

W. ABENDROTH.

Cooking Stove.

No. 7,297.

Patented April 23, 1850.

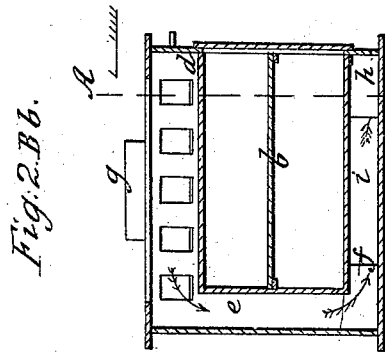


Fig. 3 C.c.

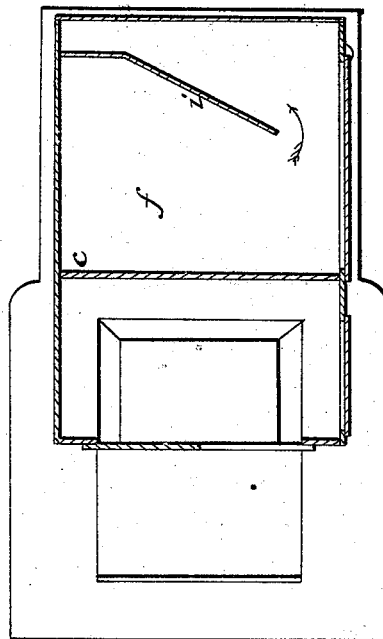
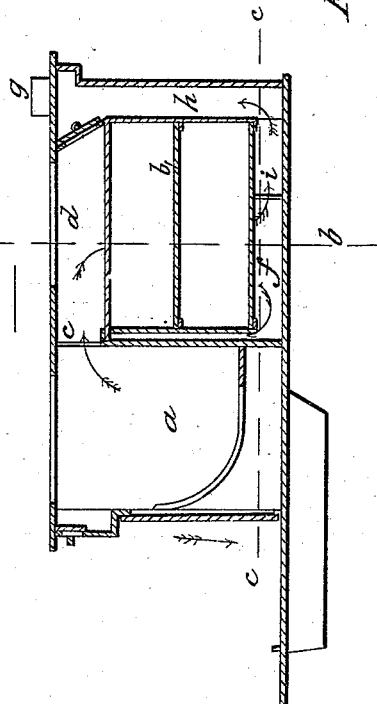


Fig. 1.Aa.



UNITED STATES PATENT OFFICE.

WM. ABENDROTH, OF PORT CHESTER, NEW YORK.

COOKING-STOVE.

Specification of Letters Patent No. 7,297, dated April 23, 1850.

To all whom it may concern:

Be it known that I, WILLIAM ABENDROTH, of Port Chester, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Cooking-Stoves, and that the following is a full, clear, and exact description of the principle or character which distinguishes them from all other things before known and of the method of making, constructing, and using the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a longitudinal vertical section taken at the line A, *a*, of Fig. 2; Fig. 2 a cross section taken at the line B, *b*, of Fig. 1; Fig. 3 a horizontal section taken at the line C, *c* of Fig. 1.

The same letters indicate like parts in all the figures.

The object of my invention is to distribute the heat as much as possible over the oven without disturbing the draught, and consists in carrying the products of combustion over the top of the oven from the fire chamber, the said product entering the flue immediately over the fire chamber, through an opening in the partition plate on the right hand side; thence they are carried down through a side flue on the left hand side of the oven; thence through a flue under the oven which flue communicates with the air chamber between the fire chamber and oven; thence up the upright flue at the back of the exit pipe.

In the accompanying drawings (*a*) represents the fire chamber and (*b*) the oven. The products of combustion pass through a hole at the right hand end of the plate (*c*) to the flue (*d*) immediately over the oven

(*b*); thence it is carried down through a broad flue (*e*) the same size as the oven on the left hand side thereof to the horizontal flue (*f*) immediately under the oven, and thence to the smoke pipe (*g*) through the upright flue (*h*). The plate (*i*), which separates the horizontal flue under the oven from the upright flue which leads to the smoke pipe, is bent out under the oven to cause the heat and products of combustion to circulate more generally under the bottom of the oven.

The arrows in Fig. 1 show the course of the heat and products of combustion from the entrance to the flue over the oven to the broad vertical flue on the left hand side of the oven, and in Fig. 2 they show the course thereof to the horizontal flue under the oven, and in Fig. 3, from said horizontal flue to the upright flue leading to the smoke pipe.

It is obvious that the course of the heat and products of combustion may be reversed and they made to enter the flue over the oven on the left hand side and descend to the bottom flue on the right hand side.

What I claim as my invention and desire to secure by Letters Patent is—

Causing the heat and products of combustion to enter the flue over the oven on one side and carrying the same across the top of the oven, down the other side thereof in a broad sheet, thence under the oven, and thence up in a broad flue to the smoke pipe, substantially as described.

WM. ABENDROTH.

Witnesses:

ALEX. PORTER BROWN,
WM. BROWN.