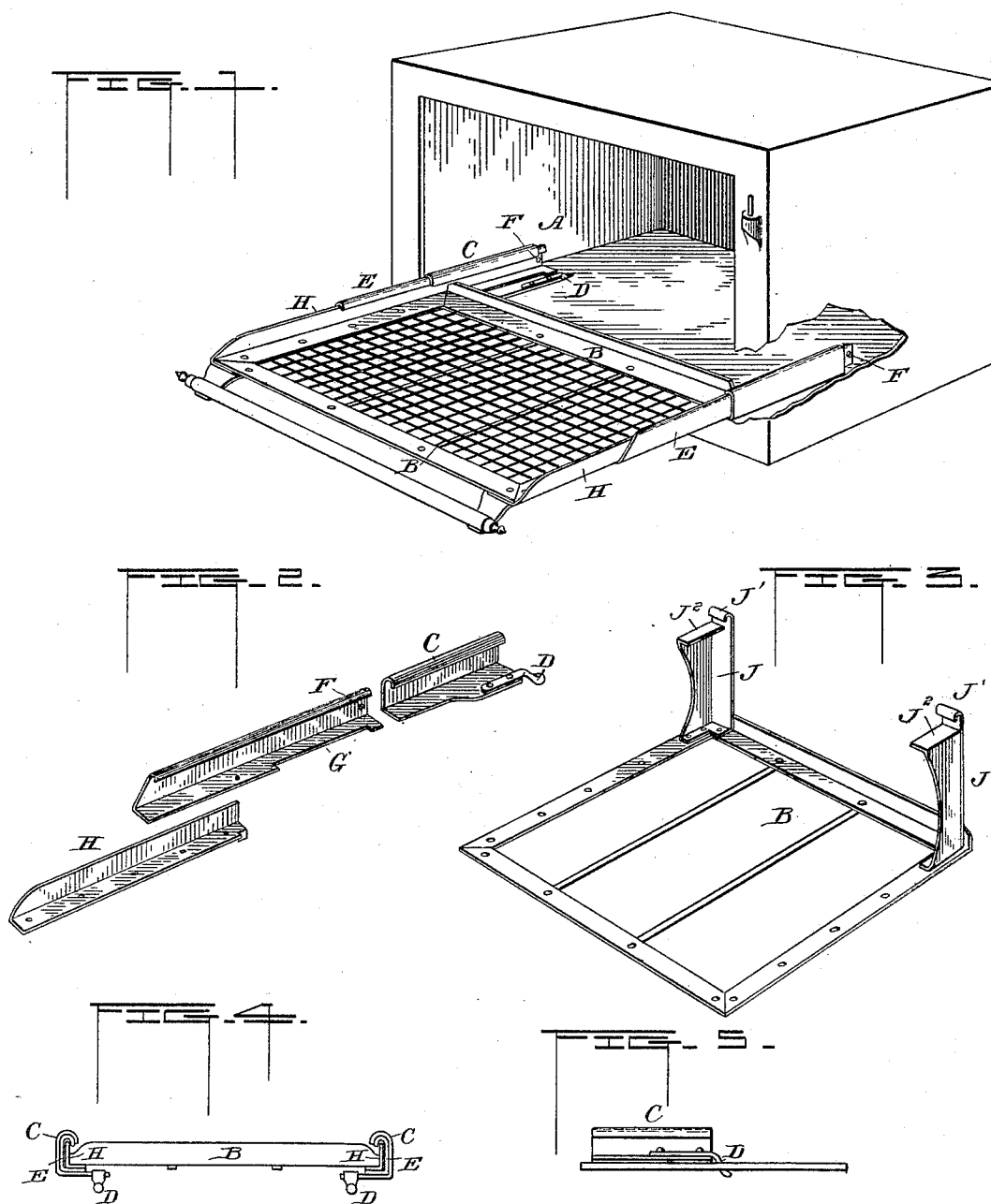


(No Model.)

J. H. ALLYN.  
OVEN GRATE.

No. 434,970.

Patented Aug. 26, 1890.



WITNESSES

*L. A. Connor Jr.*  
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# UNITED STATES PATENT OFFICE.

JOHN H. ALLYN, OF WHITESBOROUGH, NEW YORK, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE EUREKA OVEN SLIDE WORKS, (LIMITED,) OF SAME PLACE.

## OVEN-GRATE.

SPECIFICATION forming part of Letters Patent No. 434,970, dated August 26, 1890.

Application filed November 9, 1887. Serial No. 254,714. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN H. ALLYN, a citizen of the United States, residing at Whitesborough, in the county of Oneida and State of New York, have invented a new and useful Improvement in Grates for the Oven and Warming-Closet of a Range or Stove, of which the following is a specification.

My invention relates to improvements in extensible shelves or grates for the oven and warming closet of ranges and stoves.

It has for its object to provide devices which will securely locate, guide, and support such shelves; and it consists in the matters hereinafter specified and pointed out.

In the accompanying drawings, Figure 1 is a perspective view of the oven of a range or stove with the door removed and a corner cut away, and of a shelf or grate with its guides, lugs, slides, and sides attached to the floor of an oven and drawn out. Fig. 2 is a perspective view of a guide, a lug, a slide provided with a stop and recess and side provided with stops, the guide, slide, and side being shown disconnected. Fig. 3 is a perspective view of a shelf-frame having corner-pieces attached. Fig. 4 is an elevation of the inner ends of the guides, lugs, slides, sides, and back of the shelf or grate, and Fig. 5 is a side elevation of a guide, lug, and floor of a range or stove.

The oven A contains the shelf B, consisting of a frame provided with a grating or network of wire. It is or may be provided at its back corners with angled pieces J, the lower ends of which are fastened to the sides and back of the shelf, the back parts J' of the upper ends being folded over to receive and hold the edge of an upper shelf (indicated by dotted lines) and the front upper parts J<sup>2</sup> turned down at right angles to support an upper shelf in a horizontal position when required.

The guides C consist of angled strips of metal extending from the front corners to about the center of the sides of the floor of the oven, and the upper edges of their upright parts are folded over, forming grooves to receive the slides E. The horizontal parts of these constitute ways for the horizontal

parts of the slides E, and the inner ends of the guides C are held in position by lugs D entering holes in the floor of the oven.

The slides E consist of angled strips of metal, which extend from the front nearly to the back of the oven. Their upright parts are folded over, forming grooves for the edges of the upright parts of the sides H, and their horizontal parts constitute ways for the horizontal parts of said sides, and are provided with stops F and recesses G for controlling and limiting their movement. These stops project to the outer side of the slides and are adapted to engage the inner ends of the guides. The sides H also consist of angled strips of metal and extend from the front to the back corners of the grate or shelf, the edges of the upright parts being adapted to move in the grooves of the slides E, and their horizontal parts being provided with stops I on their under side. They move on the slides E, their movement being controlled or limited by the stops I, formed on or attached to sides H, and adapted to engage the ends of the recesses G. The sides H may be constructed to hold the shelf at any desired height above the floor of the oven.

The lugs D consist of pieces of metal having each an end bent and fastened to the guides C, substantially as shown. The bent ends are adapted to enter holes suitably located in the floor of the oven.

The shelf B, together with the slides E and the guides C, may be placed in position in the oven by elevating the front of the shelf to an angle of about forty degrees, thereby allowing the lugs D to enter the holes in the floor of the oven, and then lowering the grate to a horizontal position. The shelf slides and guides may be readily removed upon raising the front ends sufficiently. The shelf B, when drawn nearly out is sustained horizontally in a plane above and parallel with the floor of the oven A by the slides E and guides C. The front ends of the slides extend out to about the center of the sides H, and are prevented from leaving them and losing the support of the guides C by the stops F coming in contact with the inner ends of the guides

C. The sides H and the shelf are prevented from leaving the oven and losing the support of the slides E by the stops I coming in contact with the front ends of the recesses G.

5 When returning the shelf into the oven, the stops I come in contact with the inner ends of the recesses G and return the slides E.

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

10 1. In combination with an oven having a floor provided with openings, guides having bent projections adapted to be entered in said openings, slides held movably in said guides, and a shelf movably supported in said slides,  
15 substantially as set forth.

2. In combination, an oven, guides removably secured to a wall of the oven, slides

adapted to move in the guides and provided with stops adapted to engage the guides, and a shelf having sides held movably in the slides, 20 substantially as set forth.

3. The main shelf provided with corner-pieces of angular form in cross-section, the top of one side of each piece being bent inwardly to sustain a supplementary shelf, and 25 the top of the other sides being similarly bent in a higher plane to embrace the top of the shelf combined with said supplementary shelf, substantially as set forth.

JOHN H. ALLYN.

Witnesses:

HAMMOND P. EVANS,  
A. H. WHITE.