

No. 736,295.

PATENTED AUG. 11, 1903.

E. A. C. PETERSEN.

OVEN DOOR.

APPLICATION FILED MAR. 12, 1903.

NO MODEL.

2 SHEETS—SHEET 1.

Fig. I.

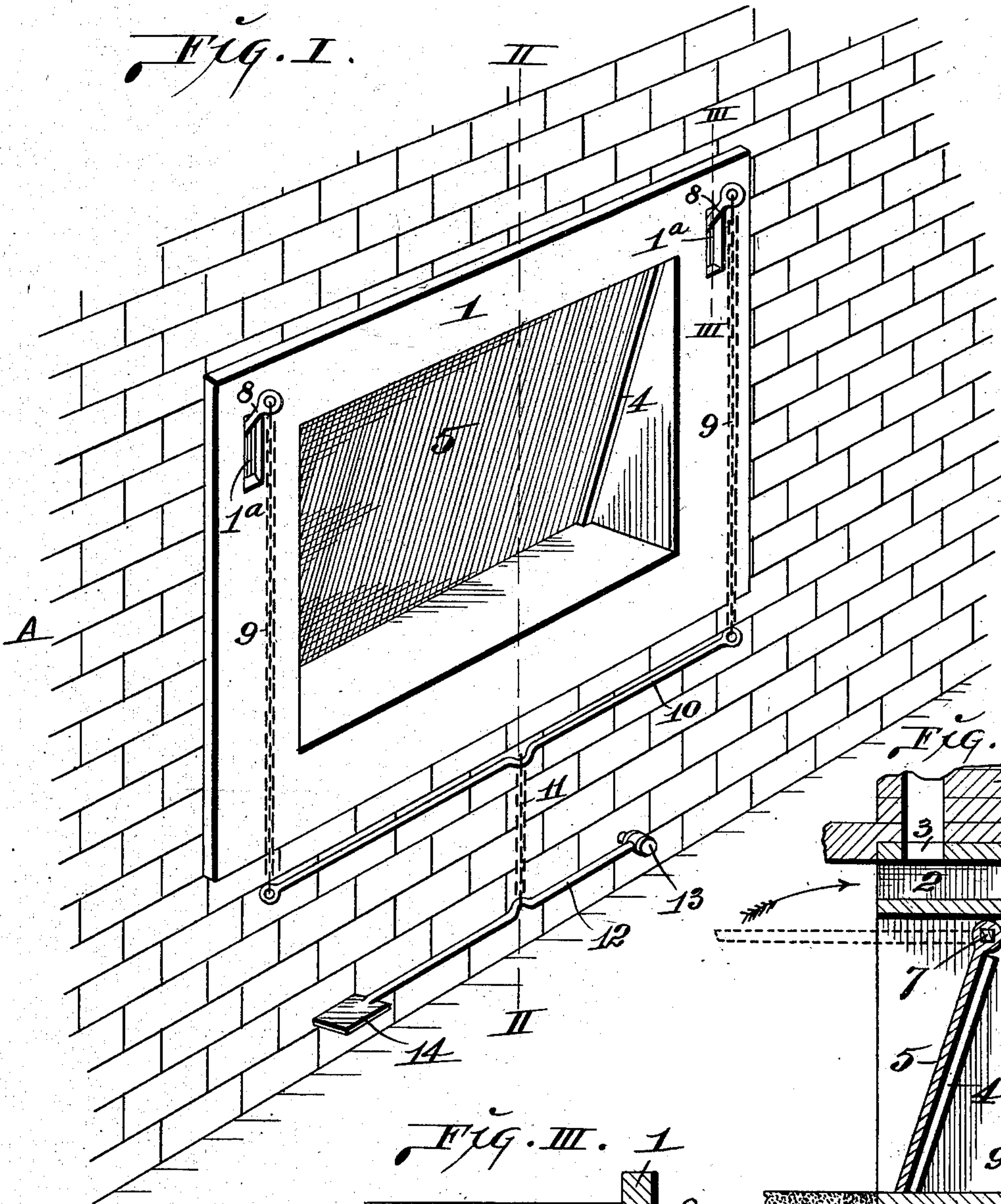


Fig. II.

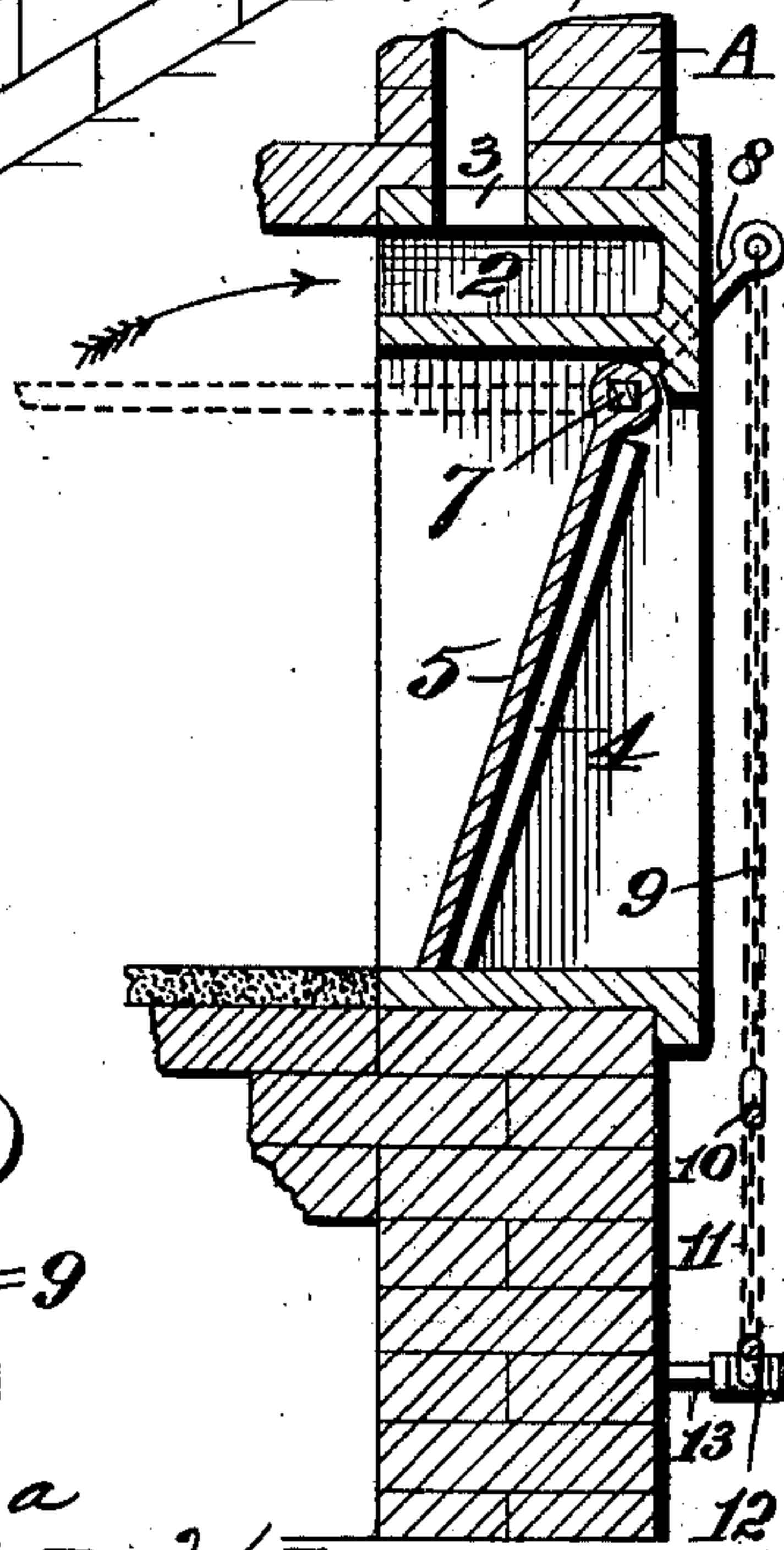
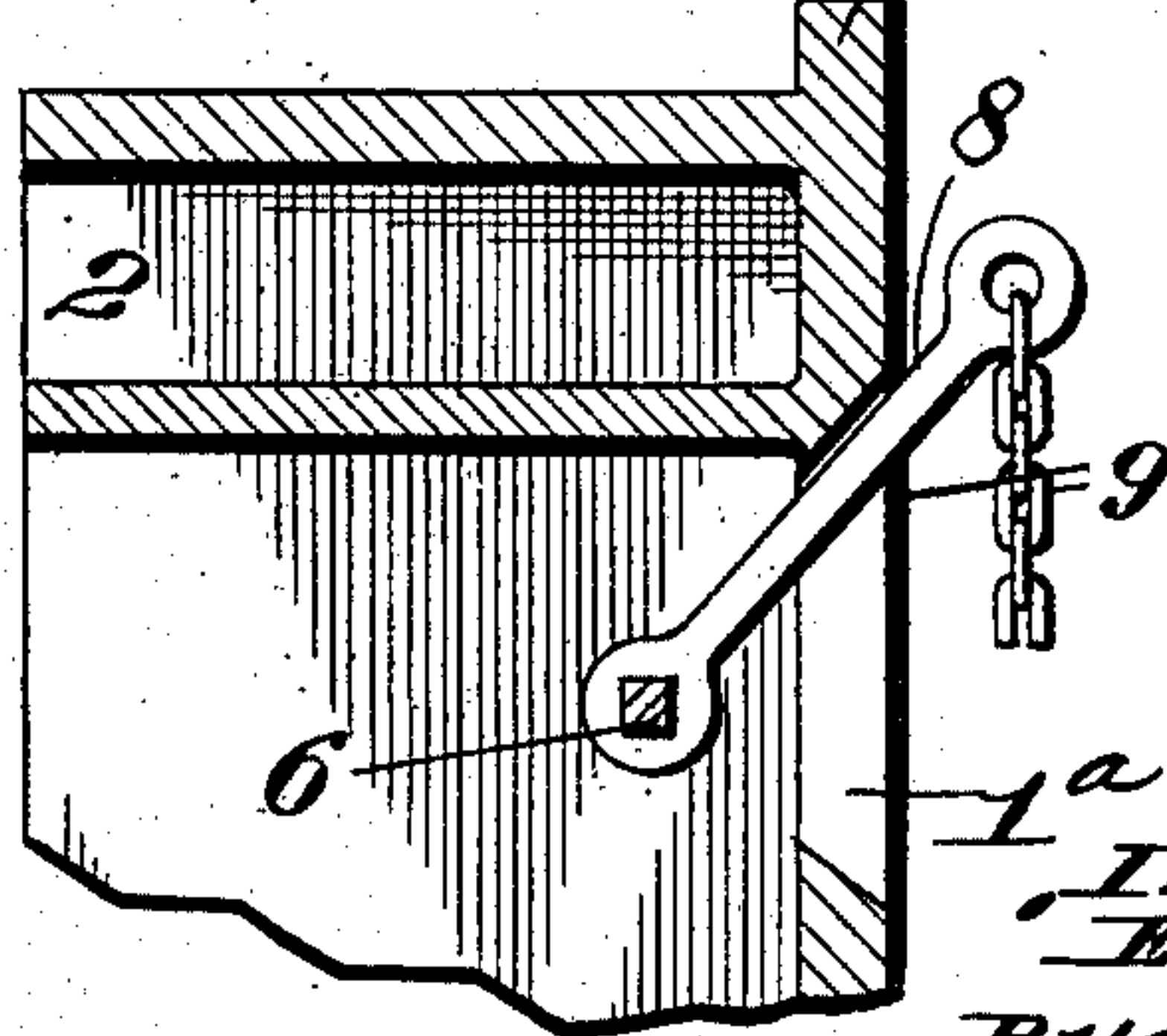


Fig. III.



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2 SHEETS—SHEET 2.

Fig. IV.

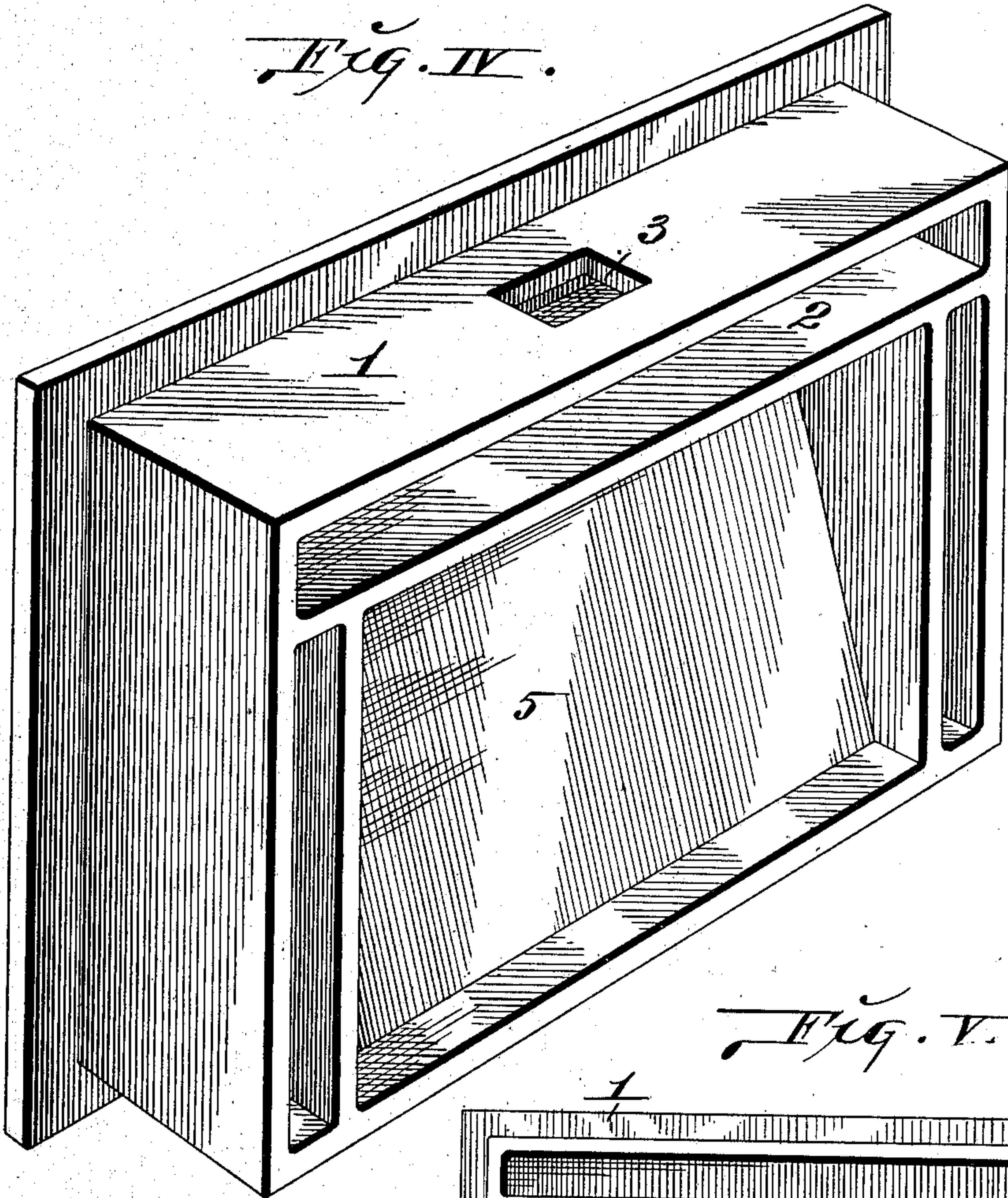
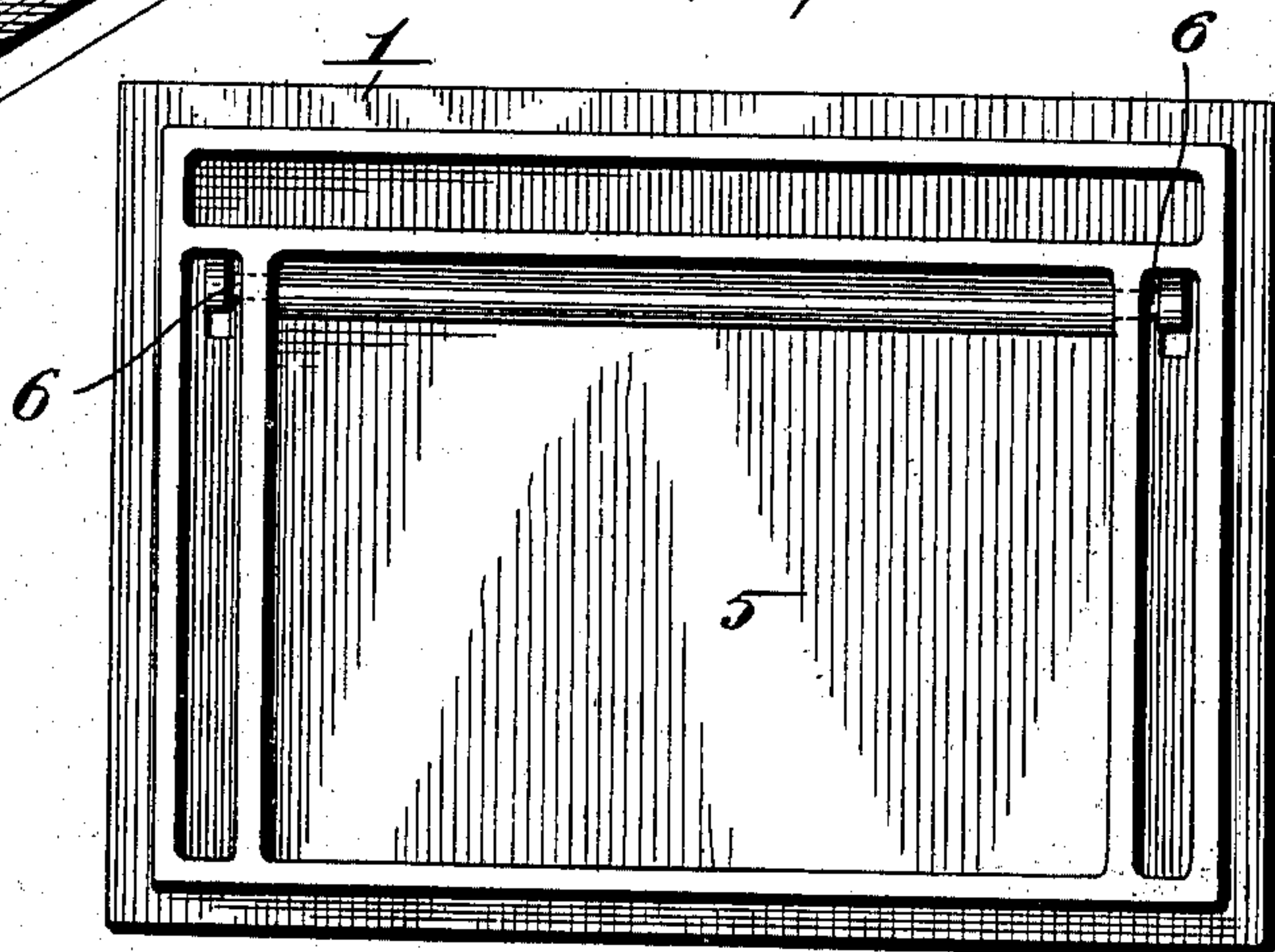


Fig. V.



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UNITED STATES PATENT OFFICE.

EDWARD A. C. PETERSEN, OF CHICAGO, ILLINOIS.

OVEN-DOOR.

SPECIFICATION forming part of Letters Patent No. 736,295, dated August 11, 1903.

Application filed March 12, 1903. Serial No. 147,468. (No model.)

To all whom it may concern:

Be it known that I, EDWARD A. C. PETERSEN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Oven-Doors, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a door for controlling the entrance way into bakers' ovens, the improvement, briefly stated, consisting in a swingingly-suspended door and means whereby the door may be swung into open condition through the medium of a foot-pedal connected to the door.

The invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a perspective view of the front of a baker's oven with my door situated therein. Fig. II is a vertical section of the oven front and door, taken on line II II, Fig. I. Fig. III is a vertical section of a portion of the door, taken on line III III, Fig. I. Fig. IV is a perspective view of the rear of the door. Fig. V is a rear elevation of the door.

A designates the oven front wall, provided with a doorway above which is an escape-flue B, located in the front wall.

1 designates the door-frame, located in the oven-wall A and provided with a door-opening above which is a steam-receiving chamber 2, open to communication with the interior of the oven and having communication with the escape-flue B through an orifice 3 in the top of the door-frame.

4 designates stops projecting from the side walls of the door-frame into the opening occupied by the door therein.

5 designates a door that rests against the stops 4 when in closed position. The door is swingingly supported by trunnions 6, (see Figs. III and V,) the trunnions being, preferably, carried by a rock-shaft 7. (See Fig. II.)

8 designates arms connected to the trun-

nions 6 and projecting through slots 1^a in the end portions of the door-frame 1. These arms 8 have connected to them chains 9, that are suspended therefrom.

10 is a bar the ends of which are connected to the chains 9, as seen in Fig. I. Suspended from the bar 10 is a chain 11, that leads to a pedal-rod 12, that is pivotally mounted at 13 at one end and bears at its free end a foot-piece 14.

In the use of my door the operator has only to place his foot upon the foot-piece 14 of the pedal-rod and by a downward pressure thereon exert a pull upon the bar 10 and chains 9. When this is done, the arms 8, connected to the door-trunnions 6, are pulled downwardly and the door is swung upwardly on its trunnions, thereby affording ingress into the oven through the doorway-opening.

In bakers' ovens there is constantly produced steam arising from the products being baked, and in the ordinary construction of such ovens the steam rushes out through the doorway into the face of the person opening the door to his annoyance. In order to overcome such annoyance, I place the steam-chamber 2 in the upper part of the door-frame and arrange communication into the escape-flue B in the oven-wall, so that the steam may constantly find egress from the oven. The oven-door swings inwardly and upwardly, and consequently when the door is opened the steam back of it is forced upwardly to the chamber 2, said door forming an extension of said chamber and preventing said steam escaping.

I claim as my invention—

1. An oven-door comprising a door-frame having a door-opening and openings upon each side of the door-opening, an inwardly and upwardly swinging door, arms 8 connected to the sides of the door and extending through the openings, a horizontal equalizing-bar located beneath the door-opening, chains connected to the ends of the equalizing-bar and the arms 8, a pedal-rod pivoted

at one end and having a foot-piece at its other end, and a chain connecting the center of the equalizing-bar with the pedal-rod.

- 5 2. The combination of a door-frame for bakers' ovens having a chamber located above the door within the oven and having continuous communication with the oven and the steam-escape flue, and an upwardly and

inwardly swinging door mounted in the frame, forming a continuation of said chamber when in an open position.

EDWARD A. C. PETERSEN.

In presence of—

E. S. KNIGHT,

M. P. SMITH.