a direct-draft flue passing over the top of reservoir at the center about one-third the width of the stove, and at the front end of said flue is a sliding damper, *a*, for the purpose of admitting the direct draft to the exit-flue I.

The lining of the fire-chamber is made of brick, and, when damper *b* is used, perforated to correspond with the openings in the damper, for the purpose of heating the water when the direct draft is used. Said fire-brick affords ample protection to the flue-plate.

The water reservoir or tank may be made air-tight and used as a hydrant-tank attachment for heating water.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The roasting or warming oven D, with the hot-air flue G between its top and top plate of stove, and the downward flue E between it and the baking-oven C, substantially as herein set forth.

2. The arrangement in a stove of the fire-chamber A, ash-box B, baking-oven C, roasting or warming oven D, flues G E J I, and water-reservoir H, with or without the direct-draft flue K, and with suitable damper or dampers, substantially as herein set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 27th day of January, 1871.

E. C. LITTLE.
D. H. NATION.

Witnesses:

A. E. UFFMAN,
B. S. BUCK.