Aug. 14, 1928. 1,680,456

J. F. FIRESTONE

OVEN

Filed Feb. 13, 1928

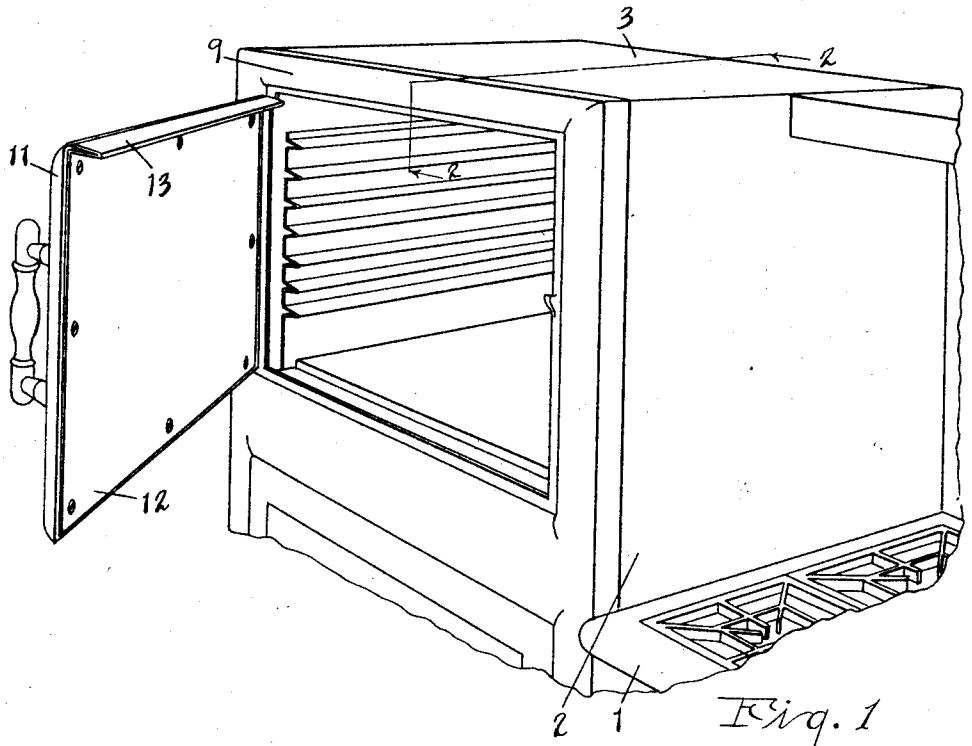


Fig. 1

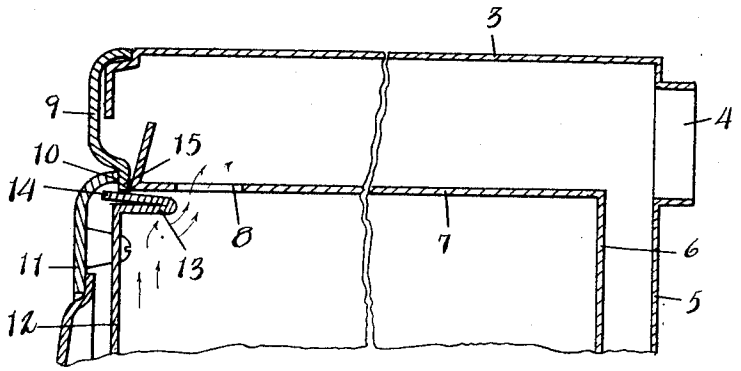


Fig. 2

INVENTOR
James F. Firestone
BY Chappell & Ford
His ATTORNEYS

Patented Aug. 14, 1928. 1,680,456

UNITED STATES PATENT OFFICE.

JAMES F. FIRESTONE, OF DOWAGIAC, MICHIGAN, ASSIGNOR TO THE BECKWITH COMPANY, OF DOWAGIAC, MICHIGAN.

OVEN.

Application filed February 13, 1928. Serial No. 254,113.

The main object of this invention is to provide an improved oven for gas stoves in which the fumes are effectively carried from the oven to a vent and do not escape to the outside at the top of the door or between the door and its frame.

Objects pertaining to details and economies of the invention will definitely appear from the description to follow. The invention is pointed out in the claims.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawing, in which:

Fig. 1 is a fragmentary perspective view of an oven embodying the features of my invention with the door partially open.

Fig. 2 is a fragmentary vertical section on a line corresponding to line 2—2 of Fig. 1.

Referring to the drawing, 1 represents the open or cooking top unit of a gas stove and 2 the oven. This oven is, in the embodiment illustrated, provided with an outer casing 3 having a vent 4 in its rear wall 5. The inner casing designated generally by the numeral 6 is spaced from the outer casing, the top wall 7 of the inner casing having one or more vent openings 8 adjacent the front thereof. The fumes pass from the oven through this vent opening 8 rearwardly between the top walls of the casings to the exit 4.

The door frame 9 is provided with an inwardly seating forwardly facing jamb 10. The door 11 is hinged to this frame and is provided with a lining 12. At its upper end the lining is folded upon itself to provide a horizontally disposed flange 13 which closes into the door opening. The outer free arm 14 of this flange provides a spring member which yieldingly engages the top edge 15 of the door opening.

This inwardly projecting flange 13 serves as a deflector directing the fumes passing from the oven through the vent opening 8 and preventing their passing out at the upper edge of the door, thus not only preventing the fumes escaping into the room but preventing the discoloration of the finish or tarnish.

I have illustrated my improvements in a very simple and practical embodiment. I have not attempted to illustrate various modifications and adaptations as I believe this disclosure will enable those skilled in the art to adapt my improvements as may be desired.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. An oven comprising a top provided with a vent opening adjacent the front thereof, a door frame, a door hinged to said frame to close against the front side thereof, and a lining for said door having its upper edge folded upon itself providing a horizontally disposed flange projecting into the opening of the door frame, the free arm of said flange being adapted to yieldingly engage the top edge of the door frame when the door is closed.

2. An oven comprising a top provided with a vent opening adjacent the front thereof, a door frame, a door hinged to said frame to close against the front side thereof, and a lining for said door having its upper edge conformed to provide a horizontally disposed flange projecting into the opening of the door frame, the free arm of said flange being adapted to yieldingly engage the top edge of the door frame when the door is closed.

3. An oven comprising a top wall having a vent opening adjacent the front thereof, a door frame provided with a forwardly facing jamb, a door hinged to said frame to close against said forwardly facing jamb, and a lining for said door having its upper edge folded upon itself and disposed horizontally providing an inwardly projecting flange projecting into the door frame when the door is closed to deflect the products of combustion from the top of the door into said vent opening.

4. An oven having a top wall with vent openings adjacent the front edge thereof, and a door provided with an inwardly directed flange adjacent its upper edge adapted to project into the oven when the door is closed to deflect the fumes passing from the

oven into said vent openings and away from the joint between the top of the oven door and its frame.

5. The combination with an oven provided with a top having a vent opening at the front thereof, and a door provided with an inwardly projecting flange at its upper edge adapted to close into the door opening to protect the joint between the upper edge of the door and its frame.

In witness whereof I have hereunto set my hand.

JAMES F. FIRESTONE.