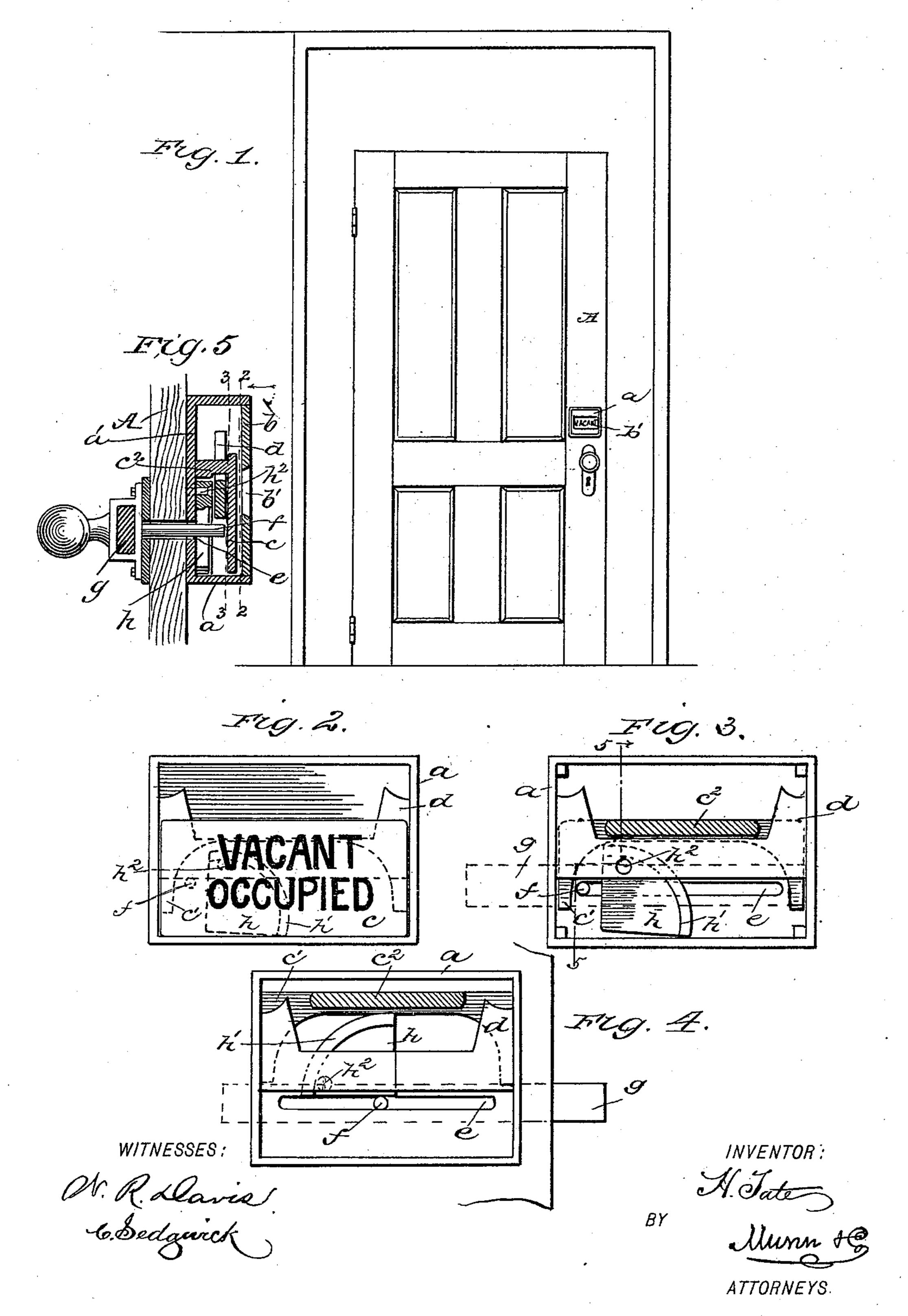
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INDICATOR FOR WATER CLOSETS AND BATH ROOMS.

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HENRY TATE, OF VERPLANCK, NEW YORK.

INDICATOR FOR WATER-CLOSETS AND BATH-ROOMS.

SPECIFICATION forming part of Letters Patent No. 438,505, dated October 14, 1890.

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To all whom it may concern:

Be it known that I, HENRY TATE, of Verplanck, in the county of Westchester and State of New York, have invented a new and 5 useful Indicator for Water-Closets and Bath-Rooms, of which the following is a full, clear, and exact description.

My invention relates to an improved device for indicating when a water-closet or bath-10 room is occupied or vacant; and it consists in the construction and combination of parts, as is hereinafter described, and indicated in the claim.

Reference is to be made to the accompany-15 ing drawings, forming a portion of this specification, in which similar letters of reference indicate corresponding parts in all of the figures.

Figure 1 represents a side elevation of a 20 door with the device in position thereon. Fig. 2 is an enlarged front elevation of the device with the front plate removed on the line 2.2 in Fig. 5. Fig. 3 is a front elevation in section of the indicator, taken on the line 3 3 in 25 Fig. 5, showing the relative position of parts when the door on which the device is secured is unbolted and the indicator set to notify that the room is vacant. Fig. 4 shows a front elevation, in section, taken on the line 3 3 in 30 Fig. 5, with the parts adjusted to indicate that the door is locked or bolted and the room occupied. Fig. 5 is a cross-section of the indicator in position upon the door, taken on the line 5 5 in Fig. 3, the parts being adjusted to 35 indicate that the door is unbolted and the room vacant.

A rectangular casing a is provided of suitable dimensions to receive the operating parts of the device, the casing being in the form of 40 a shallow box with a removable front plate b, (see Fig. 5,) in which an elongated slot b' is cut at a proper distance from the lower edge upon a movable piece c behind the same. 45 The piece c is constructed with a vertical plate on which the indicating words "Vacant" and "Occupied" are affixed or imprinted in parallel lines; preferably the word "Occupied," or one of similar significance, is placed 50 on the lower line and the word "Vacant" above it.

the plate c by a web c^2 . The latter being projected inwardly from the upper edge of the plate c engages the top edge portion of the 55 guide-piece and retains it parallel to the front plate, leaving a space between these flat pieces of suitable width to receive the bracket-plate d, on which the plate c may slide vertically. The bracket-plate d extends across the casing 60 a and is affixed by any preferred means to the side walls of the same removably, its position being such with relation to the plate c and its attached guide-plate c' that the web c^2 , which connects these parts, will rest on the upper 65 edge of the bracket-plate, when by action of gravity the plate c and its attachments slide downwardly so as to expose the upper legend "Vacant" through the slot b', the guide-piece c' being of a proper length to loosely engage 70 its parallel side edges with the adjacent side walls of the casing a and thus cause the plate c to move in parallel planes.

A longitudinal slot e is made in the back plate a' of the casing a, which extends a suit- 75 able length for reciprocal movement of the pin f, that projects through a similar slot in a door to which the casing a is secured, said slots being properly aligned. The pin f is projected from the body of the slide-bolt q, 80 to which it is secured, said bolt and its supports being placed upon the inside surface of the door A, whereon the casing a of the indicator is attached oppositely.

Within the casing a a rocking cam-plate h 85 is pivoted to swing loosely from its point of suspension on the back plate a' of the casing, said cam-plate being a flat plate having a curved edge h' and two straight sides, which, as represented, produce a right angle at their 90 intersection. This is not essential, however, as the cam-plate will operate if it has one edge straight and a right angle is not produced. At one corner, where a straight side to expose appropriate legends that are placed | of the cam-plate joins the curved edge h', a 95 perforation is made in the plate for the introduction of a supporting-pivot h^2 , whereon the plate h may rock.

It will be noticed in Figs. 2 and 3 that when the pin f is at one end of the slot e and the 100 pendent cam-plate has one of its straight edges nearly vertical and adjacent to the pin, the curved edge h' will be so located that the A guide-piece c' is integrally connected to I web c^2 will be free to rest on the upper edge

of the bracket-plate d and permit the word "Vacant" to appear before the slot in the front plate b.

The pin f should be so located on the lock-5 ing slide-bolt g that when said bolt is moved to unlock the door on which it is placed the parts of the indicator mechanism will be ad-

justed as has been described.

When the bolt g is slid in its keepers to re-10 tain a door closed, the pin f will strike against the upright edge of the rocking cam-plate hand cause the curved edge h' to rise and impinge against the lower surface of the web c^2 , which will cause the plate c to slide upwardly 15 and expose the word "Occupied" to view, a reversal of movement to unbolt the door allowing the parts to resume their first position by the action of gravity.

Having thus described my invention, what 20 I claim as new, and desire to secure by Let-

ters Patent, is— The combination, with a slide-bolt on a door,

having a pin f, projecting from the side of said bolt through a horizontal slot in the door, a rectangular casing secured oppositely on 25 the door, having a slot e in its back plate to receive the pin f loosely, and a slot in its front plate to expose a legend on a vertically-movable plate, of a plate c, having two parallel legends formed horizontally on one face and 30 adapted to receive the impinge of a cam-plate at its upper edge, and a quadrantal cam-plate pivoted at one of its corners to the casing above the slot e, so as to receive the impinge of the pin f on its depending portion and be 35 rocked upwardly, thereby elevating the legend-plate c when the slide-bolt g is moved endwise to lock the door, substantially as set forth.

HENRY TATE.

Witnesses:

C. Sedgwick,

E. M. CLARK.