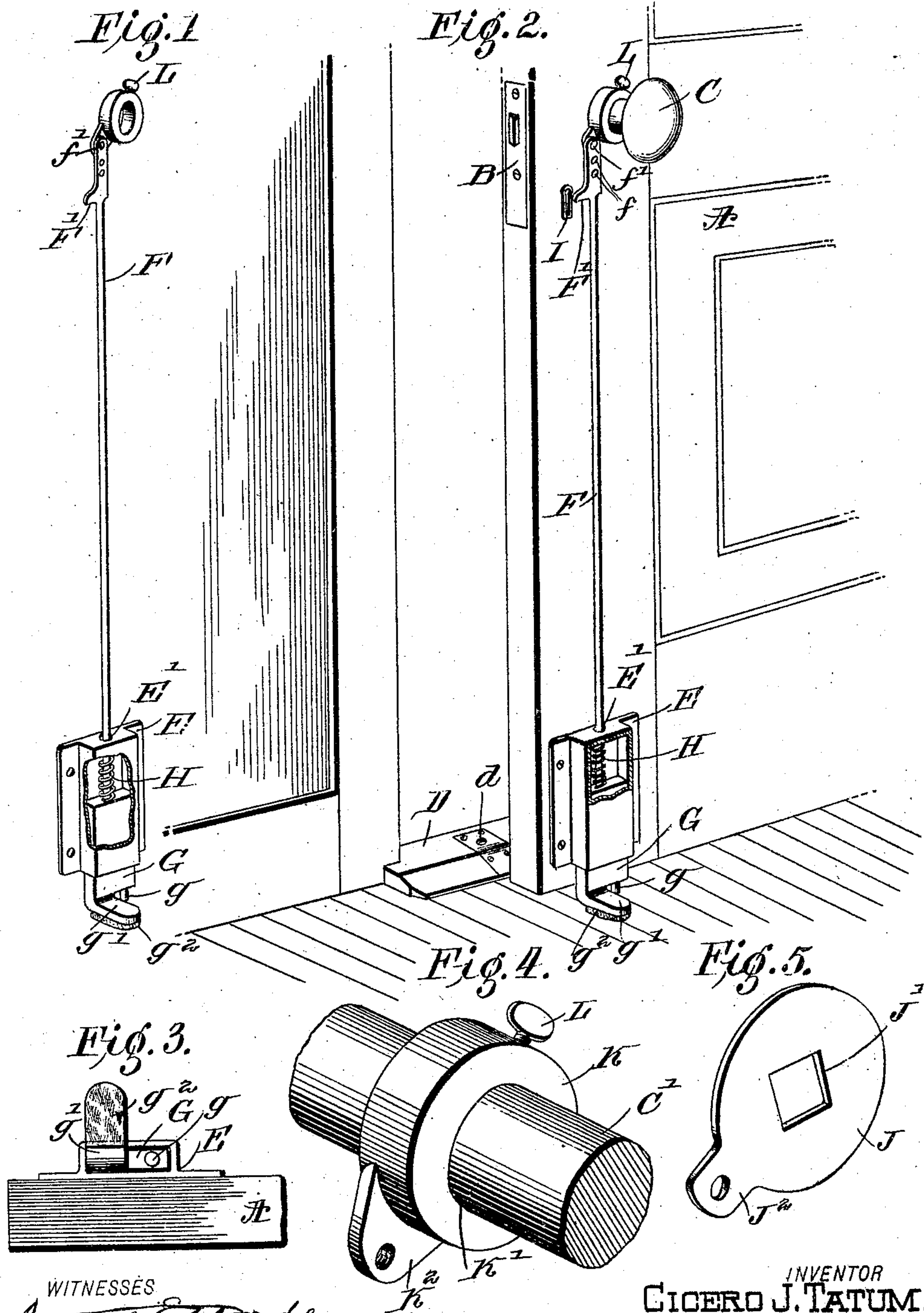


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C. J. TATUM.
DOOR STOP AND LOCK.
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DOOR STOP AND LOCK.

No. 849,932.

Specification of Letters Patent.

Patented April 9, 1907.

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To all whom it may concern:

Be it known that I, CICERO JAMES TATUM, a citizen of the United States, and a resident of Port Arthur, in the county of Jefferson and State of Texas, have invented certain new and useful Improvements in Door Stops and Locks, of which the following is a specification.

My invention is an improvement in door stops and locks, and consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of my improved device, the casing of the bolt-lock being partly broken away. Fig. 2 is a perspective view showing a portion of a door, a portion of its frame and threshold, and the improved devices arranged in position for use, the casing of the bolt-block being partly broken away. Fig. 3 is a bottom plan view of the improved devices applied to a door. Fig. 4 is a detail perspective view illustrating the connecting-ring in place upon the knob-spindle, and Fig. 5 shows a somewhat different construction from that presented in Fig. 4.

In presenting my invention I have illustrated it in connection with a door A, having a latch B and knob C and threshold D, all of which may be of the usual construction. The threshold D is preferably provided in its upper face with a socket *d*, which may be reinforced by a wear-plate *d'*, as shown in Fig. 2. This socket *d* is for engagement by the bolt on the bolt-block when the door is closed to hold the same in such position.

On the inner face of the door, near its swinging edge and its lower end, I provide a casing E, open at the bottom and having at its top an opening E', through which the rod F passes in the operation of the device. The bolt-block G is movable vertically within the casing E, is connected with the lower end of the rod F, and is actuated downwardly by a spring H, arranged within the casing E and bearing between the top of the casing and the upper end of the block G. At its lower end the block G has a depending bolt *g* to enter the socket *d* and a lateral lug or foot *g'*, which may be cushioned on its lower face at *g''* and is designed to bear against the floor-surface and hold the door in any suitable position when open or ajar.

From the foregoing description it will be

noticed that when the door is closed the bolt *g* will enter the socket *d* and lock the door in closed position and that the foot *g'* when the door is open will be spring-pressed against the floor and will hold the door open in any desired position.

Means are provided whereby the bolt-block may be operated from the knob-spindle and also may be operated independently of the said knob-spindle by a key inserted through a keyhole I. To this end a connecting-plate is mounted on the knob-spindle to turn therewith and is provided with a crank projection connected with the upper end of the rod F, and the latter may be provided with a plurality of openings *f*, so the connection of the rod F with the plate on the spindle may be adjusted as may be necessary in applying the device to doors.

As shown in Fig. 5, the connecting-plate J has a square opening J' to fit on the knob-spindle and a crank projection J² for connection with the rod F. When this plate J is used, the pin *f'*, connecting the rod F with the plate on the spindle, may be released. It may, however, be preferred to employ a connecting-plate K (shown in Fig. 4) and having a circular opening K' fitting on the circular knob-spindle C' and secured thereon in any desired position by any suitable form of fastening L, which may be a set-screw, as shown. This plate K also has a crank projection K² for connection with the upper end of the rod F, and when the plate K is clamped at L on the knob-spindle the turning of the latter will raise and lower the bolt-block G by the connection F, as will be understood from Figs. 1 and 2 of the drawings. When, however, it is desired to use the rod F, as in a night-lock, the screw L may be released and the knob be permitted to turn freely within the opening K' of the plate K. The rod F is provided below the connecting-plate K with an abutment F' for engagement by a key inserted through the keyhole I. This abutment is preferably the lower edge of the lug projecting from the rod F, the latter having an extension above the said lug leading to the plate on the knob-spindle, as before described. In the operation of this portion of my invention when the screw-head is tightened upon the spindle C' the bolt-block may be freely operated by the turning of the knob-spindle; but when the set-screw is re-

leased the rod F can only be actuated from without the door by means of the key inserted through the hole I and engaged with the abutment, as before described.

5 In the construction shown in Figs. 1 and 2 it will be noticed that the plate on the spindle when released operates as a guide for the upper end of the rod F as the latter is raised by the key and also serves to maintain the
10 upper end of said rod in convenient position for the engagement of its abutment F by the key when the latter is inserted through the hole I. As knobs are usually spring-actuated by means of the ordinary devices con-
15 nected therewith, it will be understood that such knob-springs will aid the spring H in pressing the cushion-block into engagement with the floor-surface.

I claim—

20 1. The improved door fastener and lock herein described consisting of a connecting-plate having a circular-opening adapted to embrace a knob-spindle and provided with fastening means whereby it may be secured
25 to turn with said spindle and also having a crank projection, a rod connected at its upper end with the crank projection and provided below said connection with an abutment for a key, a casing through which said
30 rod projects at its lower end, a bolt-block operating in said casing and connected with the lower end of said rod, the said block being provided at its lower end with a depending bolt and with a lateral lug having a cushion-
35 surface, and a spring for depressing the block, substantially as and for the purpose set forth.

2. A door fastener and lock comprising a sliding bolt-block provided with a foot to engage the floor, a spring for depressing said
40 block, a rod extending upwardly from said block and provided with means for operation by a key, a connecting-plate to which said rod is secured, said plate being adapted to fit on a knob-spindle, and means for securing
45 said connecting-plate to turn with the spindle and adapted to be released to permit the free rotation of said spindle without operating

the rod and its connected parts, substantially as set forth.

3. The combination with a door and its knob-spindle of a bolt-block, a rod connected therewith and provided with means for operation by a key and intermediate devices between said rod and the knob-spindle whereby the rod may be operated by the turning of
55 said spindle, substantially as set forth.

4. The combination with the bolt-block of devices connected therewith extended upwardly therefrom and having means for operation by a key, substantially as set forth. 60

5. The combination of a door, a knob-spindle, a plate thereon and having a crank projection, a bolt-block, and a rod between said block and the plate on the knob-spindle and having an abutment for engagement by
65 a key, substantially as set forth.

6. A door fastening and lock comprising a bolt-block having a bolt to enter a socket in the threshold and a foot to engage a floor-surface, a rod extending upwardly from said
70 block and having an abutment for engagement by a key, a plate connecting the rod with the spindle, and means for securing said plate detachably to the spindle so it may be caused to revolve with the spindle or may be
75 free on the spindle, substantially as set forth.

7. In a door fastener and lock, a bolt-block having a cushion-foot to engage a floor-surface and a depending bolt for locking engagement with a suitable socket, substan-
80 tially as set forth.

8. The combination of the bolt-block, the rod projecting upwardly therefrom and having means for operation by a key, and means for connecting the rod with the knob-spindle
85 and having devices whereby said connecting means may be clamped to the spindle or released therefrom to permit the independent operation of said spindle and connecting-rod, substantially as set forth.

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Witnesses:

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