

E. F. MARTIN.

Cooking Stove.

No. 6,534.

Patented June 19, 1849.

Fig. 1

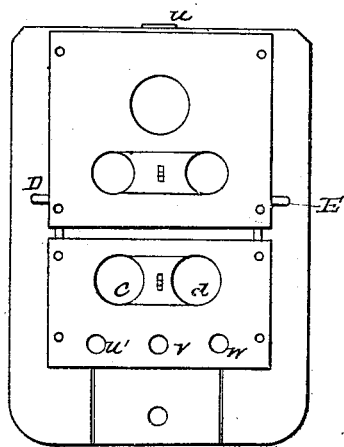


Fig. 4

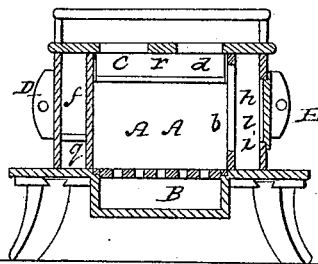


Fig. 2

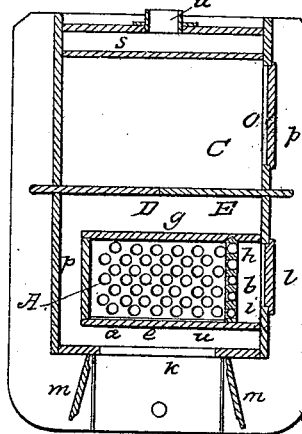
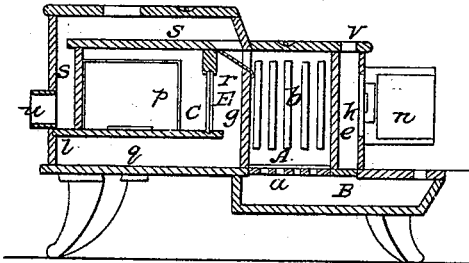


Fig. 3



UNITED STATES PATENT OFFICE.

EBEN F. MARTIN, OF ROCKPORT, MASSACHUSETTS.

COOKING-STOVE.

Specification of Letters Patent No. 6,534, dated June 19, 1849.

To all whom it may concern:

Be it known that I, EBENEZER F. MARTIN, of Rockport, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in the Cooking-Stove; and I do hereby declare that the same is fully described and represented in the following specification and accompanying drawings, letters, figures, and references thereof.

Of the said drawings Figure 1 denotes a top view, Fig. 2, a horizontal section, and Fig. 3 a central vertical and longitudinal section of my improved stove. Fig. 4 is a transverse and vertical section taken through the fire place.

In Figs. 2 and 3 of said drawings A, exhibits the fire place or chamber of combustion. It consists of a close chamber or box, except that it has a grate *a*, in the bottom of it, a removable upright grate *b* at one end of it, and two or more openings *c*, *d* made through its top and for the admission of fuel. The said fire chamber so made is surrounded on its front and rear sides and one end by a vertical air space *e*, *f*, *g*, the other end also having an air space *h* disposed by the side of it, as seen in Figs. 2 and 4. Each of said air spaces has a rectangular opening *i* or *k*, made through the stove plates, and having one or more closing doors *l* or *m*, *n*, applied to it. Below the grate *a* an ash box or receptacle B, is arranged in the usual manner.

Directly in the rear of the fire chamber and separated from it by the vertical air space *g*, the oven C is arranged, the said oven being made to extend from side to side of the stove, and to have an opening *o*, and closing door *p*, at one or both ends of it as occasion may require. The said oven is separated from the air space *g* by two vertical sliding doors D, E, which make part of its front side, and are so arranged as to be each capable of being drawn outward or laterally through its adjacent side of the stove. When so drawn out whether wholly or partly, they open a communication between the baking space of the oven and the air space *g* or *e*, *f*, *g*. The said space *g*, is continued underneath the entire bottom of the oven, or opens into a space *q*, extending directly under the oven.

The flue for discharging the smoke and volatile products of combustion is carried directly out of the back and after part of

the fire chamber A, as seen at *r*. It has no communication whatever with the air space or spaces surrounding the sides and ends of the fire place, and it is made to open directly into a space *s*, carried and made to extend directly over and against the entire top and rear side of the oven, it being separated from the air space under the oven, by a horizontal partition *t*, which is a continuation or extension of the bottom plate of the oven. A discharge pipe *u*, is led or carried out of the smoke flue space as seen in Figs. 2 and 3. There may also be one or more openings or pipes introduced into the back plate of the stove, and into the space under the oven, and so arranged as to allow the hot air of said space to either escape into the apartment in which the stove may be, or be led into any other room as occasion may require.

By opening the doors *m*, *n*, of the opening *k*, a roasting kitchen or apparatus may be set against the opening so as to receive heat from the front side of the grate when such may be required. By means of the air spaces *e*, *f*, *g* the space under the oven, and the slide doors D, E, the heat of the two sides and one end of the fire chamber may be thrown into the oven or under it, and to such extent as circumstances may require. When the slides D, E, and the doors *m*, *n*, are entirely opened the oven becomes a roasting apparatus, made to operate like the ordinary tin kitchen when set up against a fire, the usual objections which result from baking meats, being overcome thereby, and in order to render it more effective for such purpose, I usually line a part or the whole of its inside surface with a reflecting material such as tinned iron or other proper material. The object of the removable grate *b* is to enable a person to introduce and burn long sticks of wood, in the furnace or fire place, or such sticks as cannot be conveniently introduced or passed through the top openings of the said fire place. The top of the front air space *e*, I usually puncture with holes or orifices *u'*, *v*, *w*, for the reception of small kettles or pots, which in order to warm their contents, may be inserted in or over the same, under other circumstances the said holes may have small covers applied to them so as to close them. By incasing the fire place within an air chamber or space, heat radiated from its external sides may be carried off either into the oven,

or into a chimney or warming flues as above specified, so that in summer such heat may be carried off, and not received into the apartment in which the stove may be, while
5 in winter it may be introduced into the said apartment if desirable.

I lay no claim to the extending of an oven or oven space around a fire pot or chamber of combustion so that the heat from
10 the whole or any part or portions of the external sides of said fire pot or chamber may be communicated to the air within the oven; nor do I claim to so connect the oven by air pipes or otherwise with a space
15 around the fire pot or chamber, and having contrivances to admit cold air from without, that air which may pass into and be heated within said space may be conveyed into the oven; nor do I claim the invention of carry-
20 ing the smoke and volatile products of combustion from the fire place or fire pot over

around or against the whole or any part or portion of an oven, but—

What I do claim as my invention, is—

The hereinabove explained combination 25 of the oven with the air space *e, f g* and fire chamber, by means of the sliding doors as specified, the same being for the purpose of either enabling a person to make use of the oven either for baking or roasting as speci- 30 fied, or to make use of it for baking while the roasting is done, in a roasting apparatus set up against the opening *k*, as hereinbefore explained.

In testimony whereof I have hereto set 35 my signature this tenth day of November A. D. 1848.

EBEN. F. MARTIN.

Witnesses:

JAMES P. FARR,
AZOR KNOWLTON, JR.