

No. 741,704.

PATENTED OCT. 20, 1903.

G. OTT.
OVEN.

APPLICATION FILED MAR. 19, 1903.

NO MODEL.

Fig. 1.

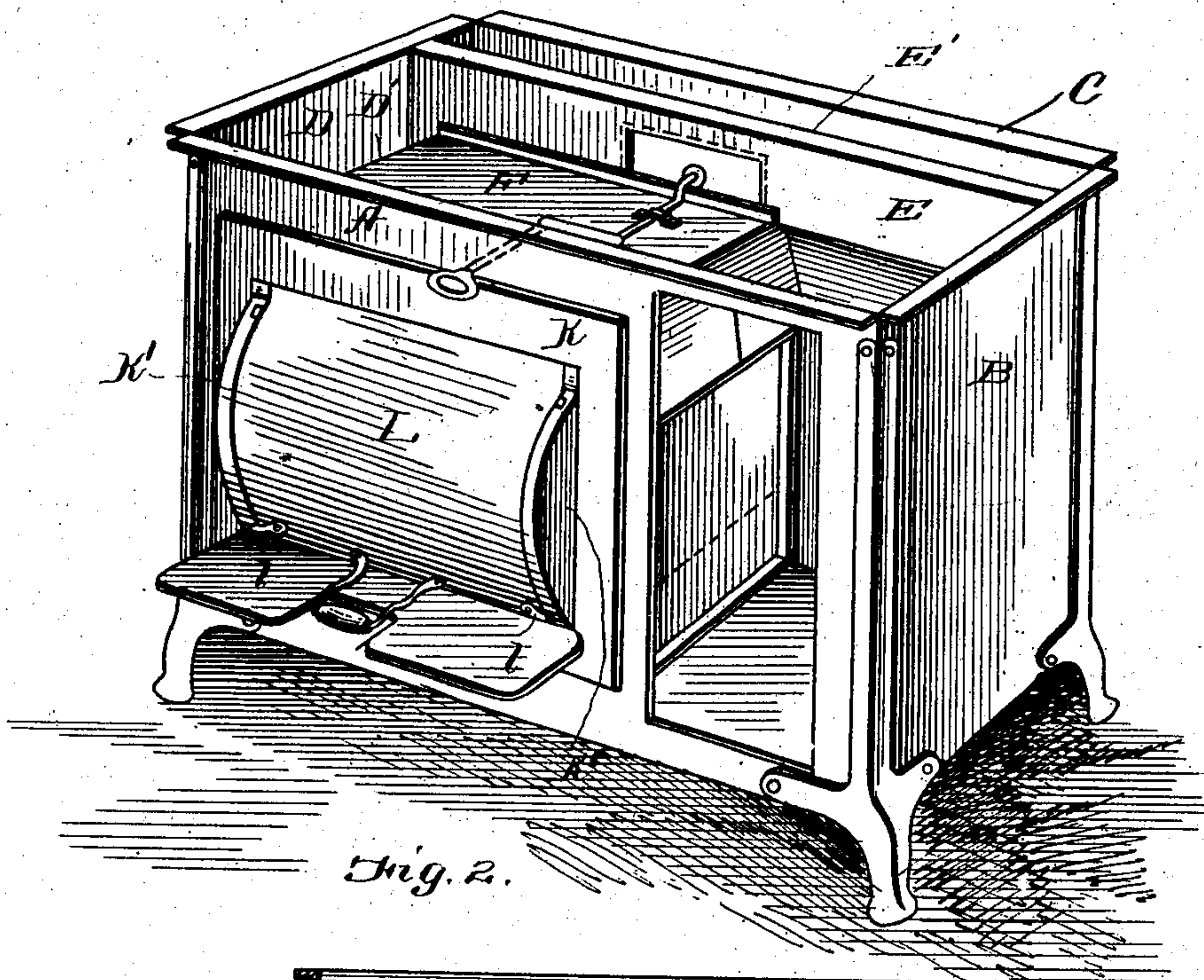
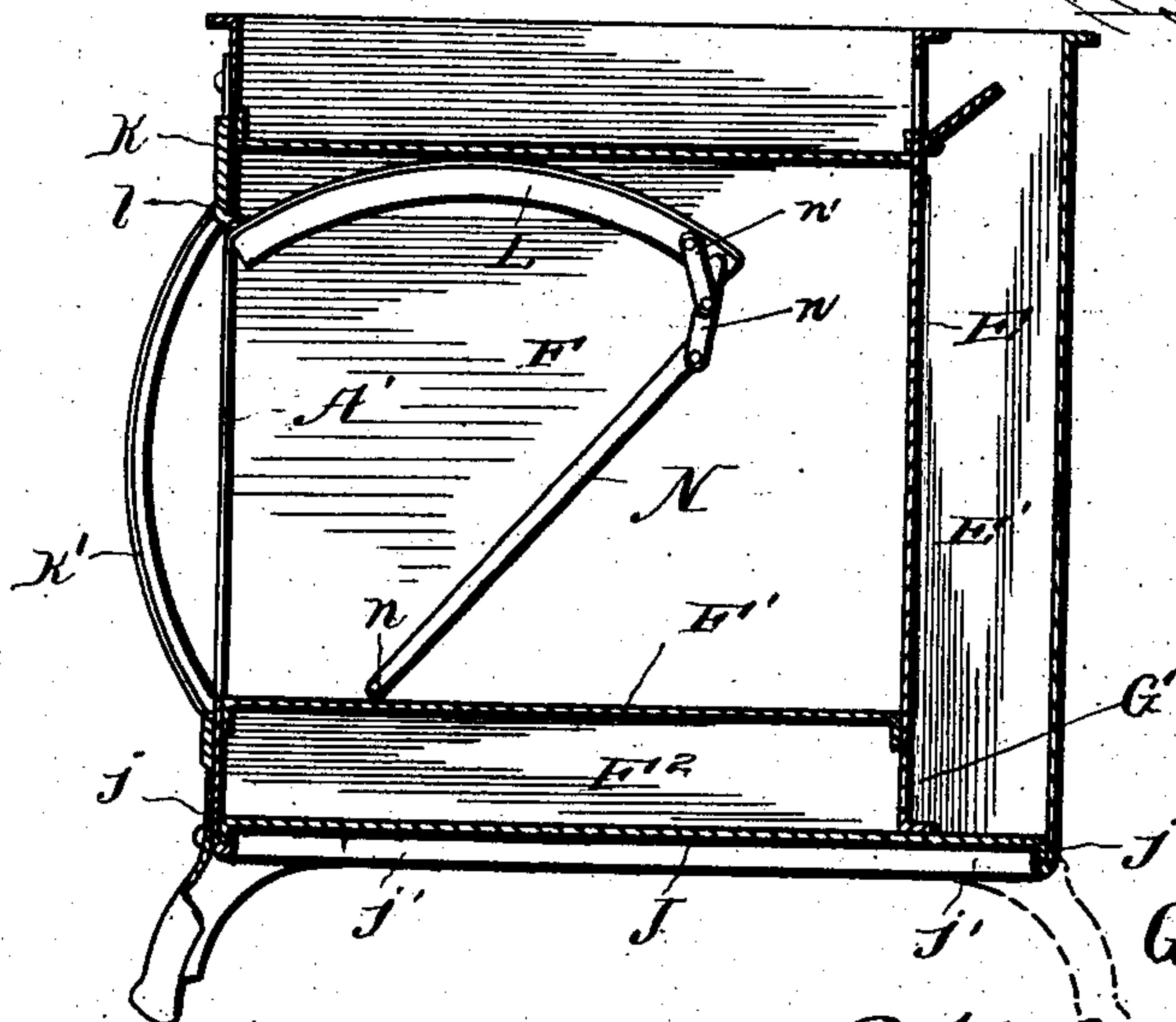


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

GUSTAV OTT, OF CLEVELAND, OHIO.

OVEN.

SPECIFICATION forming part of Letters Patent No. 741,704, dated October 20, 1903.

Application filed March 19, 1903. Serial No. 148,564. (No model.)

To all whom it may concern:

Be it known that I, GUSTAV OTT, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Ovens; and I do hereby 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 pertains to make and use the same.

This invention relates to certain new and useful improvements in the means for hanging of oven-doors used in connection with ranges and the like; and the primary object thereof is to provide a door and the hanging means therefor which will be simple both from an economical and convenient standpoint.

My invention further consists in the details of construction whereby the above-enumerated features are carried out and used, all of which will be hereinafter fully set forth and claimed.

In the accompanying drawings, Figure 1 is a view in perspective of a range provided with a door embodying the present invention. Fig. 2 is a central vertical transverse section of the same, the door in this view being shown in open position.

A, B, C, and D represent the side or outer walls of the range, which may be made in sections and joined together at the corners, as illustrated in the drawings.

F represents the oven-box, which is inclosed at all points within the range, but has an opening at the face A for the door. The bottom F' of this oven-box is raised, so as to leave an opening or space F² between it and the bottom of the range, and this opening communicates with the flue D' and also with the smoke-box E', which is formed by arranging the diaphragm E between the end walls and spacing the same from the wall C of the range.

The detail construction of the range as described in the foregoing constitutes no part of the present invention, the same being embodied in a companion application bearing Serial No. 128,003; but, as heretofore stated, the oven-door constructing a hanging means constitutes the present invention, and I will now proceed to describe the same in detail in

connection with the oven-box heretofore described.

An opening A' is provided in the wall A of the range, this opening being approximately equal in width and height to the adjacent end of the oven-box. A frame K is provided for this opening and is bolted or riveted to the wall A. This frame K has two outwardly-projecting curved side flanges or ledges K', extending vertically and curving outwardly in approximately an arc of a circle. The periphery or curved edges of the flanges or ledges K' form runners or guides for an outwardly and downwardly curved door L, the door being provided with clips l l, which engage the edges of the flanges K', and it is thus that the door is guided along in its upward and downward movement. The door L as it is raised slides inward within the oven-box, and in order to retain or sustain the inner end of the door L and cause it to slide in a direction approximately parallel with the top of the oven-box I have provided rotary rods N, which are pivoted at their lower ends, as at N, to the side walls of the oven and to the upper portion of the door L by the links n n'. These rods N (of which there are two, one at each side of the oven-door and one of which is shown in Fig. 2) constitute the pivotal connection of the door L and guide the same along the upper end of the oven-box, so that when the door occupies an open position it will lie entirely out of the way or, in other words, beneath the top wall of the oven.

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

1. A door for a range-oven, the same being downwardly and outwardly curved, and adapted to be operated in a vertical direction, pivoted radial rods for supporting the free ends of the door, and having their outer ends pivoted in relation thereto and guides embodying ways or tracks, engaged by the lower end of the door, substantially as and for the purpose set forth.

2. The combination with the range, of the oven thereof, of a frame secured to the front wall of the oven, outwardly and downwardly curved guides secured to said frame, and having their upper and lower ends lying in the

same plane, a door curved to conform to the curvature of said guides, and having its lower end slidably mounted thereon, and means arranged within the oven for pivotally supporting the upper end of the said door.

3. The combination with the range and the oven, said range having its front wall formed with an opening, a frame secured to the front wall of said oven and encircling the opening thereof, guides carried by said frame, an oven-door, clips secured to said door engaging said guides, rods pivoted within the oven, and links connecting said rods, to the upper end of said door.

4. A range comprising an oven-box, open at one side, a door for closing the said open-

ing, said door being hinged to radial bars pivoted at one end to the upper portion of the door, and at their other end within the oven-box, the whole being arranged and constructed so as to form the pivotal portion of the door in relation to the range and to support the door in a position approximately parallel with the top of the oven-box.

Signed at Cleveland, in the county of Cuyahoga and State of Ohio, this 16th day of March, 1903.

GUSTAV OTT.

Witnesses:

E. B. DONNELLY,
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