

J. A. LAWSON.
Oven Shelf.

No. 211,916.

Patented Feb. 4, 1879.

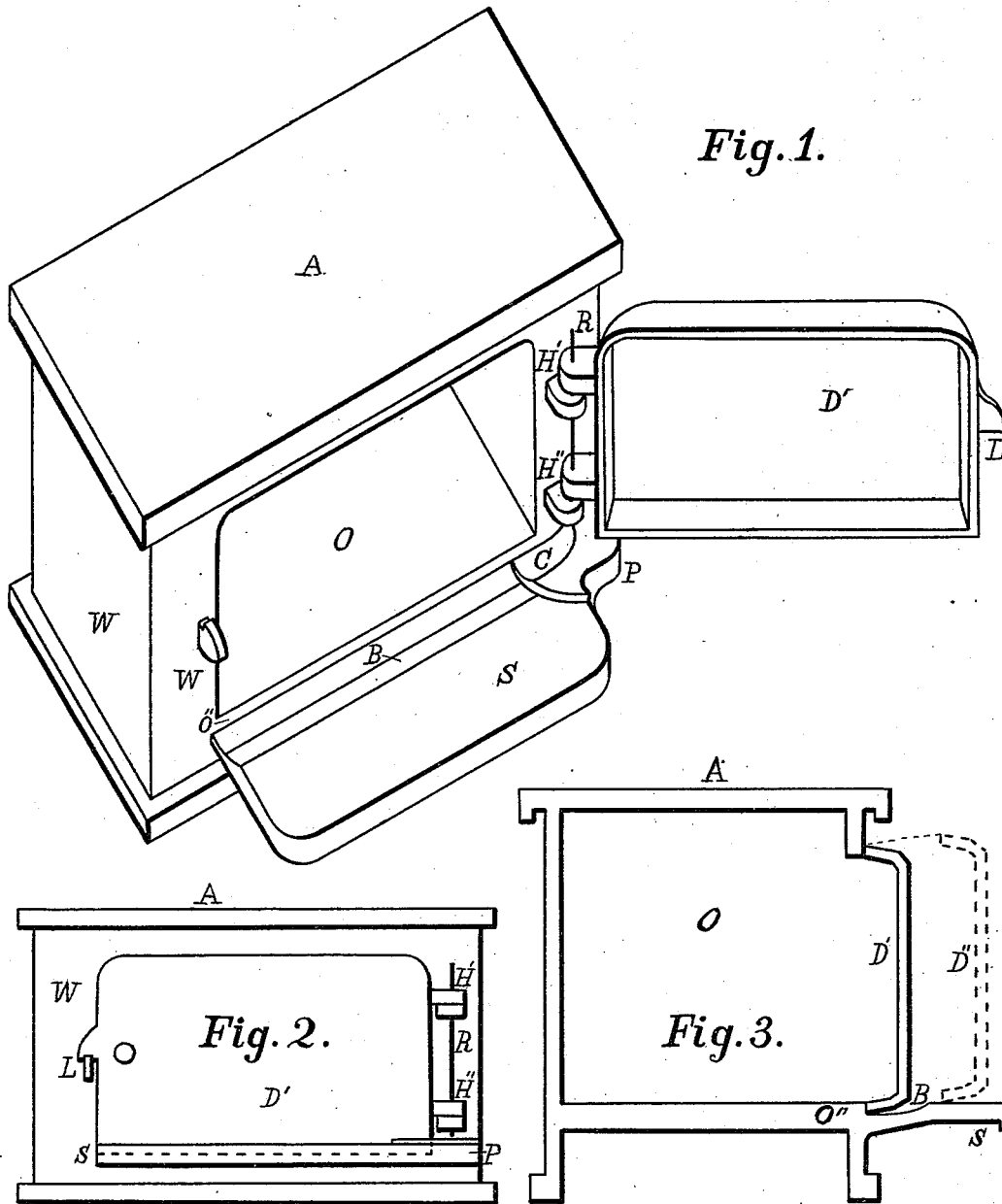


Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:

Charles S. Brintnall
Bernard Blais.

Inventor:

James A. Lawson
by W. E. Hagan
his Attorney

UNITED STATES PATENT OFFICE.

JAMES A. LAWSON, OF TROY, NEW YORK.

IMPROVEMENT IN OVEN-SHELVES.

Specification forming part of Letters Patent No. **211,916**, dated February 4, 1879; application filed May 29, 1878.

To all whom it may concern:

Be it known that I, JAMES A. LAWSON, of the city of Troy, county of Rensselaer and State of New York, have invented an Improvement in the Manner of Constructing and Arranging an Exterior Oven-Shelf, of which the following is a specification:

My invention relates to a manner of constructing and arranging an exterior oven-shelf upon a cooking-stove or range-wall, beneath the oven-door, and parallel to, or nearly parallel to, and in the same plane, or nearly the same plane, as the oven-bottom, the object of the invention being to furnish a shelf upon which vessels may rest when being partly drawn out of the oven to examine their contents, and to facilitate their being placed in or taken from it.

My invention consists in forming upon an exterior shelf that is supported from and attached to the stove-wall beneath the oven, and upon the top surface and inner edge of the shelf where it joins the stove-wall, a cut-away, beveled, or curved incline, and a beveled turn-plate for the door to rise upon by means of hinge-straps and hinging-rod when passing over the shelf to open, and over which it may descend in passing to close, and so as to furnish a striking-face for the door against the stove-wall beneath the oven, with the shelf arranged in the same plane, or nearly the same plane, as the oven-bottom.

In the accompanying drawings there are three illustrations of my invention, in all of which like letters are used to designate the same parts.

Figure 1 exhibits, in perspective, an oven and oven-door, with the latter opened, and as raised up over the shelf. It also shows the relative position of the shelf, its beveled edge, and where it joins the wall of the stove beneath the oven, so as to leave a striking-face for the oven-door above the shelf-edge. It also illustrates the position of the curved and beveled turn-plate, around and over which the door passes when being opened. It shows, also, the position of the hinge straps and rods, and the manner in which the former rise up on the latter when the door in opening is forced upward to pass over the shelf. Fig. 2 illustrates a front view of the oven door and

shelf, with the door as closed. Fig. 3 exhibits a vertical section taken through the oven, shelf, and oven-door, with the latter closed, its raised position, when opened, being indicated by a dotted line.

The various parts of the device and the parts with which it is connected in application are designated by letters of reference, as follows: A denotes the stove-top; O, the oven; S, the shelf; D', the oven-door; W W, the exterior walls of the oven; H' and H'', the hinge-straps, and R, the hinge-rod; L, the door-latch; O'', that portion of the stove-wall below the door, and furnishing a striking-face for the latter; B, the beveled edge of the shelf, and C P the inclined and curved turn-plate formed in the shelf near the hinge, around and over which the door moves when being opened and closed. D'' illustrates, by a dotted line, the raised position of the door when opened, with it projected upward by the bevel and turn-plate formed in the shelf.

The operation of the device is as follows: When the door-latch L is raised with the door D', the bottom of the latter engages the curved beveled surface B of the shelf S, and rises up over it, while the door-corner at the bottom near the hinge engages the curved and inclined turn-plate surface C P, over and around which the door swings to open, and the hinge-straps H' and H'' rise up on the rod R. When closing, the door, at its bottom, returns over and in contact with the bevel and turn-plate upon the shelf, so as to close against the striking-face of the wall below the oven. (Shown at O''). Thus an exterior oven-shelf may be employed that is in the same plane as the oven-bottom, for the convenience of drawing vessels from the oven upon it, and, at the same time, a closing and striking face is produced for the oven-door, as shown at O''.

While I have shown both the bevel and turn-plate as formed upon the shelf, the latter may be dispensed with, and the bevel alone employed to produce a similar result.

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

1. In a cooking stove or range, an exterior oven-shelf, arranged below the oven-door opening, in the same plane, or nearly the same

plane, as the oven-bottom, with a bevel formed upon the inner edge of the shelf where it joins the exterior oven-wall, and arranged so that a hinged oven-door, when opening, will rise up on the bevel to pass over the shelf, and when closing return over it, in the manner substantially as herein shown and described.

2. In a cooking stove or range, the exterior oven-shelf S, having its beveled edge B and turn-plate C P arranged to engage the under surface of the oven-door, by means of which the latter will rise from its striking-face upon the stove-wall below the oven in passing over the shelf to open, and descend to close the oven, substantially as herein shown and described.

3. In a cooking stove or range, the exterior oven-shelf S, constructed with the beveled edge B and turn-plate C P, and the oven-door D', having its hinge-straps H' H'' arranged to rise and fall upon the hinging-rod R, so that the door may rise from the bevel and pass over the shelf to open, and descend into the bevel to close against the striking-face of the stove-wall O'' below the oven, substantially as shown and described.

Signed at Troy this 13th day of March, 1878.

JAMES A. LAWSON.

Witnesses:

AARON C. ANTHONY,
M. H. HORAN.