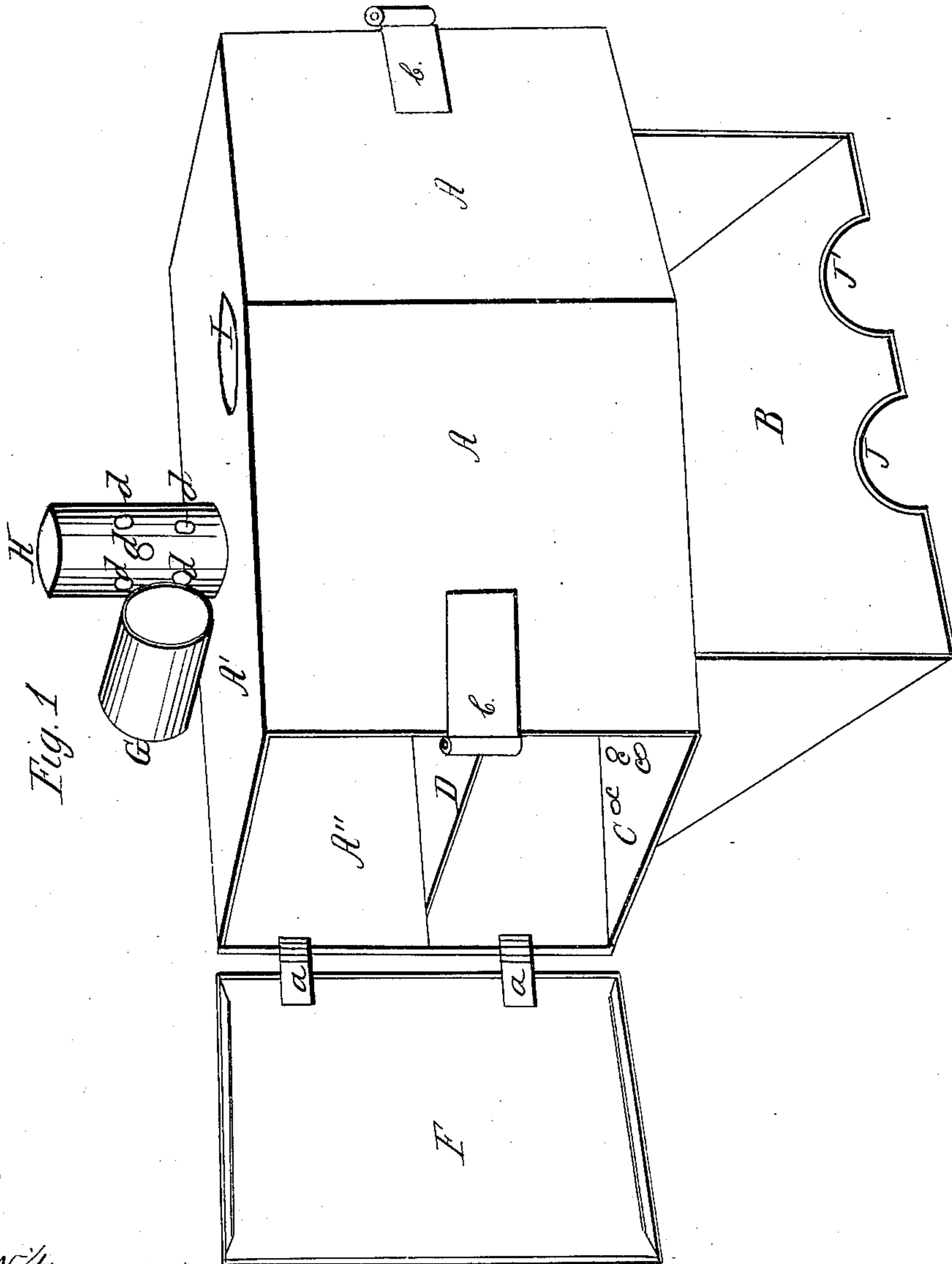


2 Sheets. Sheet 1.

*D. C. Galby,*  
*Fruit Drier.*

*No. 30,105.*

*Patented Sep. 18. 1860.*



*Witnesses;*  
*Loctia Burke*  
*James M. Burke*

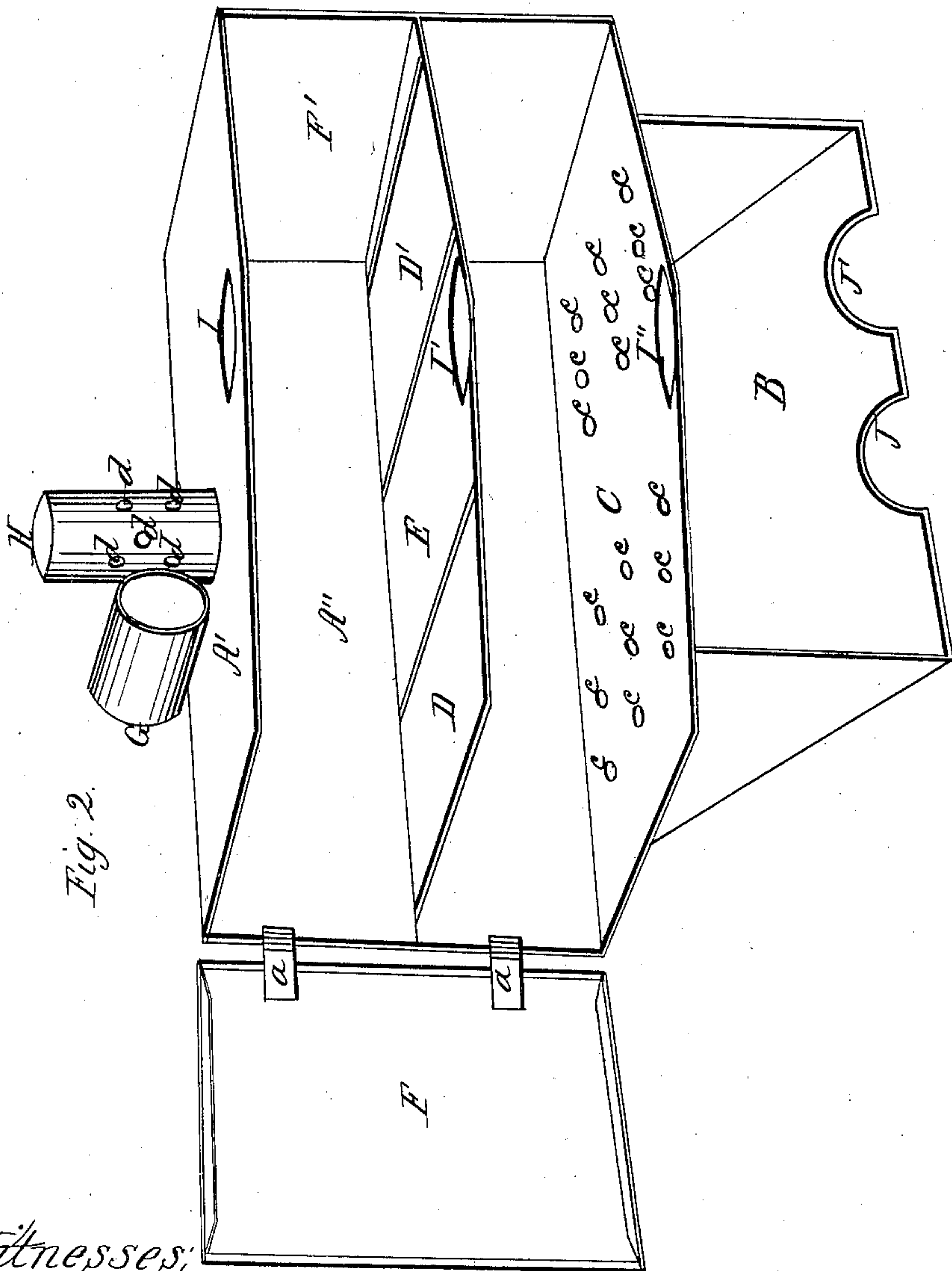
*Inventor;*  
*Daniel C. Galby*

D. C. Colby,

Fruit Drier.

No. 30,105.

Patented Sept. 18. 1860.



Witnesses;  
Gratia Barker  
Honey No. 100

Inventor;  
Daniel C. Colby



# UNITED STATES PATENT OFFICE.

DANIEL C. COLBY, OF NEWPORT, NEW HAMPSHIRE, ASSIGNOR TO HIMSELF AND  
EDMUND BURKE, OF NEWPORT, NEW HAMPSHIRE.

## FRUIT-DRYING ATTACHMENT TO COOKING-STOVES.

Specification of Letters Patent No. 30,105, dated September 18, 1860.

*To all whom it may concern:*

Be it known that I, DANIEL C. COLBY, of  
Newport, in the county of Sullivan and  
State of New Hampshire, have invented a  
5 new and useful Apparatus for Warming  
and Drying, which I denominate "Colby's  
Extra Oven and Fruit-Dryer;" and I do  
hereby declare that the following is a full,  
clear, and exact description of the construc-  
10 tion and operation of the same, reference be-  
ing had to the annexed drawings, making a  
part of this specification, in which—

Figure 1 is a perspective view of the en-  
tire apparatus, with one of its doors open  
15 and displaying a view of the interior of the  
same, and Fig. 2 is a view of the interior of  
said apparatus, the front side or wall there-  
of being removed.

The same letters in the different figures  
20 represent corresponding parts of the same  
apparatus.

A, A, represents the front side or wall of  
the oven, which may be constructed with a  
plane, curved, or angular surface (as seen in  
25 Fig. 1,) to accommodate it to the different  
stoves to which it may be attached.

A', is the top plate, and A'', the back  
wall or side, of said oven.

B, is a chamber for the reception of the  
30 heated air which is generated by radiation  
from the stove, and for its conduction into  
the interior of the oven.

J, J', are orifices in the lower part of  
chamber B, for the admission of air from  
35 the outside, more of which orifices may be  
added, or they may be made in any other  
form, as convenience may suggest.

C, is the bottom plate, or partition of the  
oven, containing perforations *c, c*, &c., for  
40 the admission of the heated air into the oven.

The central partition or shelf of the oven  
is composed of three separate plates D, E,  
D', of which the central plate E, is perman-  
ent, and the plates D, D', are movable, and  
45 can be taken out from their places at pleas-  
ure. The two last mentioned plates do not  
extend to their respective ends of the oven,  
thus leaving apertures at each end for the  
diffusion of the heated air in the lower  
50 chamber of the oven, and its admission into  
the upper chamber.

F, F, are doors at each end of the oven,  
being hung on hinges *a, a*, and confined by  
clasps *b, b*.

H, is a flue with perforations *d, d*, &c., for 55  
the escape of the heated air from the oven.

G, is a cap for covering and regulating  
the escape of the heated air, and for pre-  
venting it entirely when necessary to secure  
its accumulation in the oven for the pur- 60  
pose of baking.

I, I', I'', are orifices for the passage of the  
stove funnel.

The object of my improved oven is, to in-  
tercept the heat which radiates from the 65  
stove, and which passes off into the room,  
and apply the same to the purposes of  
warming and drying. It is a well known  
fact that, as the heat radiates from the sur-  
face of a stove or other heated body, it as- 70  
cends. I avail myself of this fact, and inter-  
cept this ascending heat, by the apparatus  
above described, which I place upon the top  
of a stove, and confine it there by means of  
the stove funnel which passes through the 75  
orifices I, I', I'', the receiving chamber B,  
being fitted as closely as practicable to the  
side of the stove, to receive the heat radi-  
ated from the stove, and the air passing  
through the orifices J, J'. In the chamber 80  
B, the air received through the orifices J, J',  
becomes heated, and thence passes through  
the perforations *c, c*, &c., in the partition C,  
into the lower chamber of the oven. It is  
there diffused through the lower chamber by 85  
means of the middle partition composed of  
the plates D, E, D', and thence passes  
through the apertures above described at the  
ends of the plates D, D', into the upper  
chamber of the oven, and thence it passes out 90  
through the escape flue H.

I construct my oven of tin, or sheet iron,  
or other suitable metal, and vary its form as  
may be necessary to adapt it to the different  
stoves to which it may be attached, without 95  
interfering with the principle which it em-  
bodies. The plates D, E, D', composing the  
middle partition, may be made of wire  
gauze.

My oven may be used for a great variety 100  
of purposes in the culinary department of  
the kitchen, and is of very great convenience.  
It may be used for warming plates, and  
cooked food, or other articles, and for light  
baking such as custards and the like, and for 105  
drying fruits such as berries, sliced apples,  
pumpkins, squash, green peas, herbs, &c.  
When used for baking the doors should be



closed, and the cap G, placed upon the escape flue H, so as to cover the top of the same, and more or less of the perforations *d*, *d*, &c.

When used for drying fruits, &c., and when  
5 it is desirable that there should be a free circulation of the air in the oven, the cap G, may be removed, wholly or partially, from the escape flue H and its perforations *d*, *d*, &c., and the doors F, F', may be opened,  
10 more or less, if necessary. By means of the doors F, F', the escape flue H, and the cap G, the circulation of the heated air in the oven may be regulated at pleasure.

Having above described the construction

of my said invention, and its mode of operation, what I claim and desire to secure by Letters Patent, is—

The receiving chamber B, the perforated partition C, the central partition composed of the plates D, D', and E, and the escape  
20 flue H, in combination with the box composed of the wall plates A, A, the top plate A', and the doors F, F', constructed and arranged as above set forth.

DANIEL C. COLBY.

Witnesses:

GRATIA BURKE,

FRANCIS M. BUBKE.