

F. SANTOSKI.
ILLUMINATED OVEN FOR STOVES.
APPLICATION FILED APR. 24, 1908.

900,211.

Patented Oct. 6, 1908.

2 SHEETS—SHEET 1.

FIG. 1.

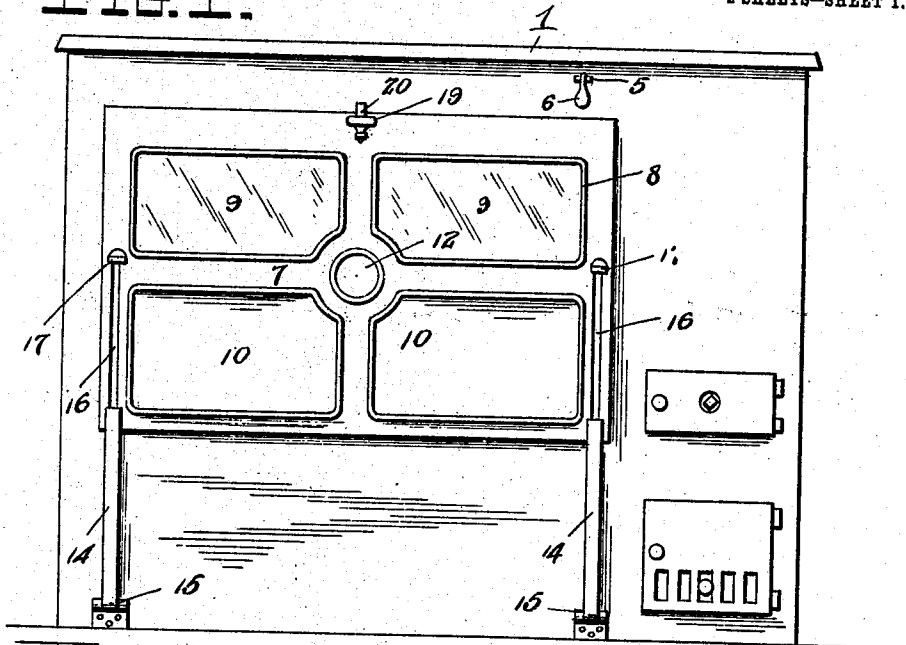
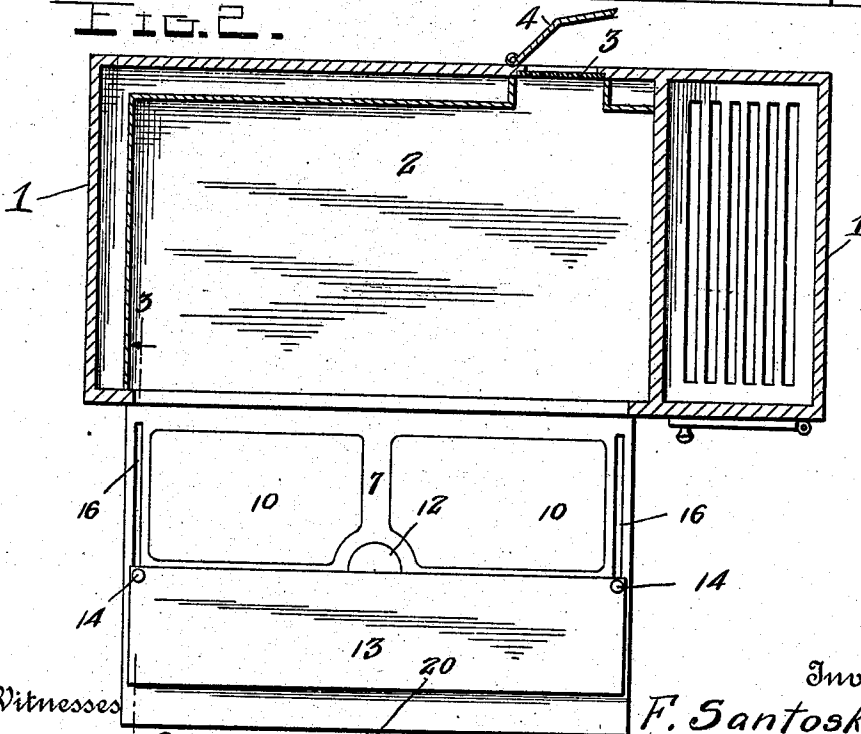


FIG. 2.



Witnesses

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2 SHEETS—SHEET 2.

FIG. 3.

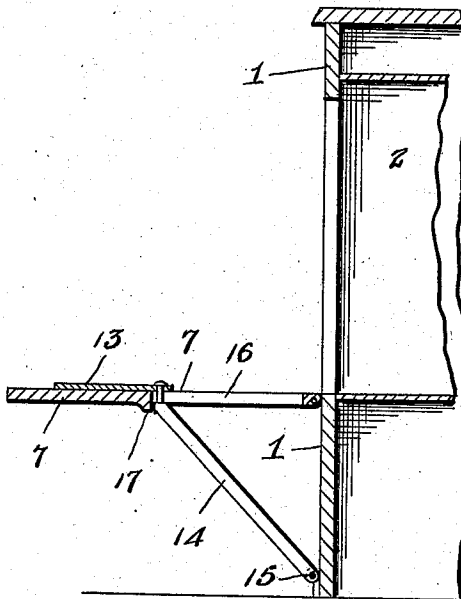


FIG. 4.

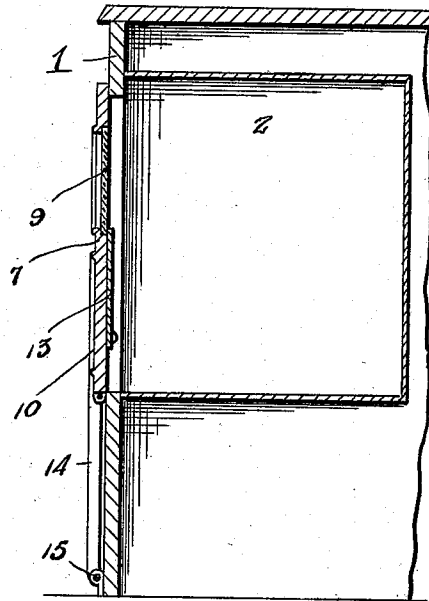
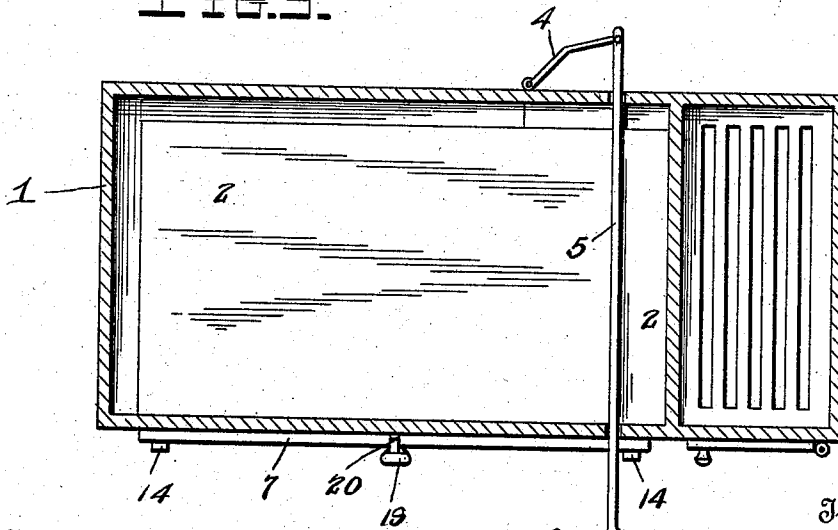


FIG. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

FRED SANTOSKI, OF STEVENS POINT, WISCONSIN.

ILLUMINATED OVEN FOR STOVES.

No. 900,211.

Specification of Letters Patent.

Patented Oct. 6, 1908.

Application filed April 24, 1908. Serial No. 429,003.

To all whom it may concern:

Be it known that I, FRED SANTOSKI, citizen of the United States, residing at Stevens Point, in the county of Portage and State of Wisconsin, have invented certain new and useful Improvements in Illuminated Ovens for Stoves; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in illuminated ovens and doors for the same.

The object of the invention is to provide an oven having means whereby the same is illuminated from the rear and provided with a door having transparent panels whereby light is admitted from the front, and by means of which the contents of the oven may be observed.

A further object is to provide an automatically-operated shield or protecting plate adapted to protect the glass panels in the door when the latter is in an open position.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be described and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a front view of a portion of a stove having an oven constructed in accordance with the invention; Fig. 2 is a horizontal sectional view through the same, showing the door in an open position; Fig. 3 is a vertical cross sectional view on the line 3—3 of Fig. 2; Fig. 4 is a similar view showing the door in closed position; and Fig. 5 is a horizontal sectional view through the top of the stove showing the manner in which the reflector for the rear light-opening in the oven is operated to throw the light into the oven.

Referring more particularly to the drawings, 1 denotes a stove or range, which may be of any desired construction and in which is arranged an oven, 2. In the rear side of the stove and oven is formed a light-opening, in which is arranged a transparent panel, 3, which is preferably formed of glass, but which may be formed of any other suitable transparent material. Hinged to the rear side of the stove is an angularly

formed reflector, 4, which is adapted to be adjusted to throw the light through the panel, 3, and into the oven.

The reflector is provided with means whereby the same may be shifted to the proper angle for directing the light into the oven, said means being here shown and preferably consisting of an operating rod, 5, which is preferably arranged in the upper portion of the stove above the oven and extends through the front and rear sides thereof, and is connected at its rear end to the upper end of the reflector and at its front end is provided with a suitable handle, 6. By means of an operating rod arranged as here shown and described, the reflector may be adjusted to the proper angle from the front side of the stove.

The oven is provided with a door, 7, which is hinged at its lower edge and adapted to open outwardly and downwardly as clearly shown in Figs. 2 and 3 of the drawing. The door 7 consists of a skeleton frame arranged to form panel openings 9. In the two upper panel openings are arranged transparent panels, 9, while in the two lower openings are arranged metallic panels, 10. The transparent panels 9 are preferably formed of glass, but may be formed of any suitable transparent material. If desired, the center of the door frame may be provided with an opening, 12, to receive an oven thermometer.

On the inner side of the oven door is arranged a shield or panel protecting plate, 13, which is connected at its opposite ends and near its lower edge to combined operating and oven supporting rods, 14, the lower ends of which are hingedly connected to the front side of the stove below the oven door as shown at 15, while the reduced upper ends of said rods are bent at an angle and project through vertically disposed slots, 16, which are formed in the door adjacent to its opposite ends, as shown. The inwardly projecting ends of the rods 14 may be secured to the protecting plate, 13, in any suitable manner, but are preferably passed therethrough and headed as shown. By thus arranging the rods 14 and connecting the same with the plate, 13, the latter will be moved forwardly across the transparent panels in the upper portion of the door when the latter is swung

down to an open position as clearly shown in Figs. 2 and 3 of the drawing. When the door is closed or swung upwardly, the rods 14 will draw the protecting plate downwardly from across the transparent panels to a position in rear of the metal panels, 10, thereby uncovering the transparent panels so that the contents of the oven may be readily observed therethrough. When the protecting plate 13 is in an operative position over the transparent panels, 9, the latter are protected from being scratched by the pans or cooking utensils when drawn out of the oven, and will be protected from being broken by objects falling thereon, or by water, which, if dropped on the panels when in a heated condition, would be apt to crack the same.

On the outer side of the door adjacent to the upper ends of the slots, 16, are formed stop lugs, 17, against which the upper ends of the operating rods, 14, bear when the door is lowered to an open position, said operating rods and lugs thus forming a support for the door when in an open position. The door is provided with a suitable operating handle, 19, and latch, 20, by means of which the same is opened and closed and held in a closed position.

By means of the transparent panel in the rear and the observation panels in the door, the contents of the oven may be watched without the necessity of opening the door during the cooking operation.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention as defined in the appended claims.

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

1. In an oven, a door having arranged therein transparent panels, a cover to protect said panels when the door is in an opened position, and means to operate said cover whereby when the door is in closed position, said panels will be uncovered, substantially as described.

2. In an oven, a door having arranged therein transparent panels, and means operated by the opening and closing of the door to cover and uncover said panels, thereby preventing the same from being broken when the door is in an open position, substantially as described.

3. In an oven, a door having arranged therein transparent panels, a protecting

plate to cover said panels, and combined door-supporting and plate-operating rods adapted to support the door in its open position and to move said plate over the panels when the door is opened, substantially as described.

4. An oven having arranged in its rear side a transparent panel, a door having therein transparent panels, a protecting plate to cover the panels in said door, and combined door-supporting and plate-operating devices adapted to move said plate over the panels when the door is opened and to support the door in an open position, substantially as described.

5. An oven having in its rear side a transparent panel, a reflector to throw the light into the oven through said panel, a door having transparent panels, a protecting plate to cover the panels in said door, and combined door-supporting and plate-operating rods adapted to support the door in an open position and to move said plate across the transparent panels when the door is opened, substantially as described.

6. An oven having therein a transparent panel, an adjustable reflector to throw the light through said panel and into the oven, means to adjust said reflector to various angles, a door having transparent panels, door-supporting rods, and means operated by said rods to cover and protect said panels in the door when the latter is in an opened position, substantially as described.

7. An oven having arranged in its rear side a transparent panel, an adjustable reflector to throw the light into the oven through said panel, an operating rod connected to said reflector and extending to the front side of the stove, a door having therein transparent panels, a protecting plate adapted to be moved over said panels when the door is in an opened position, and combined door-supporting and plate-operating rods hingedly connected to the sides, whereby the protecting plate is moved across the transparent panels when the door is opened, substantially as described.

8. In an oven, a door consisting of a skeleton frame arranged to form panel openings, said frame having formed therein transversely disposed slots, metallic panels arranged in the lower panel openings of the door, transparent panels arranged in the upper panel openings thereof, a protecting plate arranged on the inner side of the door, combined door-supporting and plate-operating rods hingedly connected at their lower ends and provided at their upper ends with reduced extensions adapted to enter the slots in the door frame, and to engage said protecting plate whereby when the door is swung to an open position, said plate will

be moved across or over said transparent panels, and stop lugs formed on the outer side of the door frame and adapted to be engaged by the upper ends of the supporting rods when the door is swung to an open position, substantially as described.

5 In testimony whereof I have hereunto set

my hand in presence of two subscribing witnesses.

FRED SANTOSKI.

Witnesses:

Mrs. FRED SANTOSKI,
T. L. N. PORT.