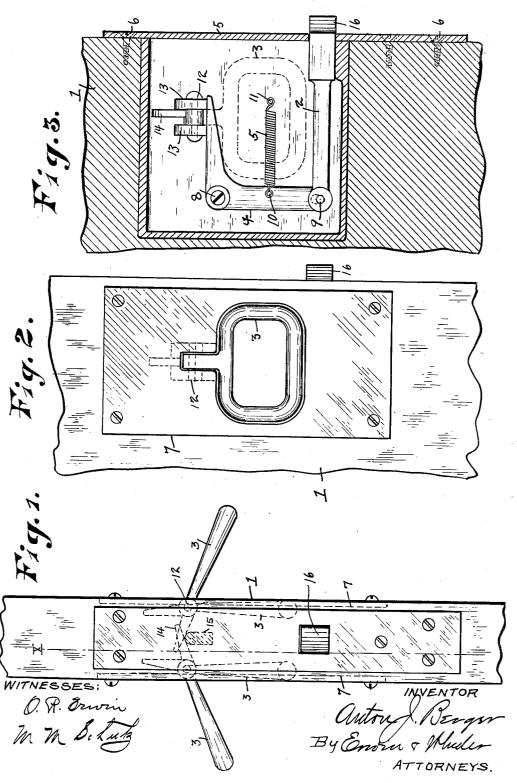
A. J. BERGER.
DOOR LOCK.
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UNITED STATES PATENT OFFICE.

ANTON J. BERGER, OF MILWAUKEE, WISCONSIN.

DOOR-LOCK.

No. 856,214.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, Anton J. Berger, a citizen of the United States, residing at the city of Milwaukee, county of Milwaukee, and State of Wisconsin, have invented new and useful Improvements in Door-Locks, of which the following is a specification.

My invention relates to improvements in that class of door fasteners in which a door 10 is retained in its closed position by spring actuated sliding bolt which bolt is adapted to be automatically thrown back as the door is closed by contact of its protruding beveled end with the side of a retaining plate, while 15 said bolt is thrown forward into locking engagement with such retaining plate by the recoil of the actuating spring.

The object of my invention is among other things, first, to provide a suitable operating 20 handle as a substitute for the knob heretofore used by which the sliding bolt will be drawn back out of engagement with the retaining plate by simply drawing rearwardly upon such handle and the necessity of turn-25 ing the handle as the door is opened is avoided. Second, to provide a bolt operating device which when not in use may be folded down parallel with or within the surface of the door, and third, to provide a more simple 30 and efficient means for operating the door retaining bolt and one which will also be less liable to get out of order than those hereto-fore used.

My invention is further explained by refer-35 ence to the accompanying drawings in which,

Figure 1 represents the edge of a door provided with my improved fastening, part of which is indicated in dotted lines. Fig. 2 is a front view of my device in connection with 40 a door, and Fig. 3 is a vertical section thereof drawn on line x-x of Fig. 1.

Like parts are identified by the same reference figures throughout the several views.

1 represents the door, 2 the door retaining 45 bolt, 3 the operating handle, 4 an elbow crank lever by which motion is communicated from the operating handle 3 to the bolt preparatory to opening the door.

5 represents a bolt actuating spring by 50 which the bolt is automatically thrown out

into its locking position.

5 is an inclosing case for the actuating mechanism which is secured in a recess of the door in the ordinary manner by the screws 6. 7 is a plate upon which the operating han-

dle is pivotally supported in contact with the elbow crank lever, a similar plate 7 not shown is located upon the opposite side of the door. The elbow crank lever is pivotally supported from an inclosing case 5 by the bolt 8 and is 60 pivotally connected at its lower end with the reciprocating bolt 2 by the pin 9. The actuating spring 5 is connected at one end with the elbow crank lever 4 by a pin 10 and at its opposite end to the inclosing case 5 by the 65

The handle 3 is pivotally connected with the plate 7 by the bolt 12 and handle supporting lugs 13. Thus it will be obvious that when the outer end of the handle 3 is raised, 70 the lug 14 which is formed integrally with said handle, will be brought in contact with the upper arm 15 of the elbow crank lever, whereby the lower arm of said lever will be thrown toward the left, and whereby the 75 bolt 2 will be drawn out of engagement with the retaining plate of the door which is supported from the door casing in the ordinary manner, while by a rearward pull upon the handle 3 the door will be opened. When, When, 80 however, the door is swung into its closed position the beveled end 16 of the bolt will contact with the door retaining plate whereby said bolt will be automatically thrown inward until the door has reached its closed 85 position when by the recoil of said spiral spring 5 said bolt will be thrown outward and into engagement with the retaining plate. It will be understood that both sides of the door are provided with similar handles 90 3 as shown in Fig. 1 and that both handles 3 are adapted to act in like manner upon the elbow crank lever as the door is opened. Thus it will be obvious as previously stated that the same movement of the handle 95 which is required in drawing the door open will simultaneously disengage the bolt from its retaining plate.

Having thus described my invention what I claim as new and desire to secure by Let- 100

ters Patent is,

In a door lock the combination of a bolt inclosing case, a reciprocating bolt inclosed in said case, an elbow crank lever pivotally supported at the angle of its respective arms 105 from said inclosing case, means for pivotally connecting one of the arms of said lever with one end of said reciprocating bolt, spring actuated means for normally retaining said bolt in its extended locking position, two 119

door operating handles pivotally supported from the respective walls to said bolt inclosing case at right angles to said elbow crank lever, the inner pivotally supported 5 ends of said handles being adapted as their outer ends are raised to contact with the free arm of said elbow crank lever, whereby said lever is turned upon its supporting pivot and said bolt is withdrawn from its

locking position, all substantially as and for 10 the purpose specified.

In testimony whereof I affix my signature in the presence of two witnesses.

ANTON J. BERGER.

Witnesses:

Jas. B. Erwin, John H. Noll.