

J. H. POWELL.
Stove.

No. 209,982.

Patented Nov. 19, 1878.

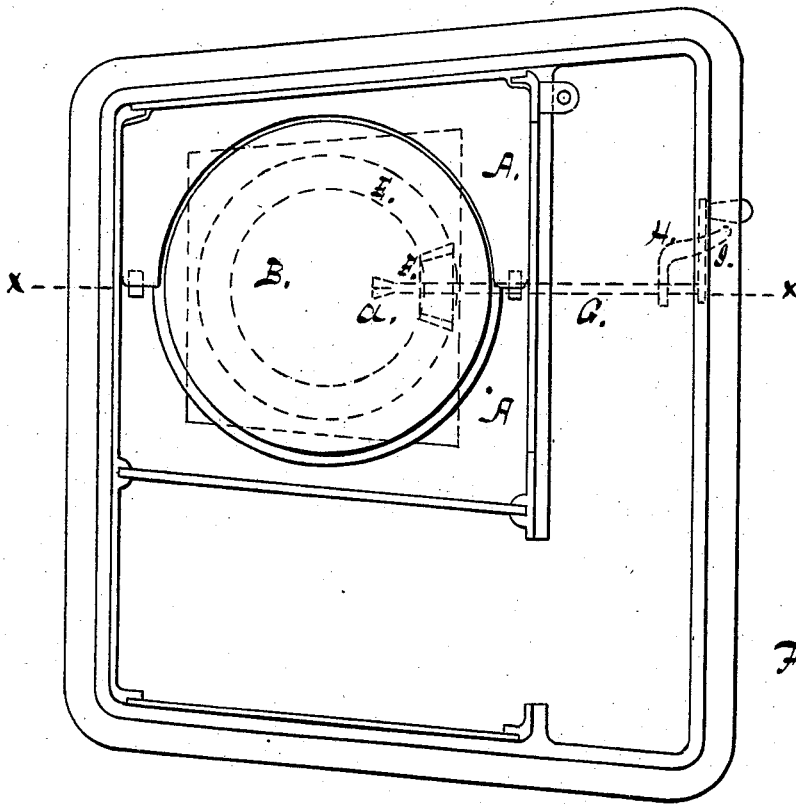


Fig. 1

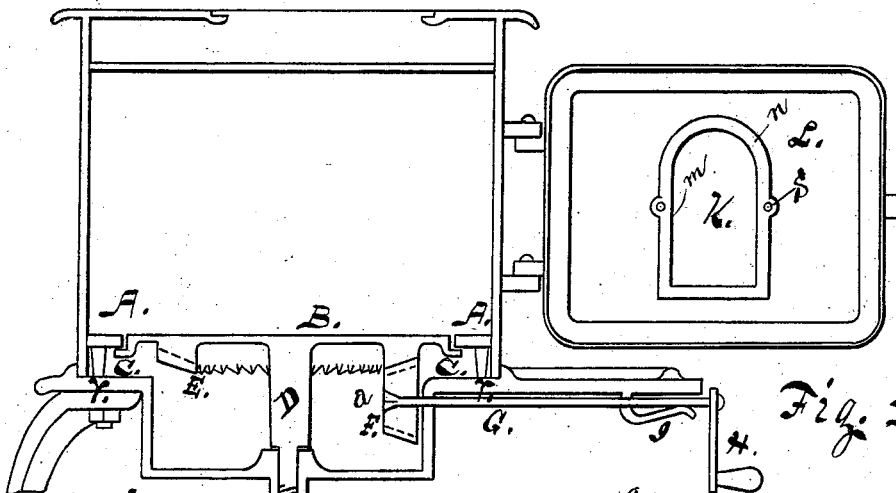


Fig. 2.

Witness
M. A. Howell
W. K. Kraemer

Inventor
James H. Powell
 By *Norace Harris*
 atty

UNITED STATES PATENT OFFICE.

JAMES H. POWELL, OF NEWARK, NEW JERSEY, ASSIGNOR OF ONE-HALF HIS RIGHT TO S. F. POWELL, OF SAME PLACE.

IMPROVEMENT IN STOVES.

Specification forming part of Letters Patent No. **209,982**, dated November 19, 1878; application filed April 13, 1878.

To all whom it may concern:

Be it known that I, JAMES H. POWELL, of Newark, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Stoves and Ranges, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a plan view, showing the top of an oven-bottom. Fig. 2 is a cross-section on the line *x x*.

The object of my invention is the improvement of the stove or range oven, by means of a revolving bottom and an illuminated door, allowing, in the one case, the food that is being baked to be turned around, and in the other to watch the progress of baking while the oven is kept closed.

The oven-bottom is made in three parts. The ends A form the frame or bed for the circular center B. This bed is made in two pieces, so that it may be taken out for cleaning out the chamber under the oven. These pieces rest upon a flange or rib in the sides of the oven, and where they come together and lap the edge of one over the other is a post, *r*, in front and rear.

The center is a circular plate, made with a flange, C, to extend under the edge of the bed-pieces. This center has a shaft, D, extending below, with a shoulder resting on the bottom of the stove, and a rod end passing through the bottom, and having a nut, *n*, on it under the stove, to keep it in position, but not made so tight but that it may be readily turned. The center has on the under side, a little way in from the periphery, a beveled gear, E, and fitted to work in that is a small beveled gear, F, hung on the rod G, and the recess outside of the gear on the center plate keeps the small gear in position. The rod has a square inner end, *a*, and slides in the gear F, the square end fitting into a square hole in the gear, so that by the crank H this gear may be revolved, which, in its action, revolves the center plate.

When not required for use, the rod is pushed inward, and the crank passes under the hearth, and catches on a support, I, attached to the hearth, and is out of the way.

By these simple devices the main part of the oven is made to revolve, as is desired, without opening the oven; and I also provide for seeing the contents of the oven and of judging how it should be turned and when taken out without opening the stove, by putting a piece of glass or mica, K, in the oven-door L, through which the light is admitted into the oven. This glass or mica is secured in an opening in the door, having a recess, *m*, in the inside, into which the glass is laid and secured in its place by a strip, *n*, of sheet metal, covering the edges, and secured to the door by the screws S.

I do not claim revolving an oven-grate, which I know has been done; but a revolving oven-bottom having the frame or sides of the revolving plate in two parts, and made removable, is believed to be novel.

I claim—

1. In a stove or range oven, the bottom made in three parts, the loose ends A, and the revolving center B, substantially as set forth.

2. The combination of the end pieces, A, and the revolving center B, having the bevel-gear E and the bevel-gear F, hung on the rod G, with the square end *a* and crank H to revolve the bed, substantially as specified.

3. In combination with a stove-oven having the bottom in three parts, the ends A A and the revolving center B, operated by the crank H, the oven-door L, having an aperture for the glass or mica plate K, with a recess, *m*, on the inside, in which the glass rests; and having the metallic strip *n*, covering the edges of the glass, and secured to the door by the screws S, substantially as set forth.

JAMES H. POWELL.

Witnesses:

HORACE HARRIS,
WM. A. HOWELL.