

(No Model.)

G. M. HUDSON.

MECHANISM FOR OPERATING DOOR BOLTS.

No. 550,719.

Patented Dec. 3, 1895.

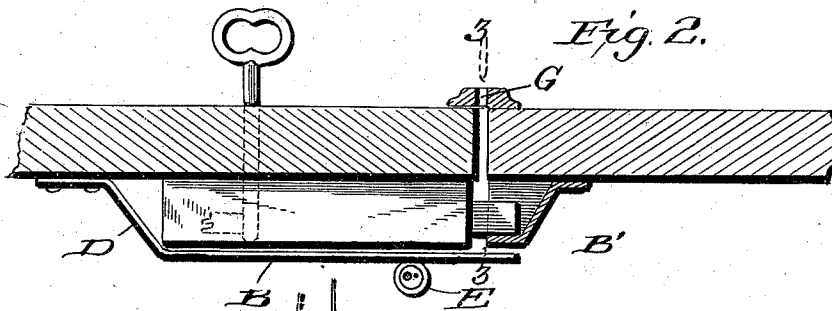
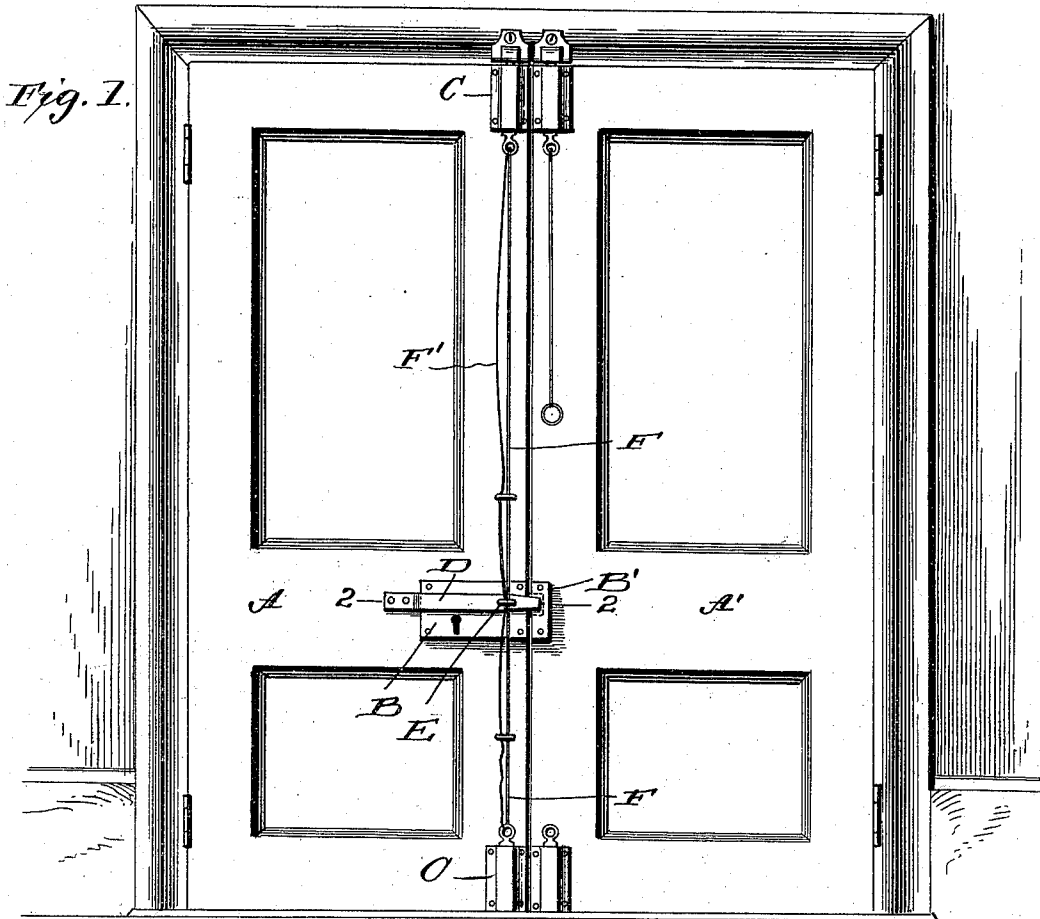


Fig. 3.

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UNITED STATES PATENT OFFICE.

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MECHANISM FOR OPERATING DOOR-BOLTS.

SPECIFICATION forming part of Letters Patent No. 550,719, dated December 3, 1895.

Application filed September 30, 1895. Serial No. 564,167. (No model.)

To all whom it may concern:

Be it known that I, GEORGE M. HUDSON, a citizen of the United States, residing at Birmingham, in the county of Jefferson and State of Alabama, have invented certain new and useful Improvements in Mechanism for Operating Door-Bolts; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in devices for operating door-bolts; and the object of the invention is to provide a simple and cheaply-constructed device which may be applied to the inside of a door which will serve to effectually prevent the operating or moving from their locked position the sliding spring-actuated bolts which are attached to the inside of the door at top and bottom, from the outside, until after the bolt of the regular lock upon the door shall have first been thrown back by means of the door-key, the device being so constructed and arranged as to permit the ready removal or moving of the bolts both at the top and bottom of the door simultaneously, when the door has been unlocked, by means of any suitable sharp-pointed instrument.

The invention has for a further object the provision of a supplemental connection between the sliding bolts which, while normally inactive, will serve to operate the bolts in the event of breaking of the wire or cord which is normally in active relation to the bolts.

To these ends and to such others as the invention may pertain the same consists in the peculiar construction and in the novel combination, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the accompanying drawings, and then specifically defined in the appended claim.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, like letters of reference indicating the same parts throughout the several views, and in which drawings—

Figure 1 is a vertical inside view of double

doors having top and bottom bolts with my bolt-operating mechanism applied to the locked side of the door. Fig. 2 is a section upon line 2 2 of Fig. 1. Fig. 3 is a section upon the line 3 3 of Fig. 2.

Reference being had to the details of the drawings by letter, A A' are double doors of ordinary construction provided with the usual form of lock B, and at the top and bottom with spring-actuated bolts C C.

D is a spring-metal strip which at one of its ends is securely attached to the door at the rear end of the lock B, said strip D being extended over the face of the lock longitudinally above the keyhole, its free end terminating directly over the hasp B' upon the opposite door and passing directly over the bolt of the lock. Near its free end the strip D is provided with a ring E, through which is passed a wire or cord F, the upper and lower ends of which are attached to the bolts C C at the upper and lower edges of the door, the said wire being normally taut, as shown, while a second wire or cord F', which is preferably lighter or of smaller diameter, also connects the said bolts and is passed through the ring E upon the strip B, this wire F' being normally slack and being intended for use only in the event of the breaking of the wire or cord F.

The operation of the device will from the foregoing description be readily understood. The door having been locked by the use of the key, the bolt of the lock will in entering the hasp B' pass across the opening G. When the bolt is thrown back in unlocking the door, a pin or other sharp-pointed instrument may be forced through the opening G and against the lower face of the free end of the spring-metal strip B, which in its outward movement will draw upon the wire or cord F, thus withdrawing the bolts at the top and bottom of the door. In case the wire or cord F should at any time become broken, the auxiliary cord or wire F' would serve to release the bolts, and this auxiliary wire or cord can be used until the wire F is repaired.

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

The combination with a door, its lock, bolts at the top and bottom of the door, a spring

metal arm upon the inside of the door with its
free end extended over the line of the bolt of
the lock, wire or cord connecting the bolts at
the top and bottom of the door respectively
5 and passing through a ring upon the free end
of the spring metal arm, and an opening in
the door through which a pointed instrument
may be forced into contact with the spring

arm when the bolt of the lock is thrown back,
substantially as described. 10

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

GEO. M. HUDSON.

Witnesses:

WESLEY M. SMITH,

J. D. CHICHESTER.