

No. 663,286.

Patented Dec. 4, 1900.

E. C. MACARTNEY.  
OVEN SHELF.

(Application filed Aug. 13, 1900.)

(No Model.)

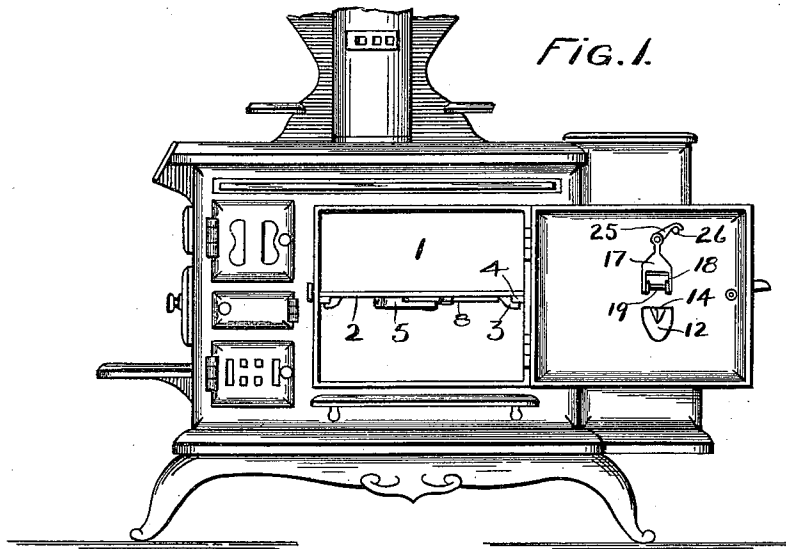


FIG. 2.

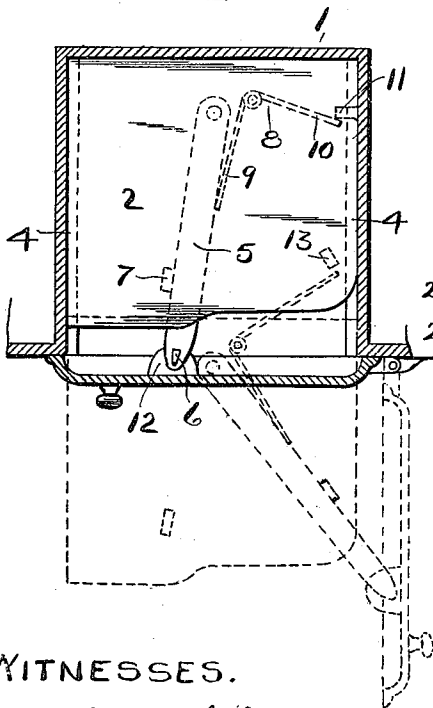


FIG. 3.



FIG. 4.

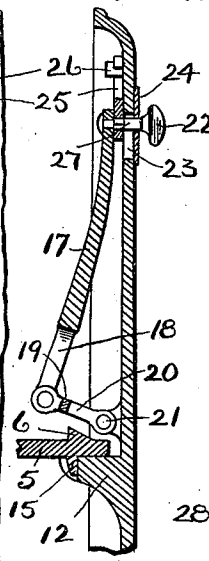
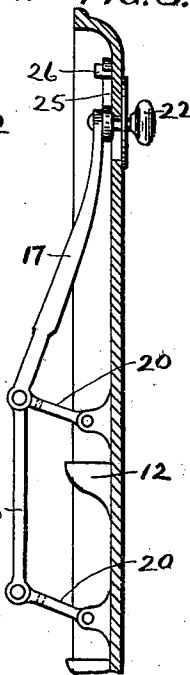


FIG. 5.



WITNESSES.

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# UNITED STATES PATENT OFFICE.

EDMUND C. MACARTNEY, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR  
TO HIMSELF AND PEMBROKE D. HARTON, OF SAME PLACE.

## OVEN-SHELF.

SPECIFICATION forming part of Letters Patent No. 663,286, dated December 4, 1900.

Application filed August 13, 1900. Serial No. 26,697. (No model.)

*To all whom it may concern:*

Be it known that I, EDMUND C. MACARTNEY, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Ovens for Stoves and Ranges, of which the following is a specification.

My invention relates to ovens for stoves and ranges, and has for one object to provide an attachment for ovens whereby in the act of opening the door the shelf or shelves may be pulled out in order to permit of visual inspection of the article of food being cooked and also for convenience of turning the receptacle in which the article is being cooked or for the purpose of seasoning or basting, the attachment being adapted to be conveniently attached to or detached from the shelf, so that the shelf may be drawn out by the opening of the door, or the shelf may remain intact as the door is opened, at the will of the operator.

A further object is to provide an attachment supported when withdrawn to its utmost limit by reason of the free end of the bar resting upon a projection upon the oven-door.

A further object is to provide an attachment of this character adaptable for all forms of ovens, with provision for operating a plurality of shelves, and that shall be inexpensive of construction, as well as positive in operation.

In the drawings, Figure 1 is a side elevation of a stove, showing the oven-door open to disclose the shelf in position and with the catch upon the door. Fig. 2 is a horizontal section of the oven, showing the shelf in full lines, the shelf in normal position, and the door closed, and in dotted lines the door opened and the shelf withdrawn. Fig. 3 is a sectional elevation, in front view, of a portion of oven-door with the catch elevated. Fig. 4 is an elevation of a section of oven-door, the catch being shown partly in section and in position to be lowered to engage with the pull-bar, a portion of the bar being shown in position for engagement with the catch when lowered. Fig. 5 is an elevation of a section

of oven-door, showing a plurality of catches secured thereon for coaction with a plurality of shelves.

Pivotally secured upon the under side of the shelf is a draw-bar 5, the free end of which projects slightly beyond the outer side of the shelf and is provided with an upwardly-projecting lug 6 near its end. Shelf 2 is formed with a stop 7, against which the draw-bar 5 is urged by means of a spring or angled bar 8, secured upon shelf 2, one arm 9 of which bears against the bar, the opposite arm 10 bearing against a lug 11 upon the side of the oven, this arrangement causing the free end of the bar to normally register with a rest 12 upon the oven-door when the door is closed, there being a stop 13 upon the shelf to limit the radial movement of the bar as the door is opened. Rest 12 is preferably formed with a V-shaped recess 14, into which a lug 15 upon bar 5 enters and abuts against the rear wall 16 in order to push the shelf to its normal position when the door is being closed.

The shelf is withdrawn from its normal position within the oven by means of a catch arranged upon the door and which comprises a plate 17, slightly angled, so that its upper end is parallel with the inner face of the oven-door, with the lower end projecting slightly from a parallel relation with the door, and is formed at its lower end with two depending arms 18, perforated transversely to receive a rod 19, which also passes through the outer ends of links 20, the inner ends of links 20 being pivotally secured to the door, as at 21. Plate 17 is raised and lowered by means of a knob 22, the stem of which moves in a slot 23 in the oven-door and is secured to the plate, the slot in the door being covered by a plate or escutcheon 24 upon the knob. By this arrangement it will be understood that when the knob 22 is released, carrying with it the plate, the rod 19 engages with the projection 6 upon bar 5 and is in position to draw the shelf into the position shown in dotted lines, Fig. 2, as the door is opened and that upon raising the knob the plate is raised to disengage the rod 19 from the catch and permit the door to be opened without with-

drawing the shelf. The knob 22 is held in a raised position when desired by means of a hook 25, when the hook is engaged with a projection 26 upon the oven-door, the stem of the knob being squared to enter a rectangular opening 27 in the hook, and upon turning the knob the hook is disengaged from projection 26 and the plate is at liberty to fall by gravity for engagement with the bar.

10 In Fig. 5 is shown a modification of the catch for adaptation to ovens having a plurality of shelves in which is employed a plurality of catches, or rather rods, 19 for engagement with the draw-bar, the additional rod or rods 19  
15 being suspended in proper position by hangers 28.

From the foregoing description, taken in connection with the drawings, the operation will be apparent. The oven-door being closed, 20 the end of the draw-bar normally rests upon rest 12 and the hook 25 is engaged with projection 26. The oven-door may be opened without affecting the position of the shelf. If, however, it is desired to pull the shelf partially out of the oven in order to place a culinary article thereon or to attend to an article being cooked, knob 22 is turned to disengage hook 25 from projection 26 and the catch falls by its own weight to cause rod 19  
25 to engage with lug 6 upon the bar 5, and the act of opening the door pulls the shelf out, the closing of the door returning the shelf to its proper position.

35 I consider the feature of resting the end of the bar 5 upon rest 12 of great value, as it supports the weight of the shelf and in coac-

tion with keepers 3 always sustains the shelf in a horizontal position.

If desired, the lug 6 may be removable in case there are a plurality of shelves, so that 40 but one shelf is pulled out upon opening the door.

What I claim is—

1. In an oven having ledges upon each side, a shelf resting upon the ledges, and formed 45 with keepers to engage with the under side of the ledges, a bar pivotally secured upon the shelf having a projection upon its free end at the under side, a rest upon the oven-door against which the projection abuts, and 50 an upper face upon which the bar rests, a projection upon the upper side of the bar and a vertically-movable catch upon the oven-door engaging the projection, and means for urging the free end of the bar into coincidence 55 with the catch.

2. In an oven, a shelf, a pivoted bar projecting therefrom a catch upon the oven-door comprising a vertically-movable plate a knob 60 movable vertically within the door and connected with the plate a hook connected with the knob, a projection upon the door with which the hook engages when the knob is turned, and a projection upon the bar with which the plate engages when the knob is 65 turned in an opposite direction.

In testimony whereof I affix my signature in presence of two witnesses.

EDMUND C. MACARTNEY.

Witnesses:

E. V. M. BRENNAN,  
WILLIAM WEBSTER.