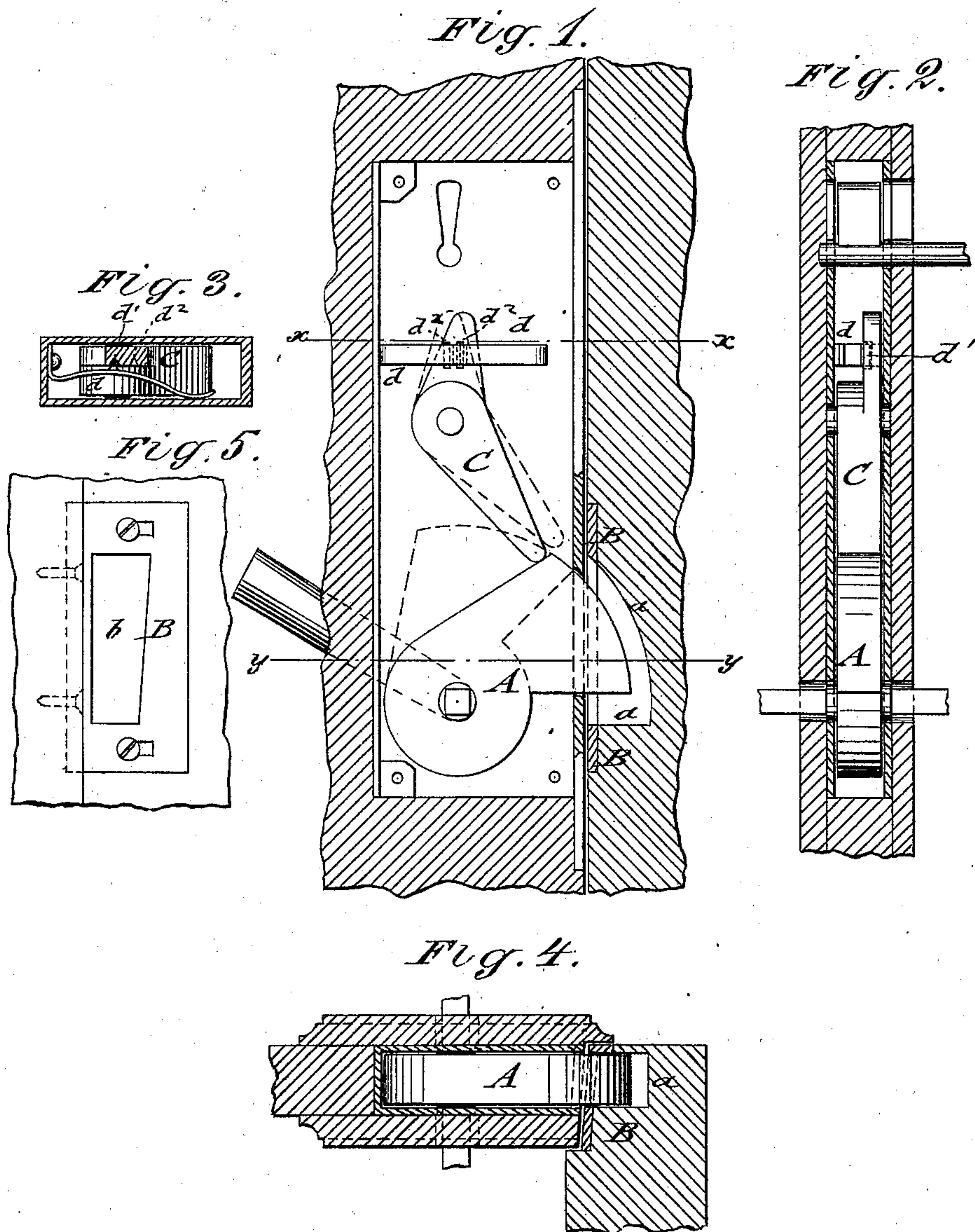


H. BERGMAN.
Door and Window Fastening.

No. 199,685.

Patented Jan. 29, 1878.



WITNESSES:
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UNITED STATES PATENT OFFICE.

HJALMAR BERGMAN, OF STOCKHOLM, SWEDEN.

IMPROVEMENT IN DOOR AND WINDOW FASTENINGS.

Specification forming part of Letters Patent No. **199,685**, dated January 29, 1878; application filed October 17, 1877.

To all whom it may concern:

Be it known that I, HJALMAR BERGMAN, of Stockholm, in Sweden, have invented a new and Improved Door and Window Lock, of which the following is a specification:

In the accompanying drawings, Figure 1 represents a sectional side elevation of my improved door and window lock. Figs. 2, 3, and 4 are vertical, transverse, and horizontal sections of the same, the horizontal sections being taken, respectively, on lines *x x* and *y y*, Fig. 1. Fig. 5 is a front view of the recessed face-plate of the jamb.

The invention relates to and consists in a novel device by which the door is pressed and tightly closed against the jamb; also, in a peculiar latch or segmental bolt for holding the locking device in the required position, all as hereinafter more fully described and claimed.

The construction and arrangement of parts are as follows:

Referring to the drawings, A represents a segmental bolt that is keyed to the spindle of my improved door or window lock, which spindle is operated by exterior knobs, lever-handles, or other suitable devices. The bolt A is either thrown by turning the spindle into a mortise, *a*, of the door or window jamb, or withdrawn therefrom, according as the door or window is to be closed or opened. The mortise *a* is provided with a recessed face-plate, B, that may be accurately adjusted to the bolt by means of slots and fastening-screws, to provide for any change in the door or window by the drying of the wood; or the face-plate may be directly fastened to the jamb and supported by a flange in the recessed portion of the same.

The face-flange has a recess, *b*, which has at that side against which the bolt bears a slight inward inclination, as shown in Fig. 5, so that the bolt, in closing, passes along the inclined side and presses the door or window inwardly,

to form a tight and intimate contact with the casing by means of this simple arrangement.

When the bolt is thrown into the face-plate the door may be locked by placing a fulcrumed latch, C, over the upper straight edge of the bolt, which is accomplished by an inverted key engaging the upper end of the latch C, so as to bring the rounded-off lower part from the dotted open position, that admits the swinging of the bolt clear of the latch, into the closed position on the bolt, as shown in Fig. 1. By turning the key in opposite direction, the latch is returned into the position shown by dotted lines, so as to admit the withdrawing of the bolt and the opening of the door.

The position and extent of motion of the latch C are controlled by a spring, *d*, that enters by a projection or tooth, *d*¹, into the grooves *d*² of the upper arm of the latch, as shown in Figs. 1, 2, and 3, so as to retain thereby the latch whether it is thrown into position to bear on the bolt or to release the same.

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

1. The face-plate having a slot or recess, with inclined side or edge, to adapt it to cause a door to close tightly when the latch or bolt is turned or forced down, as shown and described.

2. In a door and window lock, the combination of a segmental bolt of the knob-spindle with a fulcrumed latch, carried by a key over the bolt or clear of the same, the latch being locked in either position by a toothed spring entering grooves of the upper arm of the latch, substantially in the manner and for the purpose set forth.

HJALMAR BERGMAN.

Witnesses:

EMIL WIDBERG,
L. A. GROTH.