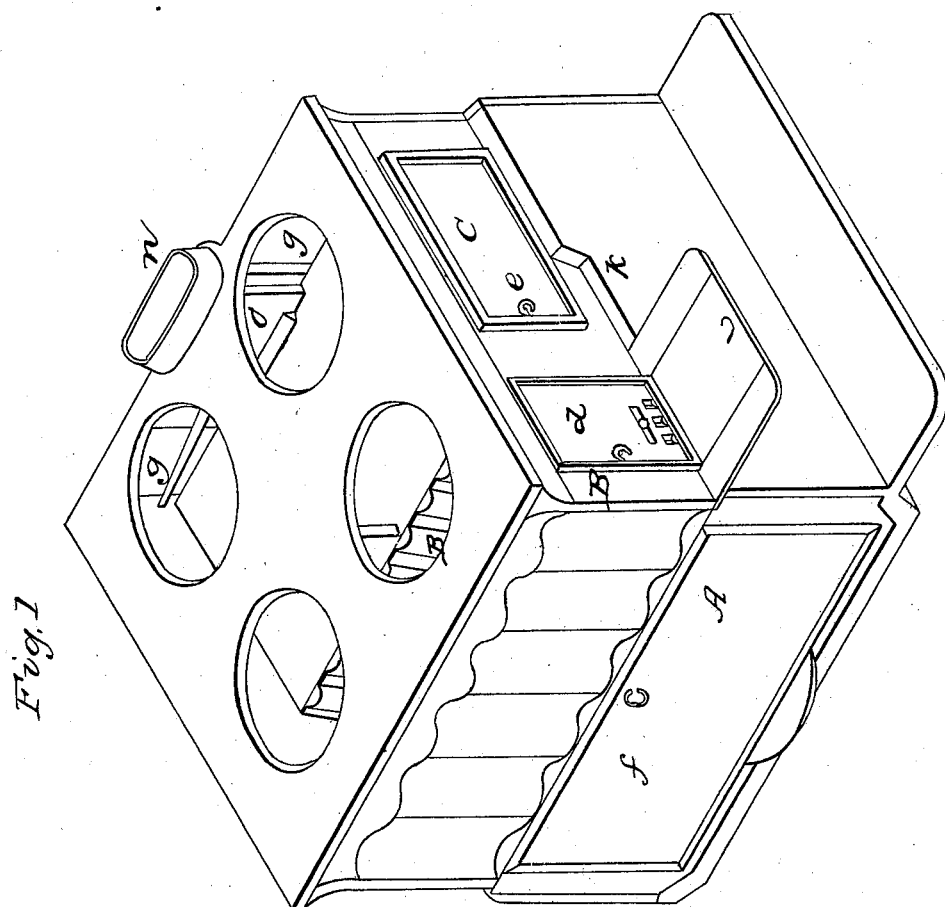
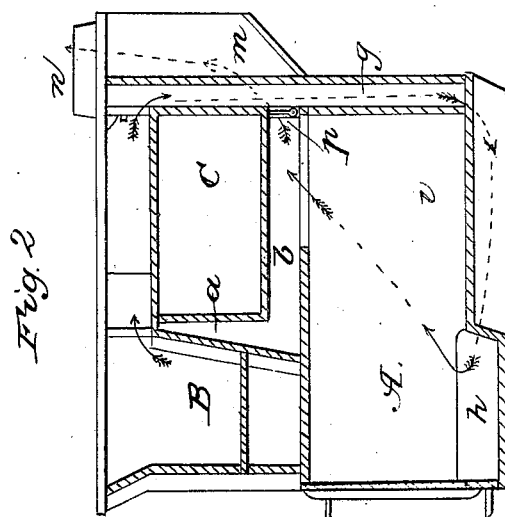


PAYSON, BURCH & DAVIS.

Cook Stove.

No. 4,863.

Patented Nov. 24, 1846.



UNITED STATES PATENT OFFICE.

DAVID F. PAYSON, NICHOLAS BURCH, AND RICHARD M. DAVIS, OF EATON, NEW YORK.

COOKING-STOVE.

Specification of Letters Patent No. 4,863, dated November 24, 1846.

To all whom it may concern:

Be it known that we, DAVID F. PAYSON, NICHOLAS BURCH, and RICHARD M. DAVIS, of Eaton, in the county of Madison and State of New York, have invented a new and useful Improvement in Flues of Cooking-Stoves for the Better Equalizing of Heat, &c., and that the following is a full, clear, and exact description of the principle or character which distinguishes it from all other things before known and of the manner of making, constructing, and using the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is an isometrical view of the outside of the stove, and Fig. 2, a vertical section with the side plate removed, showing the arrangement of flues.

The same letters indicate like parts in all the figures.

The great object in constructing a cooking stove is to obtain as much oven room as possible and to equalize the heat around it, so that the baking shall be done perfectly in any part. To obtain this end many and various devices have been resorted to, each more or less complicated, but we are not aware that the difficulties have all as yet been overcome, and great oven room and equal heat all around secured.

The construction of our stove is as follows: The outside is nearly cubical, the sides being ornamented or fluted to suit the purposes of the maker. An oven (A) extends over the whole lower part of the stove, and above it, in front, there is a fire chamber (B) with the usual appurtenances. Behind the fire chamber is a smaller oven (C) separated from the fire by two plates and an air space (a), which air space opens into a flue (b) below, as clearly shown in Fig. 2. The back and bottom of oven (C) are surrounded by a flue directly from the fire which will be more particularly described. The lower oven (A) has its back, bottom, and two sides heated by the flues together with all the top back of the fire chamber; the front part of the top receives its heat from the fire through the bottom of the ash pit. The door (d) of the fire chamber is on one side with the usual hearth, &c., below; back of this is the door (e) of oven (C), and the

lower oven door (f) is directly in front under the fire chamber. When both ovens are to be heated the heat and smoke, after passing from the fire under the boiler holes in the top of the stove and over the top oven to the back, descend two flues (g) (one in each corner) to the bottom of the stove, thence pass forward under the bottom oven to a point (h) see Fig. 2 where it issues on each side into a flue occupying the space between the side of the oven (i) and the outer side plate which is in Fig. 2 removed, said space being formed by projecting out the lower part of the side plate of the stove, as seen at (k) Fig. 1. This flue space communicates with another flue (b) above named, which is situated between the two ovens; from thence it issues from the stove through a flue (m) that is formed between the two descending flues (g) and is terminated at the top of the stove in the opening (n) for the stove pipe. An opening is made into this flue (m) from the top flue which must be closed by a damper (o) when either or both ovens are to be heated; this causes the draft to descend as low as the flue (b) into which it can be made to pass when the top oven only is to be used by opening two dampers (p) one of which only is shown see Fig. 2, opening into the flue (b) that connects it with the descending ones (g); but if both ovens are to be heated the dampers (p) are closed and the heat is turned down under the bottom of the lower oven, goes forward up the sides into flue (b) and thence out following the direction of the arrows in Fig. 2, and distributing the heat over the whole surface.

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

The construction and arrangement of the flues, as herein described, in combination with two ovens, so that a large portion of both ovens shall be surrounded by the flue, in the manner and for the purpose set forth.

DAVID F. PAYSON.
NICHOLAS BURCH.
RICHARD M. DAVIS.

Witnesses:

HORACE PARMENTER,
H. H. BEACH.