

No. 730,795.

PATENTED JUNE 9, 1903.

E. A. C. PETERSEN.  
BAKER'S OVEN DOOR.  
APPLICATION FILED OCT. 2, 1902.

NO MODEL.

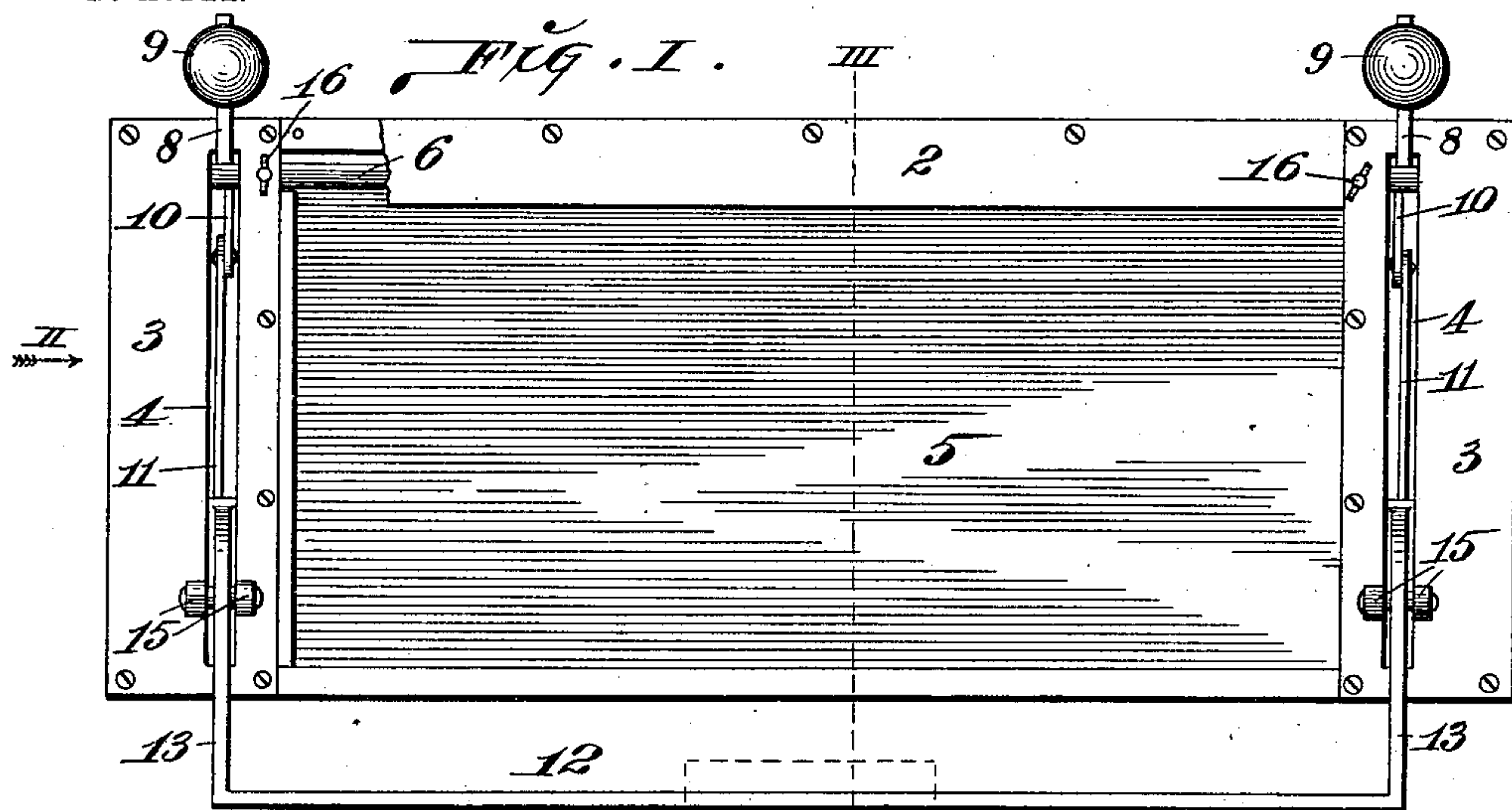


Fig. II.

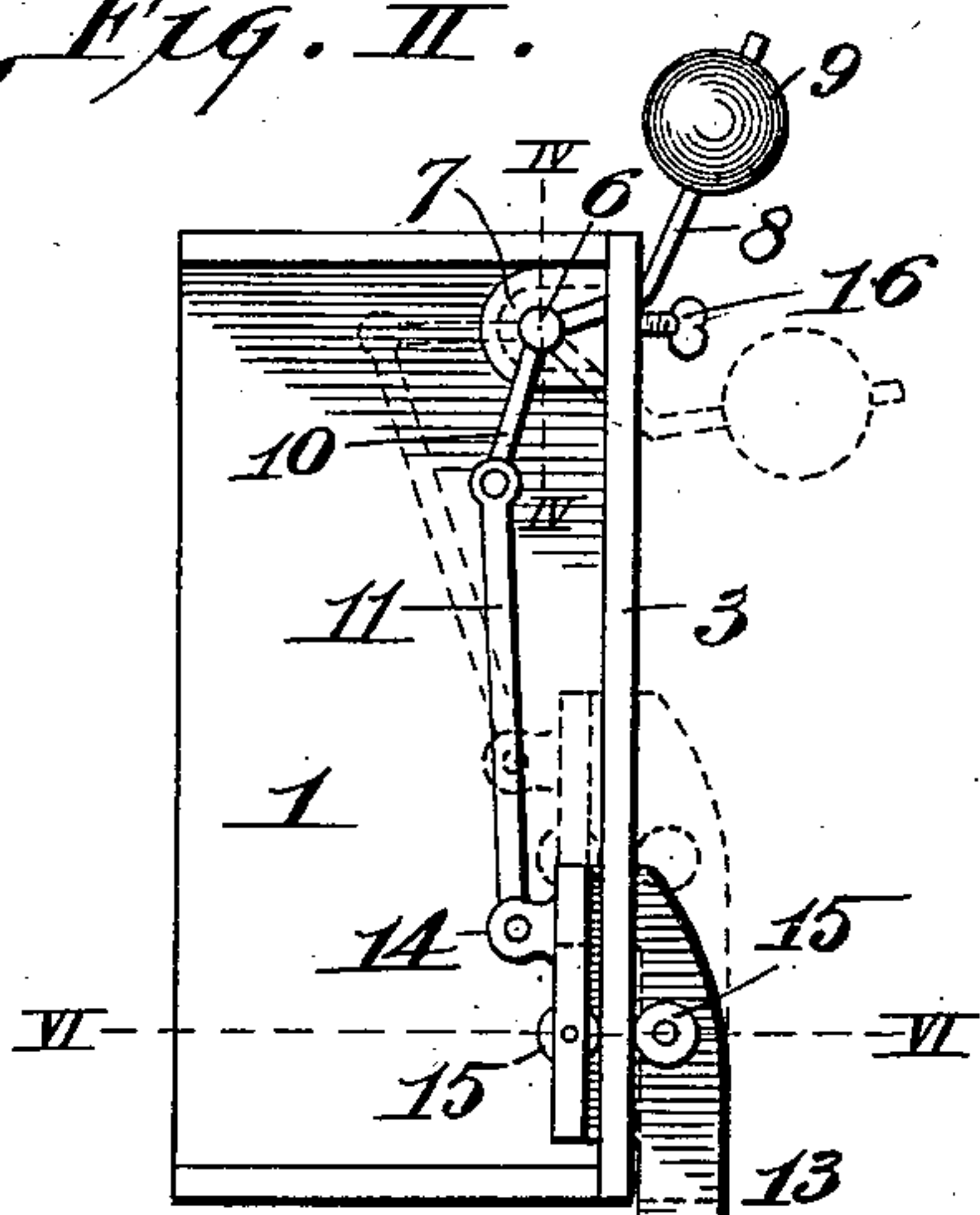


Fig. III.

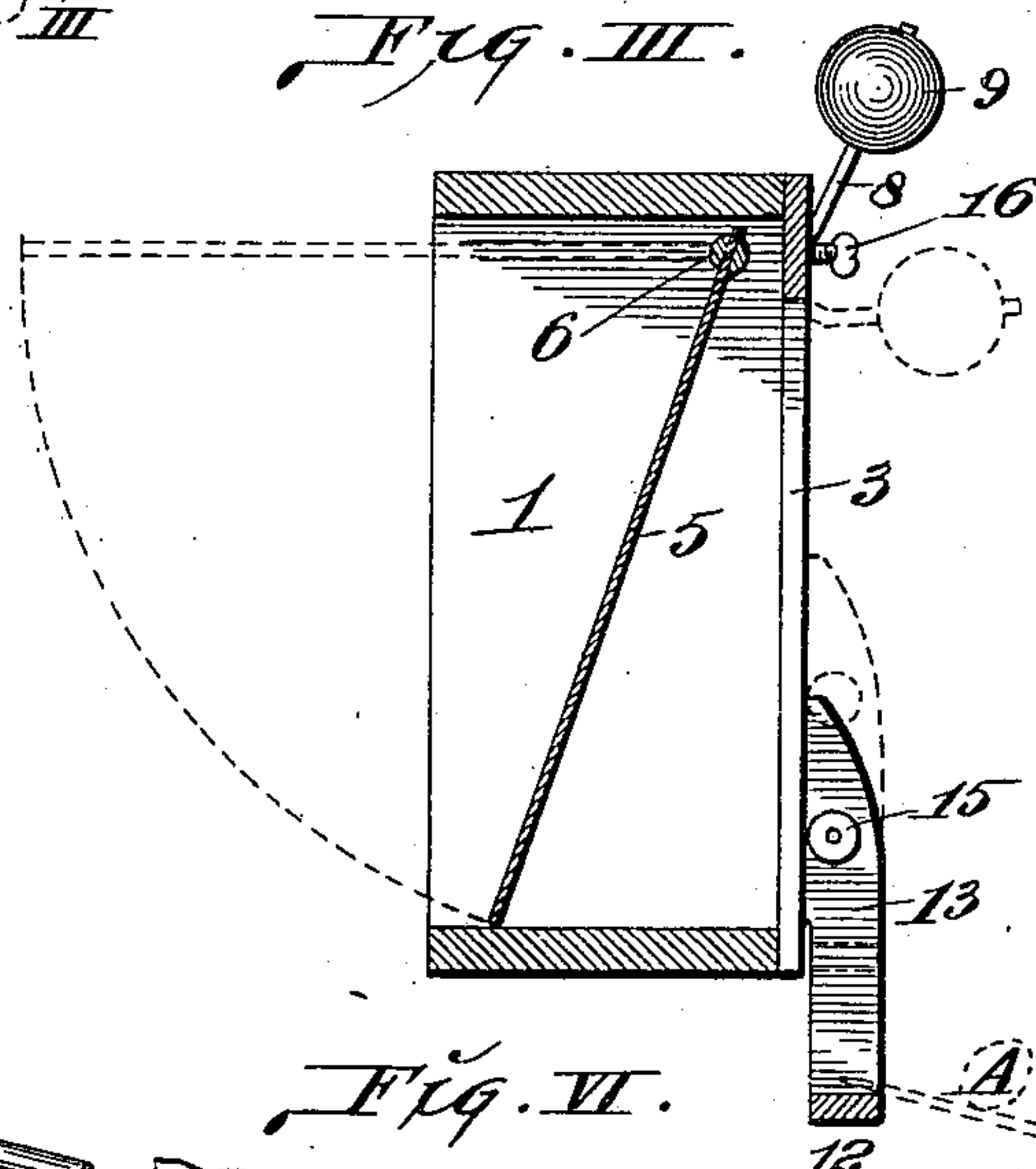


Fig. IV.

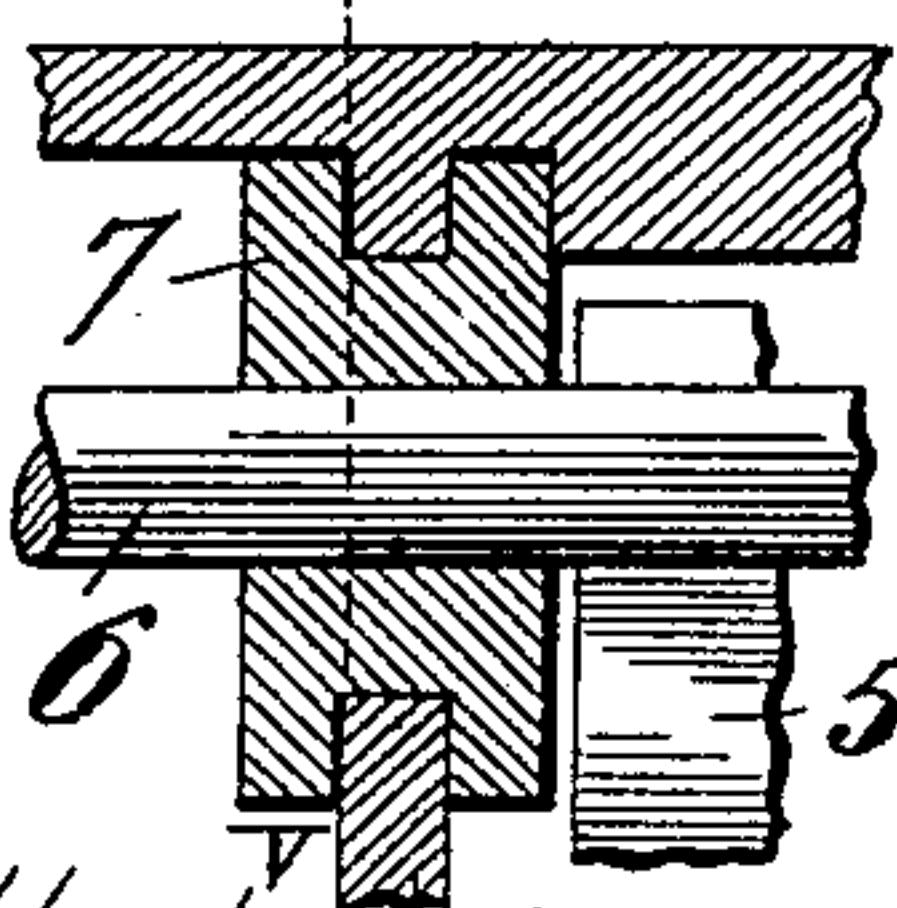


Fig. V.

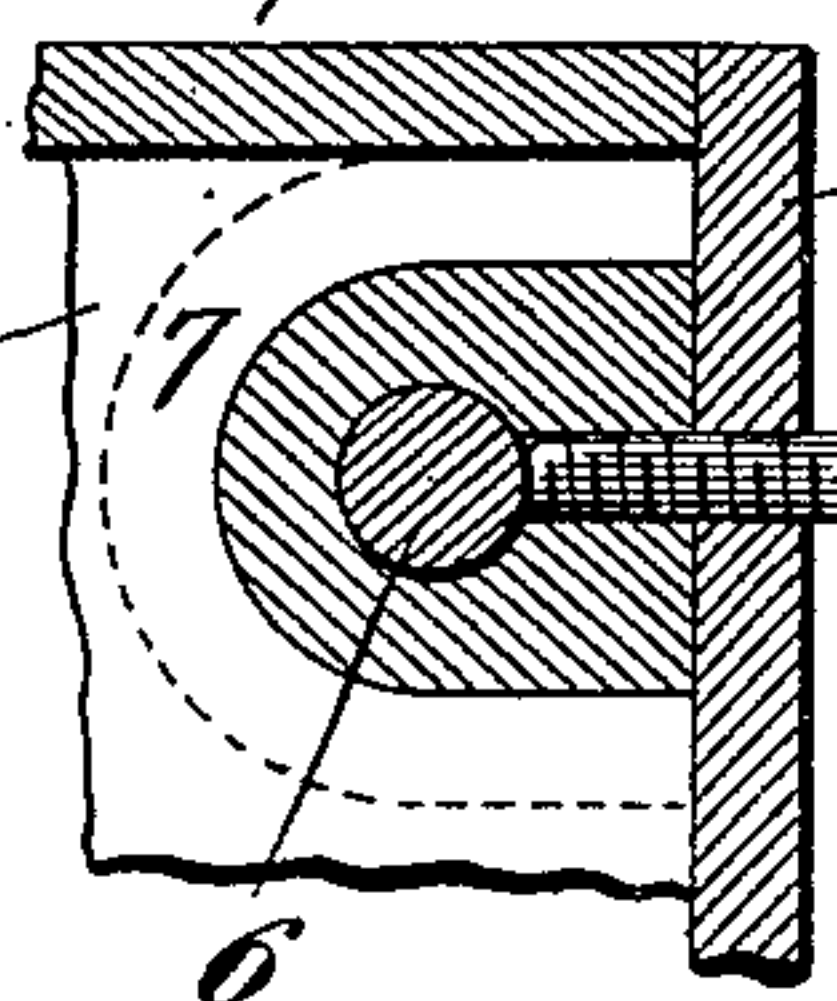
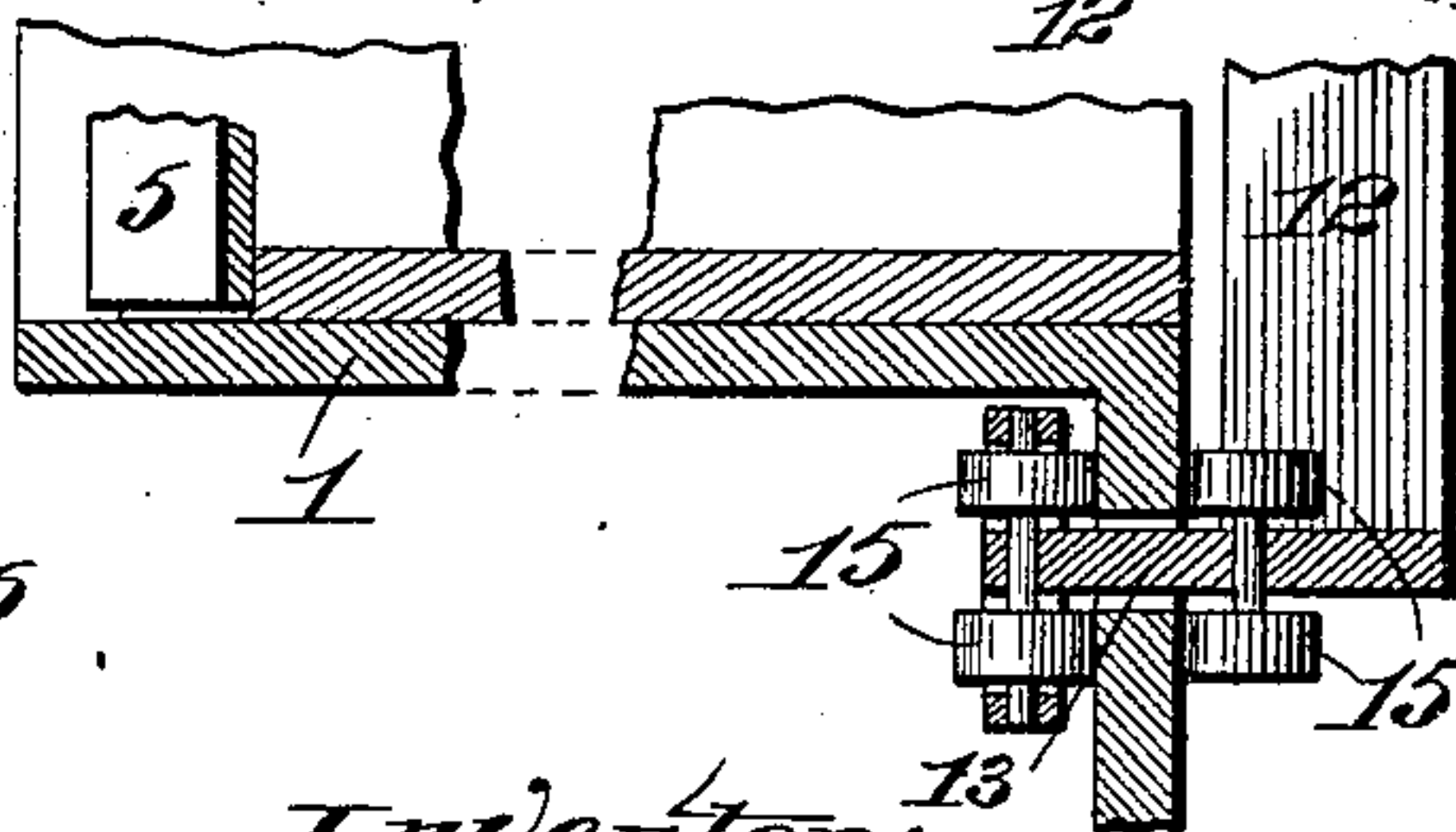


Fig. VI.



attest. 1  
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# UNITED STATES PATENT OFFICE.

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

## BAKER'S-OVEN DOOR.

SPECIFICATION forming part of Letters Patent No. 730,795, dated June 9, 1903.

Application filed October 2, 1902. Serial No. 125,631. (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 Bakers'-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 into bakers' ovens, the improvement, briefly stated, having reference to means for counterbalancing the door and a rest connected to the door and adapted to receive a baker's peel for the purpose of furnishing means for holding the door in closed position during baking operation, but which is relieved on the lifting of the peel to permit the counterbalanced door to swing open for the introduction of the peel into the oven.

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

Figure I is a front elevation of my improved door. Fig. II is an end view of the door. Fig. III is a vertical transverse section taken on line III III, Fig. I. Fig. IV is a vertical section taken on line IV IV, Fig. II. Fig. V is a vertical section taken on line V V, Fig. IV. Fig. VI is a horizontal section taken on line VI VI, Fig. II, with parts broken out.

1 designates a casing provided with a top front plate 2 and side front plates 3. In the plates 3 are vertical slots 4.

5 designates the door, located in the casing 1 and hung from a rock-shaft 6, that is journaled in boxes 7, seated in the side walls of the casing 1, as illustrated in Figs. II, IV, and V. The boxes 7 are grooved and seated in slots at the forward upper edges of the casing end walls in the rear of the end front plates 3.

8 designates weight-arms that are fixed to the rock-shaft 6 and extend through the vertical slots 4 in the front plates 3. On said weight-arms are counterbalance-weights 9, that are adapted to overcome the weight of the door 5 to swing it open into the raised position (illustrated in dotted lines, Fig. III) when freed from restraint in the manner hereinafter set forth.

10 designates lever-arms fixed to the rock-shaft 6 at the locations of the weight-arms 8 and projecting rearwardly therefrom, as seen in Fig. II.

11 are links pivoted to the weight-arms 10.

12 designates a rest that is located in front of the casing and its front plates and is of a length corresponding to the distance between the vertical slots in the end front plates 3. The rest 12 is provided with arms 13, that extend upwardly therefrom and project through the slots 4, they being provided at their rear sides, back of the front plates 3, with ears 14, that receive the pivotal connection of the links 11, joined to the lever-arms 10.

15 designates rollers journaled to the rest-arms 13 in front of and in the rear of the end plates 3 and adapted to ride against said plates to guide the rest-arms as the rest 12 moves vertically in the travel of its arms in the vertical slots 4.

In the practical use of my door the rest 12 is adapted to receive a baker's peel A, (see Figs. I, II, and III,) which by lying upon the rest serves to hold said rest depressed to cause it to exert a downward pull through its arms 13 upon the links 11 and lever-arms 10 to hold the rock-shaft 6 from rotation, and thereby maintain the door 5 in closed position. When the peel A is lifted off the rest 12, the counterbalance-weights 9 overcome the resistance offered by the rest 12 and the parts by which it is connected to the rock-shaft 6 and the door is swung up into open position to permit the introduction of the peel through the doorway into the oven without any other act on the part of the person using the peel to open the door for its introduction.

At times it is desirable to secure the door so that it may be maintained in either closed or open condition when the person attending it is not present, and to provide for the retention I utilize set-screws 16, which are inserted through the boxes 7 and are adapted to bear against the shaft when screwed inwardly and serve to hold the shaft from rotation, thereby holding the door from movement.

I claim as my invention—

1. The combination with a door-casing having front plates provided with vertical slots, of a door positioned in said casing, a rock-

shaft on which said door is hung, a counter-  
balance-weight connected to said rock-shaft,  
lever-arms attached to said rock-shaft, a peel-  
rest located in front of said casing and hav-  
5 ing arms arranged to operate in said vertical  
slots, and means of connection between said  
rest-arms and said rock-shaft lever-arms, sub-  
stantially as and for the purpose set forth.

2. The combination with a door-casing hav-  
10 ing front plates provided with vertical slots,  
of a door positioned in said casing, a rock-  
shaft on which said door is hung, a counter-  
balance-weight connected to said rock-shaft,

lever-arms attached to said rock-shaft, a peel-  
rest located in front of said casing and hav- 15  
ing arms arranged to operate in said vertical  
slots, means of connection between said rest-  
arms and said rock-shaft lever-arms, and roll-  
ers journaled to said rest-arms and adapted  
to travel against said front plates, substan- 20  
tially as and for the purpose set forth.

EDWARD A. C. PETERSEN.

In presence of—

E. S. KNIGHT,

C. M. BETTINGER.