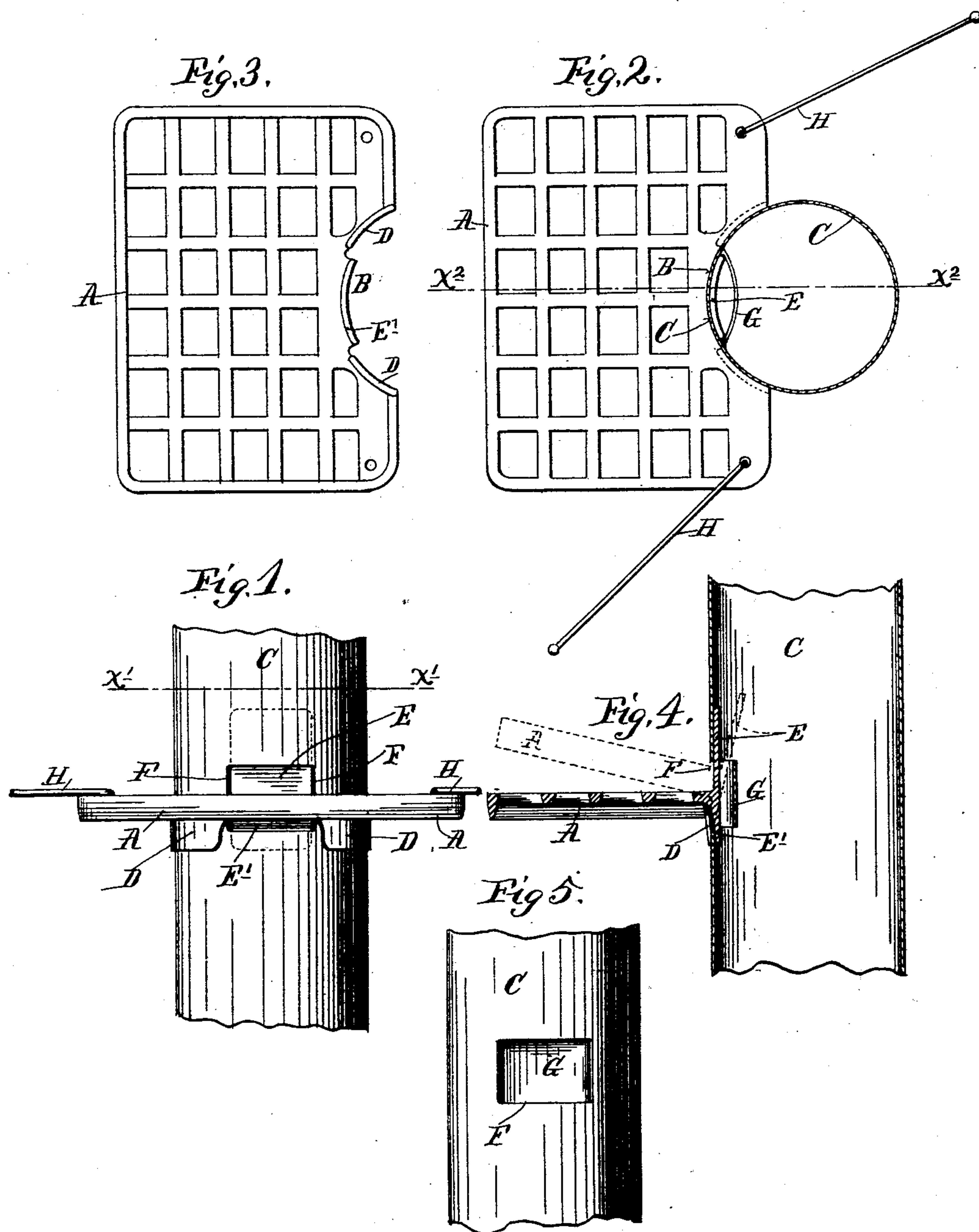


(No Model.)

**J. ALLINGHAM.**  
**STOVEPIPE SHELF.**

No. 541,412.

Patented June 18, 1895.



Witnesses.

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# UNITED STATES PATENT OFFICE.

JAMES ALLINGHAM, OF MINNEAPOLIS, MINNESOTA.

## STOVEPIPE-SHELF.

SPECIFICATION forming part of Letters Patent No. 541,412, dated June 18, 1895.

Application filed July 30, 1894. Serial No. 518,938. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES ALLINGHAM, a citizen of the United States, residing in the city of Minneapolis, in the county of Hennepin and State of Minnesota, have invented a certain new and useful Improvement in Stovepipe-Shelves, of which the following is a specification.

My invention relates to an improvement in stove pipe shelves, the object of which is to provide a shelf, or bracket, with simple and efficient means of securing the same to the pipes or to casings of stoves.

To this end my invention consists in certain novel features, which will be hereinafter described and especially defined in the claims.

Referring to the drawings, in which like letters indicate like parts, Figure 1 is a front elevation of the device in accordance with my invention. Fig. 2 is a horizontal section on the line  $x'x'$ ; Fig. 3, a bottom plan view of the device removed from the pipe; Fig. 4, a vertical section on the line  $x^2x^2$ , Fig. 2; Fig. 5, a front elevation of a section of pipe, showing the opening therein when the shelf is removed.

A, is a shelf which may be of any desired shape or size, and of any desired material, made in one piece or in separate parts, and joined together in any desired manner.

One side may be arranged concave as shown at B, Figs. 1 and 2, so as to fit snugly against the outer surface of any desired pipe or circle, as shown at C.

Extending downward from the shelf A, are flanges D, which also conform to the circle of the pipe C, and serve as braces to more securely support the shelf in position on the pipe by operating in conjunction with the cross-section E. Said cross-section may be arranged between said braces and extends above and below and at right angles from the shelf. Said cross-section may be curved as shown in Figs. 2 and 3, so as to fit closely against the inner surface of the pipe. A small portion of said cross-section may extend below the shelf as shown at E', Figs. 1 and 4. By this construction of the cross-section E, the opening F, may be of less width, and the long part of the cross-section will farther overlap the upper wall when the shelf is in position at the lowest part of the opening, it being understood that the farther the cross-section

overlaps the upper wall, the more firm the shelf will be held in position.

Opening F, is preferably made by cutting two slots across the pipe, as long as the cross-section is wide, and at the desired distance apart, and the piece G, between said slots is forced back into the cavity, and serves as a brace to the cross-section; or the piece G, may be entirely removed.

On flat casings, or surfaces, braces D, may be located at or near the center of the shelf, and a cross-section on each end of the shelf.

Suitable towel-rods, H, may be adjustably arranged on the shelf, and when used for towel-rod exclusively, only a part of the shelf may be used and the same used to support a desired number of rods, it being understood that the device is intended for a towel rack as well as a shelf or bracket.

Having described my invention, the operation is as follows: First, place the upper or longest part of the cross-section E, through the opening in the pipe C, holding the shelf on an angle as shown by dotted lines, Fig. 4, and at the highest point of the opening. Then bring the shelf to a horizontal position and at right angles from the pipe. In this position the short portion of the cross-section, E' will clear the lower wall of the opening, and will also pass in through the opening in the pipe. Then press the shelf down to the bottom of the opening, and the cross-section E will fit closely against the inner walls of the pipe, the upper or long part overlapping and impinging the inner wall above the opening, and the lower or short part, E', overlapping and impinging the inner wall below said opening, thereby firmly securing the shelf in position, and effectually closing the said opening in the pipe.

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

1. As a new article of manufacture, the shelf A, having the cross-section E, extending both above and below the shelf the faces of said cross section that are adjacent to the shelf being in about the same plane, for engagement with the inner walls of the slotted pipe, substantially as and for the purpose set forth.

2. As a new article of manufacture, the shelf A, having the cross-section E, extending both above and below the shelf, for engagement with the inner walls of the slotted pipe,



and flanges D, for bracing the shelf, substantially as and for the purpose set forth.

3. The pipe C, having the opening F, in combination with the shelf A, having the cross-section E, overlapping and impinging the inner walls of said pipe, both above and below said opening, substantially as and for the purpose set forth.

4. The pipe C, having the opening F, in combination with the shelf A, having flanges D, and a cross-section E, overlapping and impinging the inner walls of said pipe, both above and below said opening, substantially as and for the purpose set forth.

5. The pipe C, having the opening F, with

the piece G, in the cavity, in combination with the shelf A, having the cross-section E, overlapping and impinging the inner walls, substantially as and for the purpose described.

6. The pipe C, having the opening F, with the piece G, in the cavity, in combination with the shelf A, having flanges D, and the cross-section E, substantially as and for the purpose set forth.

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

JAMES ALLINGHAM.

Witnesses:

H. J. ALLINGHAM,

OLIVE ALLINGHAM.