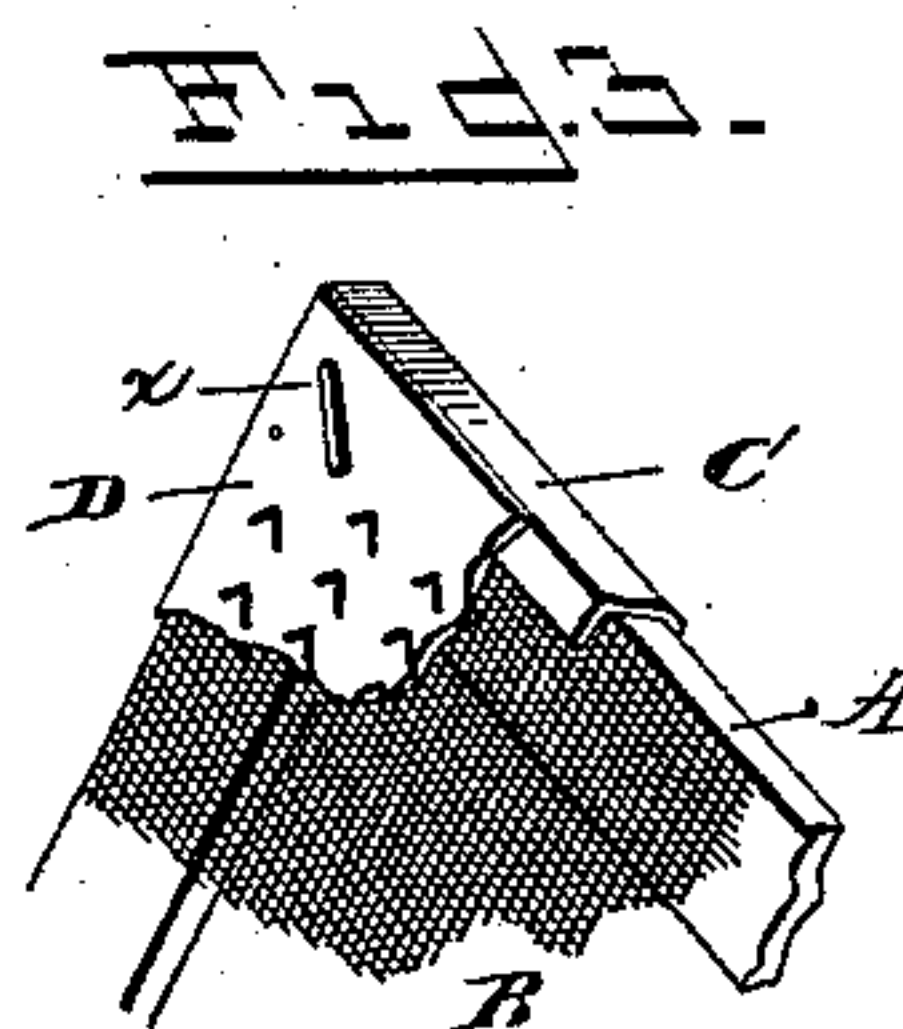
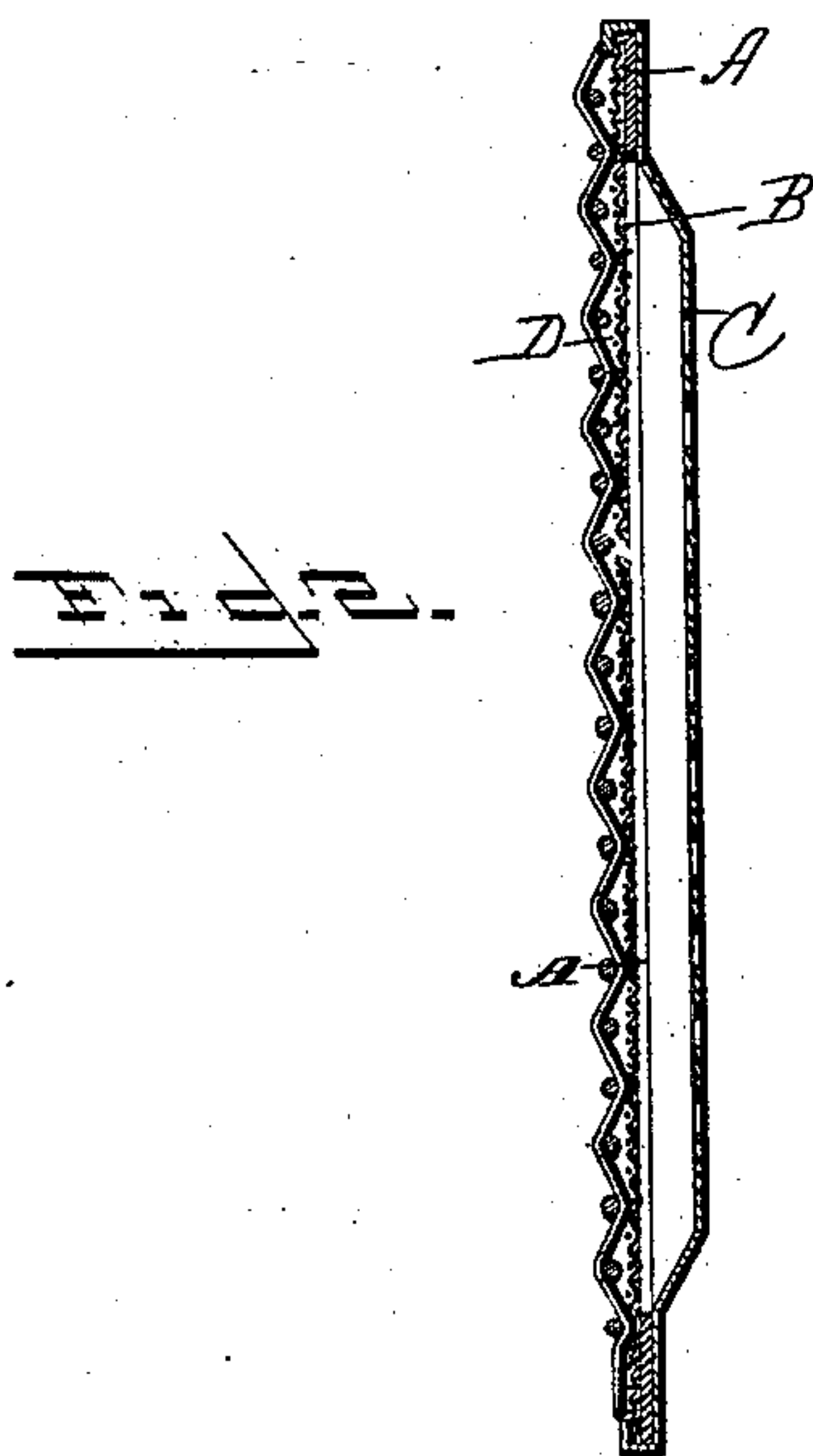
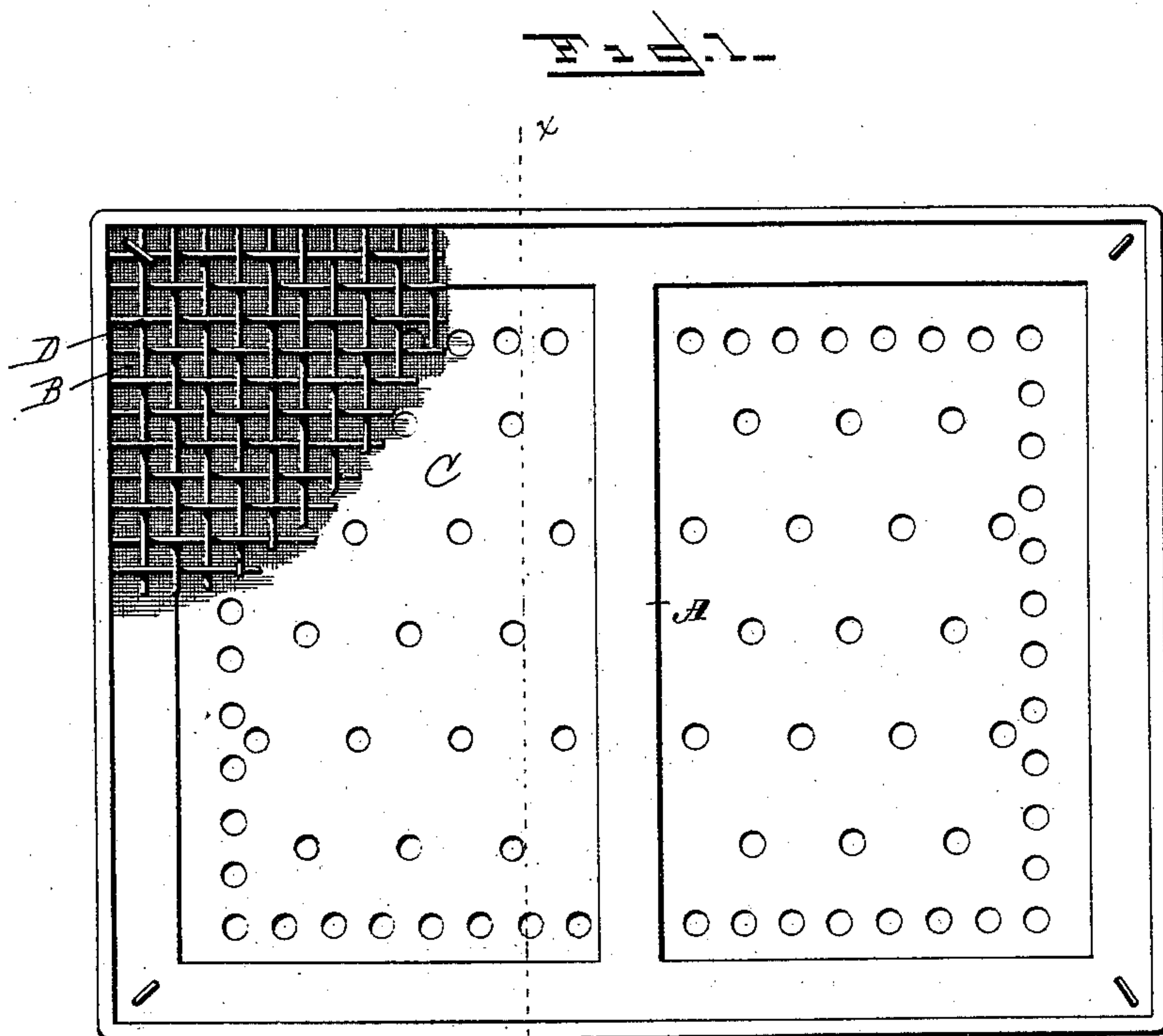


(No Model.)

W. J. WOOD.
OVEN DOOR.

No. 417,530.

Patented Dec. 17, 1889.



WITNESSES

G. S. Elliott.
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INVENTOR

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Attorney

UNITED STATES PATENT OFFICE.

WALTER J. WOOD, OF ATLANTA, GEORGIA.

OVEN-DOOR.

SPECIFICATION forming part of Letters Patent No. 417,530, dated December 17, 1889.

Application filed January 2, 1889. Serial No. 295,158. (No model.)

To all whom it may concern:

Be it known that I, WALTER J. WOOD, a citizen of the United States of America, residing at Atlanta, in the county of Fulton and State of Georgia, have invented certain new and useful Improvements in Oven-Doors; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in oven-doors.

The invention is adapted to be applied to oven-doors of that character which are made up of a frame which supports or has attached thereto a wire-gauze screen; and my invention consists in providing such an oven-door with a rigid foraminous plate, which will protect the wire-gauze from injury.

My invention consists, further, in the combination, with an oven-door having a wire-gauze or woven metallic-screen, of a shield attached to said door to cover the gauze screen and protect the same from injury, as will be hereinafter fully set forth.

In the accompanying drawings, Figure 1 is a side view showing an oven-door with my improvement applied thereto. Fig. 2 is a sectional view, and Fig. 3 is a detail perspective view showing the employment of a foraminous plate in lieu of an outer shield of screen material.

A refers to the frame of the door, which is of ordinary construction, and to which is suitably attached a plate or sheet B of wire-gauze having a very fine mesh, but not so closely woven as to prevent the free passage of air through it. The outer portion of the door is formed of a sheet C of metal having perforations, which with the frame gives the required rigidity to the door and protects the screen from injury.

To the inner side of the door-frame and against or adjacent to the wire screen B, with fine or minute openings, is an exterior shield D, which may be made up of heavier woven wire with larger mesh, or of a plate of metal having perforations, slits, or openings, and which is secured in position upon the main frame by having openings engaging hooks *x*, located at each of the several corners thereof. This inner perforated shield is of sufficient rigidity to withstand any blows or pressure which may come against the same, as articles used about the stove or pans and cooking implements placed within the oven.

Oven-doors with fine wire screens possess certain well-known advantages over the ordinary solid doors; but these advantages become entirely lost should the screen by any means become injured by having openings larger than the mesh formed therein.

I do not wish to limit myself to any particular form of protecting-plate or wire-gauze, as the essential features of said plate are only that it should be of sufficient rigidity to protect the wire-gauze and permit free access of air through the same.

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

The combination, in an oven-door, of a skeleton or open frame having projections on its outer face, a section of wire-gauze located upon the outer side of said frame, a section of foraminous material arranged parallel with said gauze and engaging said projections, and a rigid perforated plate arranged on the outer side, and having its edges bent to embrace said frame and secure the gauze section in position, substantially as set forth.

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

WALTER J. WOOD.

Witnesses:

A. B. WARREN,
H. S. LOVEJOY.