

(No Model.)

J. F. VARRELL.  
KEY FASTENER.

No. 525,371.

Patented Sept. 4, 1894.

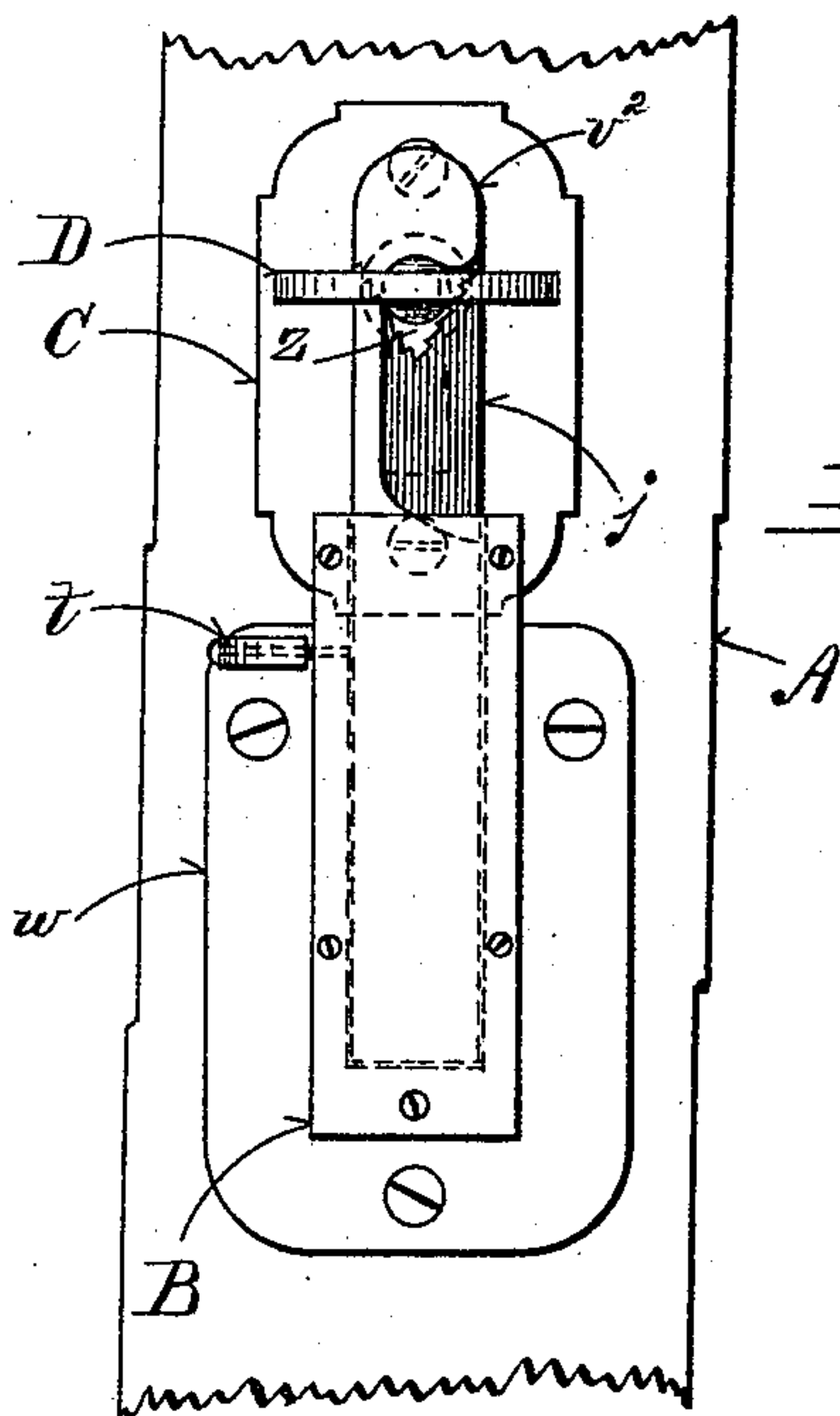


Fig. 1.

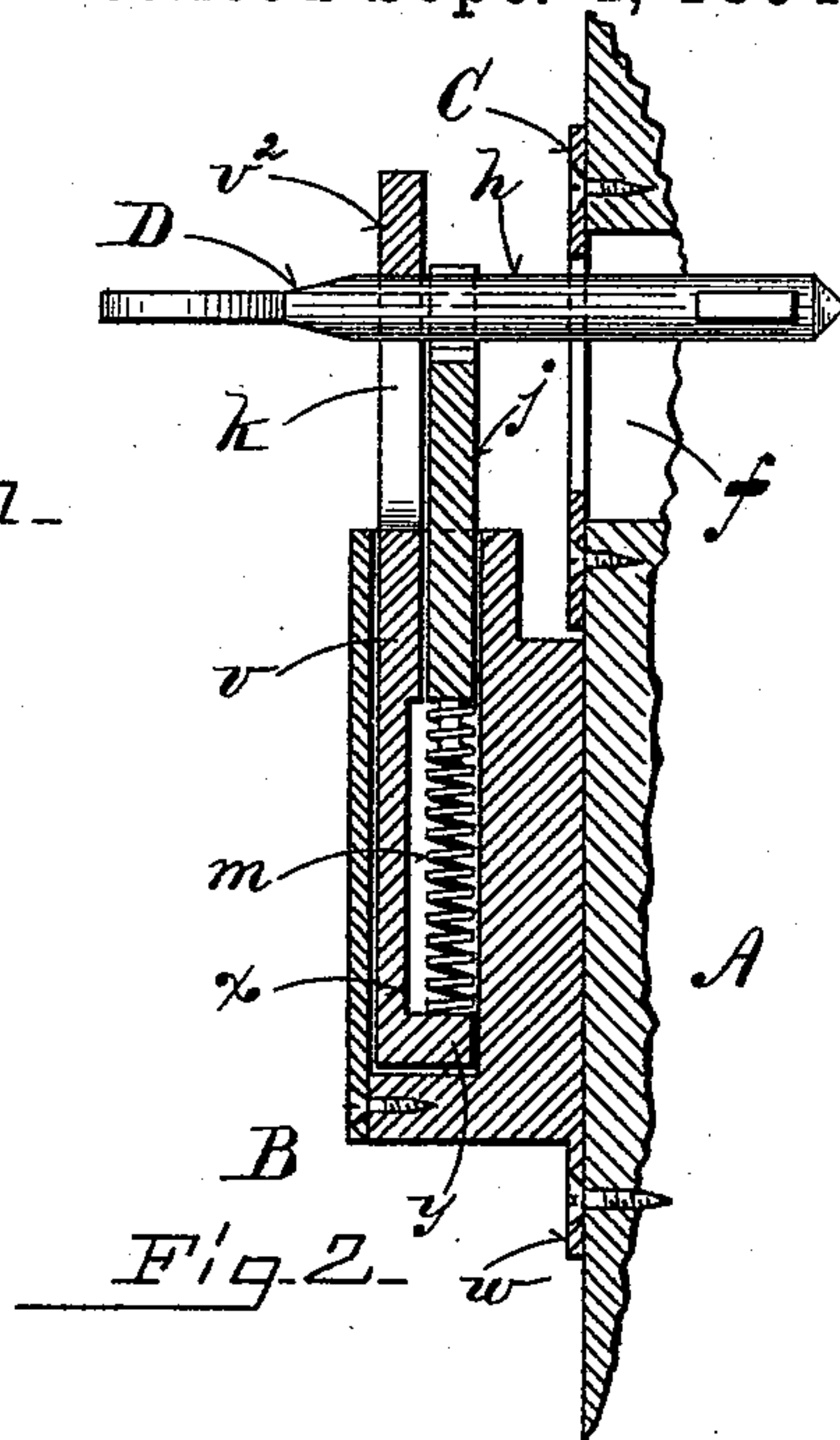


Fig. 2.

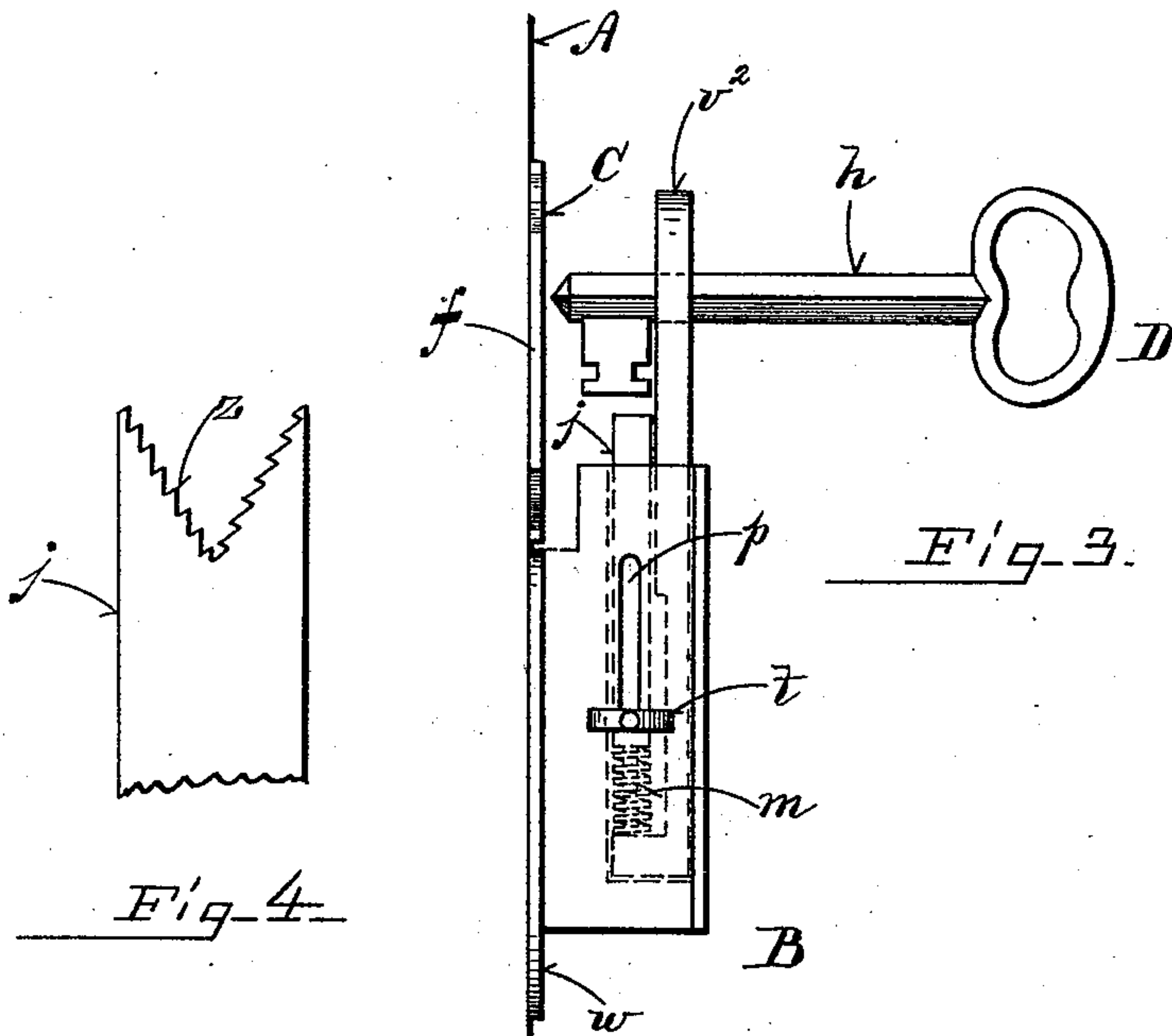


Fig. 3.

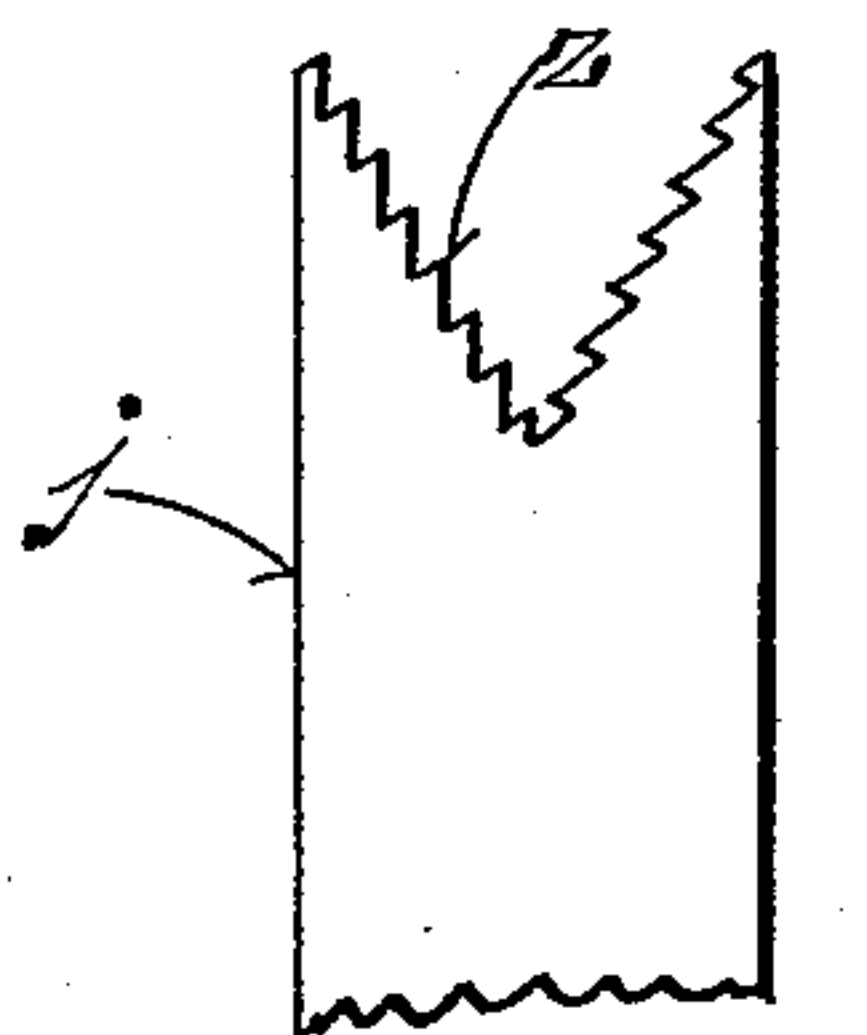


Fig. 4.

WITNESSES=  
T. M. Frawley  
Henry Curry.

INVENTOR=  
John Franklin Varrell,  
By C. A. Shaw & Co.,  
ATTYS.

# UNITED STATES PATENT OFFICE.

JOHN FRANKLIN VARRELL, OF MARBLEHEAD, MASSACHUSETTS.

## KEY-FASTENER.

SPECIFICATION forming part of Letters Patent No. 525,371, dated September 4, 1894.

Application filed June 6, 1894. Serial No. 513,633. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN FRANKLIN VARRELL, of Marblehead, in the county of Essex, State of Massachusetts, have invented certain  
5 new and useful Improvements in Key-Fasteners, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which  
10 said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front elevation of my improved key fastener represented as in use on a door;  
15 Fig. 2 a vertical transverse section of the same; Fig. 3 a side elevation; and Fig. 4 an elevation illustrating details.

Like letters of reference indicate corresponding parts in the different figures of the  
20 drawings.

My invention relates especially to a device for preventing the forcing out of a key from a door lock from the outside of the door; and it consists in certain novel features hereinafter fully set forth and claimed, the object being to produce a simple, cheap and effective  
25 device of this character.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following  
30 explanation.

In the drawings, A represents the door to which the ordinary escutcheon is secured around the key-hole, *f*, and through which the key, D, may be inserted. This key may  
35 have a squared shank, *h*, as in Fig. 2, or a round shank as in Fig. 3.

The fastener comprises a box shaped body, B, provided with an attaching plate, *w*, which  
40 is secured to the door by screws below the escutcheon, C. This box is open at its top and a plate, *v*, is disposed therein and fitted to slide laterally. This plate has a hook-shaped head, *v*<sup>2</sup>, which will over-ride the shank of  
45 the key and the lower end of the plate is grooved laterally at, *x*, forming a foot, *y*. A plunger, *j*, is fitted to slide in the box with its face in contact with the face of the plate, *v*. This plunger is pushed outward by a spring,  
50 *m*, resting on the foot, *y*, within the box and

its upper end has a V-shaped notch, *z*, which has its edges serrated as shown in Fig. 4. The side wall of the box, B, is slotted vertically at, *p*, (see Fig. 3) and a pin having a knob, *t*, projects through said slot, into the  
55 plunger, *j*, through which it is fast.

In adjusting the device on the door the knob, *t*, is forced downward compressing the spring, *m*, the key, D, being in the key hole, the hook-head, *v*, is engaged with the shank  
60 thereof and the fastener body attached to the door by its screws. The knob, *t*, being released the plunger, *j*, is forced upward by the spring and engaged in its V-notch, *z*, with  
65 the shank. Where a square shank, *p*, is used the serrations in this notch prevent its being readily rotated from the opposite side of the door and when the leaf of the key registers with the key-hole the plunger will engage  
70 said leaf and prevent its being forced out from the lock until said plunger is depressed by means of the knob, *t*.

Having thus explained my invention, what I claim is—

1. A key-fastener comprising a body attachable to a door adjacent the key-hole; a hook-shaped projection thereon for over-riding the key-shank and a spring-pushed plunger in said body for engaging the shank from the under side substantially as described.  
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2. In a key-fastener for doors a body attachable to the door in combination with a hook projecting therefrom for engaging the key shank from the upper side; a plunger fitted to slide vertically in said body and having a V-notch in its top for engaging said  
85 shank from the lower side, the walls of said notch being serrated and a spring pushing said plunger vertically.

3. In a key fastener, a body attachable to the door in combination with a hook, *v*<sup>2</sup>, thereon for engaging the key shank; the spring-pushed plunger, *j*, having the notch, *z*, for engaging said shank and a knob or projection for operating said plunger all being  
95 arranged substantially as described.

JOHN FRANKLIN VARRELL.

Witnesses:

WILLIAM G. BROWN,  
SAMUEL R. ADAMS.