

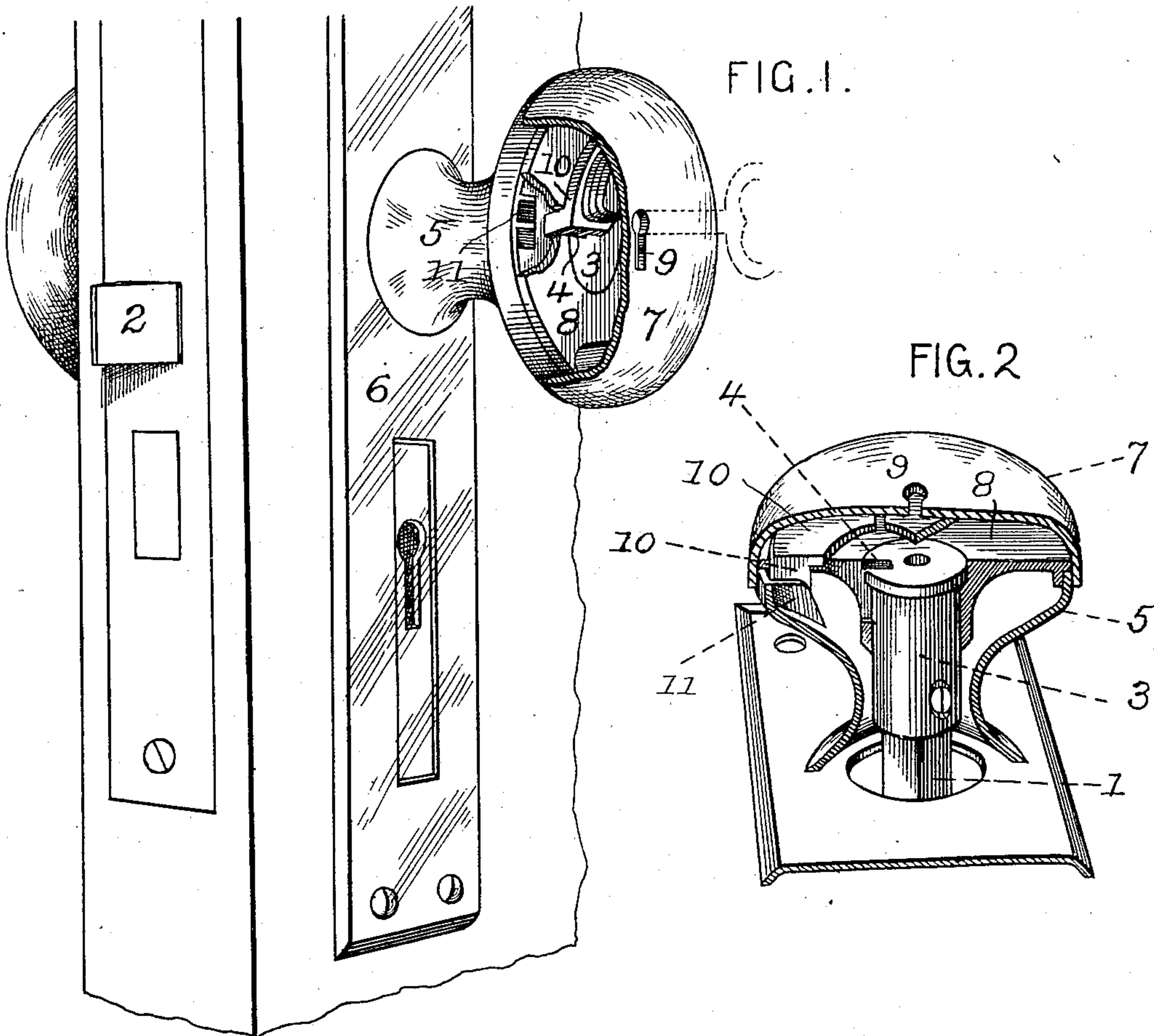
No. 661,899.

Patented Nov. 13, 1900.

E. WHITTINGHAM.
KNOB LOCK.

(Application filed Aug. 24, 1899.)

(No Model.)



WITNESSES:

James Lavallin

M. H. Holmes

INVENTOR:

Ernest Whittingham,

by Robert Burns

ATT'Y.

UNITED STATES PATENT OFFICE.

ERNEST WHITTINGHAM, OF CHICAGO, ILLINOIS.

KNOB-LOCK.

SPECIFICATION forming part of Letters Patent No. 661,899, dated November 13, 1900.

Application filed August 24, 1899. Serial No. 728,369. (No model.)

To all whom it may concern:

Be it known that I, ERNEST WHITTINGHAM, a citizen of the United States of America, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Combined Door Knob and Lock, of which the following is a specification.

The present invention relates to that type of door-locks in which the lock mechanism is arranged within the door-knob and adapted to lock the door-knob against a turning action to effect an operation of the latch mechanism and an unlatching of the door and to unlock the door-knob to permit a turning action of the door-knob to attain an unlatching of the door.

The object of the present improvements is to provide a simple, durable, and effective connection between the door-knob and the spindle of the latch mechanism, with which the knob can be operatively engaged with such spindle to effect an operation of the latch mechanism by the turning of the knob and with which the knob can be disengaged from said spindle, so as to prevent an operation of the latch mechanism by the turning of such knob, all as will hereinafter more fully appear and be more particularly pointed out in the claims.

I attain such object by the construction and arrangement of parts illustrated in the accompanying drawings, in which—

Figure 1 is a sectional perspective view illustrating the present mechanism in an unlocked position; Fig. 2, a sectional perspective view illustrating the parts in a locked position.

Similar numerals of reference indicate like parts in both views.

Referring to the drawings, 1 represents the lock-spindle, having the usual connection with the spring-latch bolt 2 and provided with an end hub 3, provided with a peripheral notch or recess 4, as shown in Fig. 1, and adapted to receive a sliding locking bolt or plate, as hereinafter described.

In the present improvement the door-knob comprises a stationary bell-shaped shank portion 5, that may constitute a part of the rose

or escutcheon 6 of the door, an outer or cap portion 7, inclosing the lock mechanism, and an inner plate portion 8, turning with said cap portion and constituting a support and guide for said lock mechanism in its movements.

9 is a centrally-arranged keyhole in the cap portion, giving ingress to the key for operating the lock mechanism.

The lock mechanism will comprise a reciprocating locking bolt or piece 10, preferably tumbled in the usual manner and adapted to alternately engage in the peripheral recess or notch 4 of the end hub of the latch-spindle 1 to effect an operation of the latch mechanism or with the notch or recess 11 in the stationary shank portion 5 of the knob to lock the cap portion 7 and plate portion 8 of the knob against rotation, and thus prevent an operation of the latch mechanism. The locking-bolt 10 is guided in its reciprocating movements by means of guide-lugs upon one of its faces having engagement in suitable guide-slots therefor in the plate portion 8 of the knob, as illustrated in Fig. 2. Any other well-known means for guiding said bolt may, however, be employed without departing from the spirit of this part of my present invention.

Having thus fully described my said invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination with the usual spring-latch bolt and its operating-spindle, of an end hub secured to said spindle and provided with means for engaging the lock-bolt, a door-knob comprising a stationary shank formed with a locking-recess and a cap portion adapted to turn upon said shank portion, and a lock-bolt arranged to move within said cap portion, and adapted to have detachable engagement with shank portion of the knob and with the end hub of the spindle, substantially as set forth.

2. The combination with the usual spring-latch bolt, and its operating-spindle, of an end hub secured to said spindle and provided with a peripheral notch, a door-knob comprising a stationary shank formed with a locking-recess in line with the notch in the

spindle-hub, and a cap portion adapted to turn upon said shank portion, and a lock-bolt arranged to slide within said cap portion and adapted to have alternate engagement with
5 the notch in the spindle-hub, and the notch in the stationary shank portion of the knob, substantially as set forth.

In testimony whereof witness my hand this 15th day of August, 1899.

ERNEST WHITTINGHAM.

In presence of—

ROBERT BURNS,
H. K. RIGHTMIRE.