

No. 669,365.

Patented Mar. 5, 1901.

H. LUTTS.
WINDOW FASTENING.

(Application filed Apr. 16, 1900.)

(No Model.)

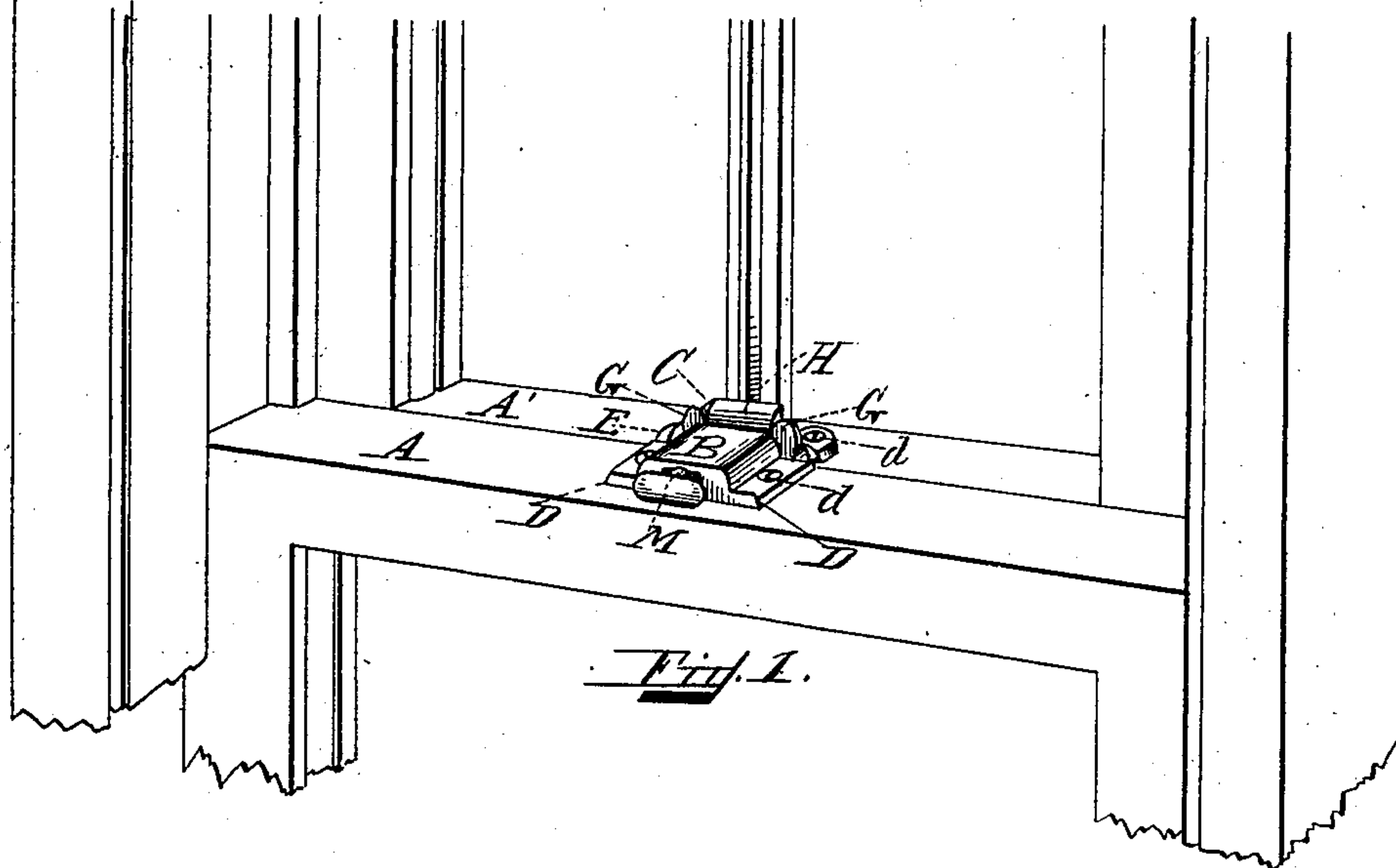


Fig. 1.

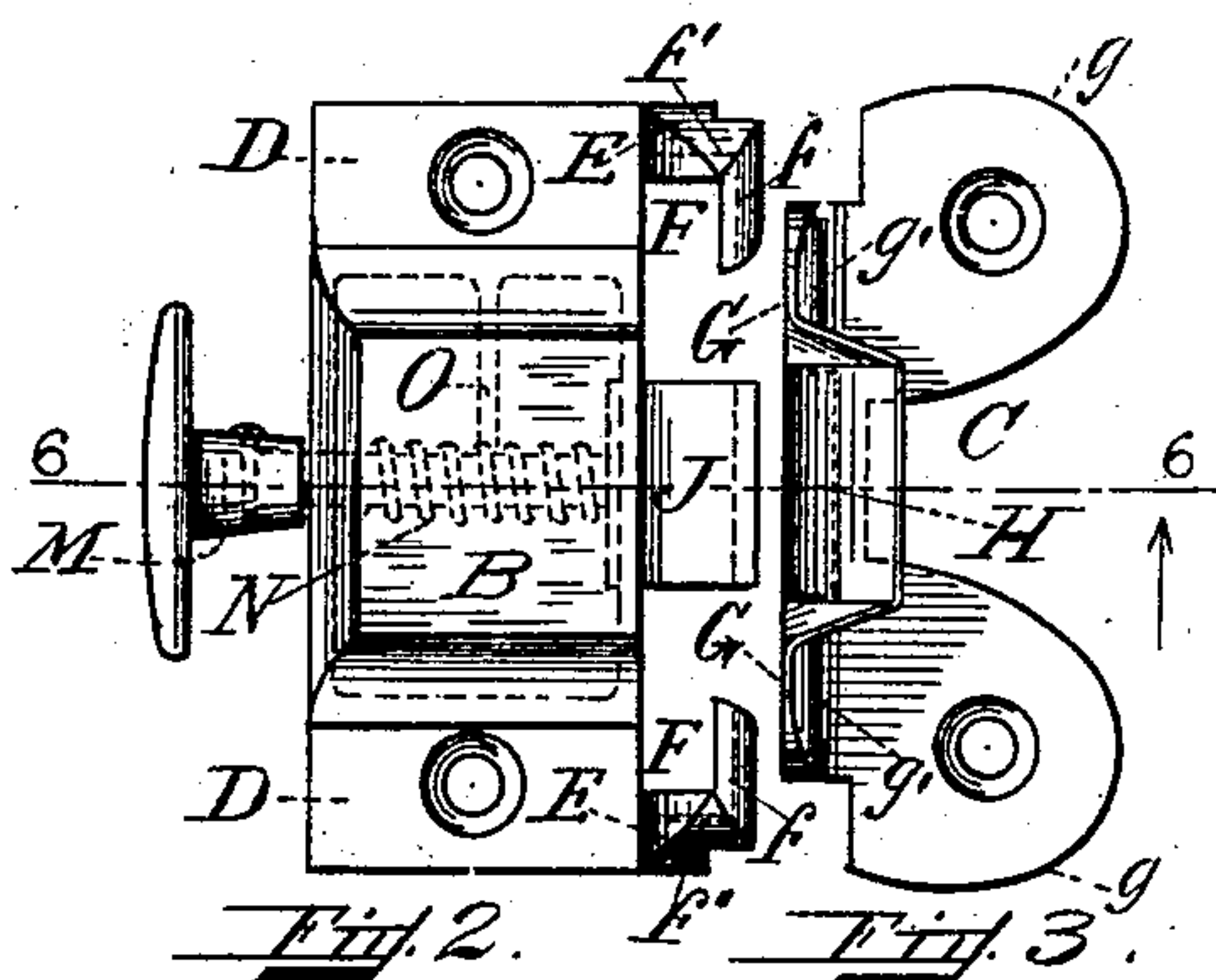


Fig. 2.

Fig. 3.

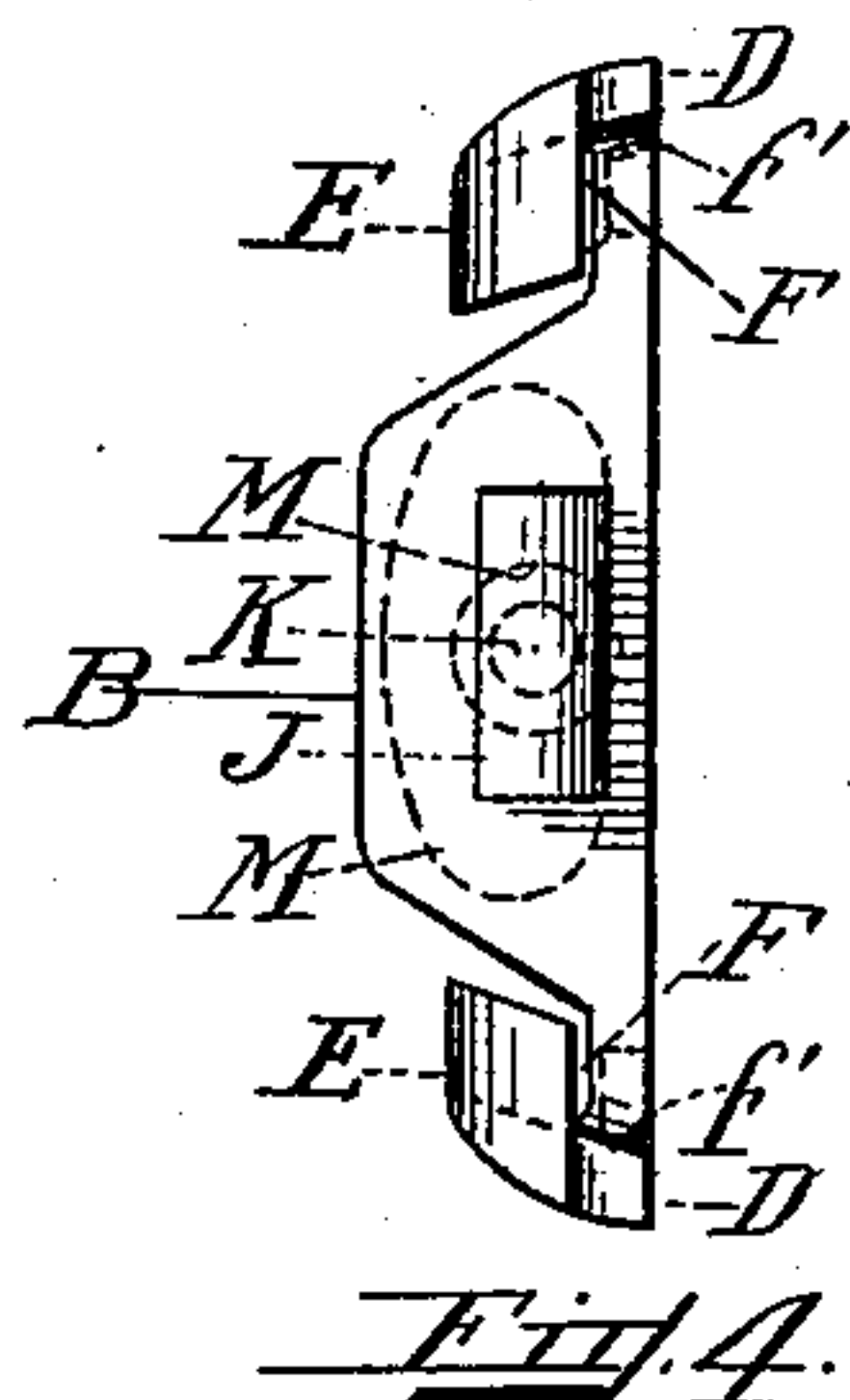


Fig. 4.

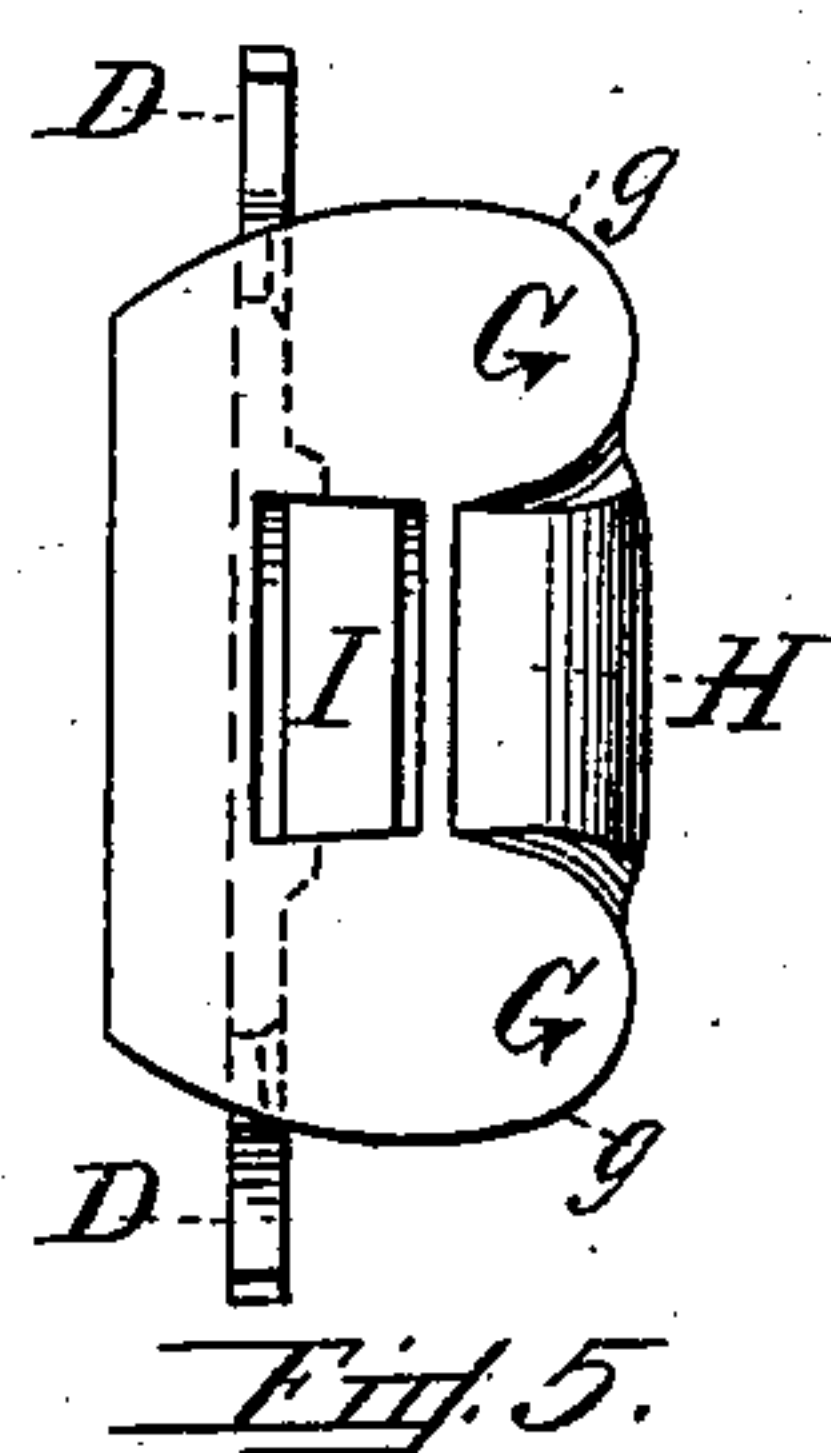


Fig. 5.

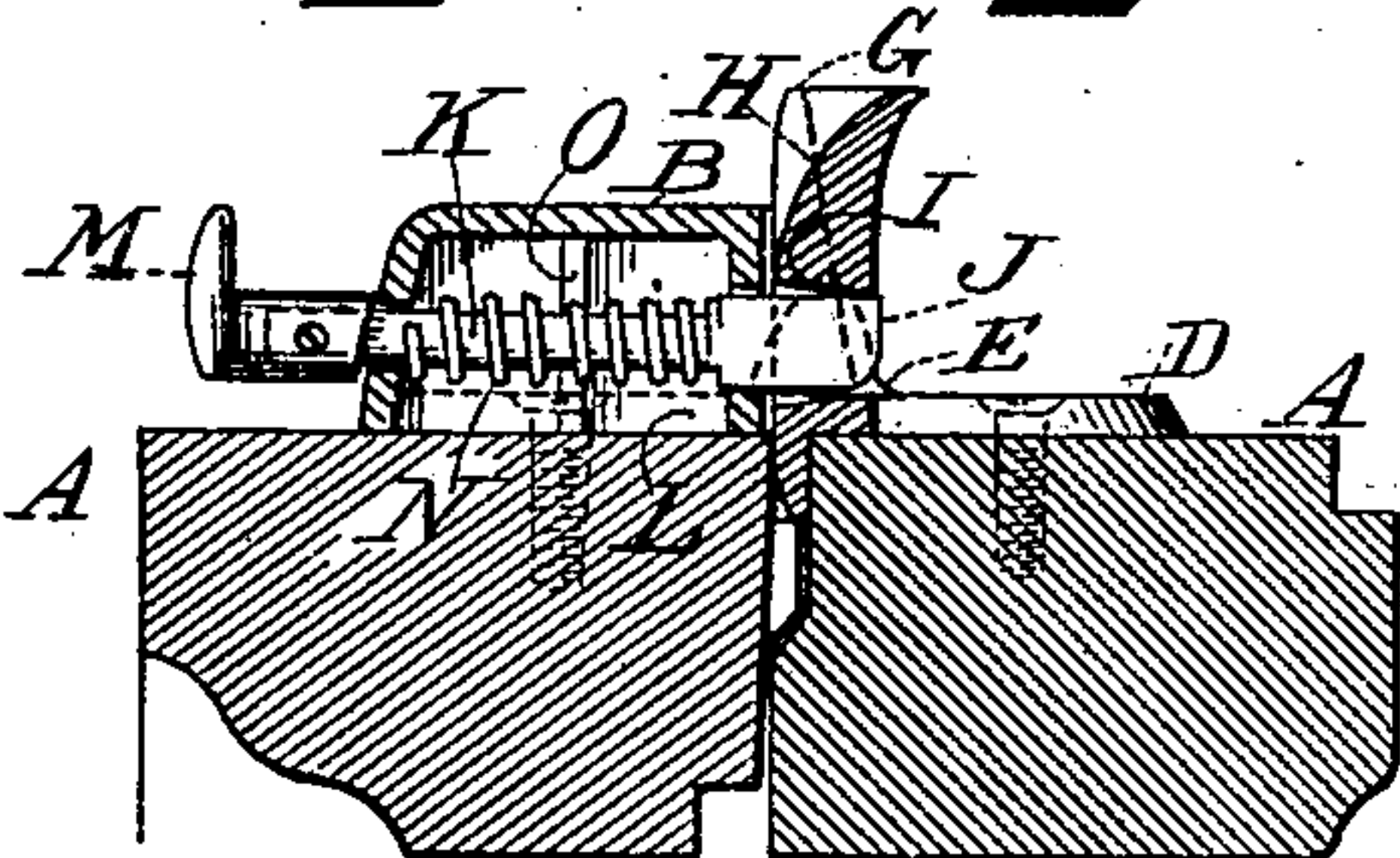


Fig. 6.

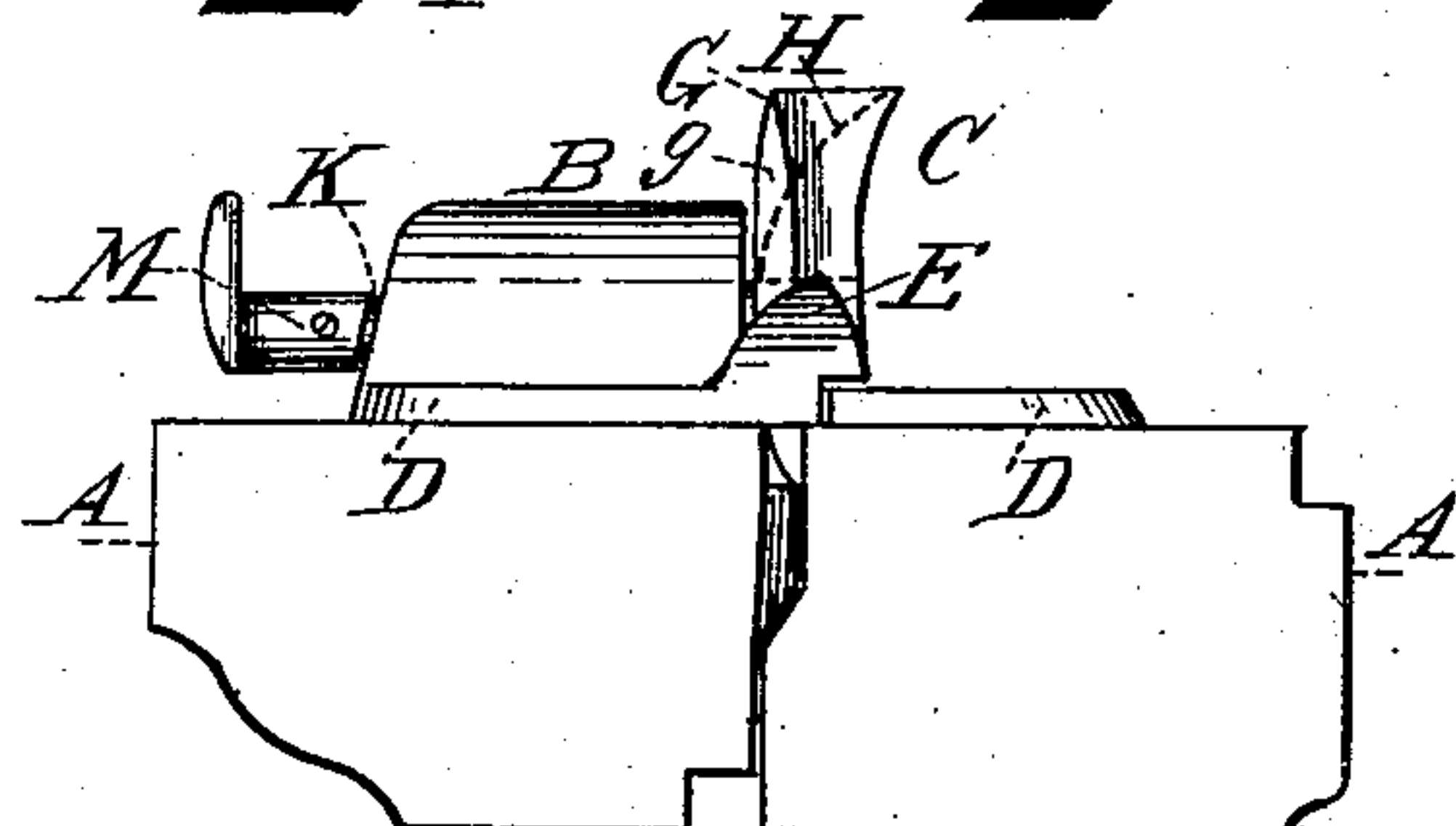


Fig. 7.

Witnesses:
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UNITED STATES PATENT OFFICE.

HENRY LUTTS, OF MALDEN, MASSACHUSETTS.

WINDOW-FASTENING.

SPECIFICATION forming part of Letters Patent No. 669,365, dated March 5, 1901.

Application filed April 16, 1900. Serial No. 12,988. (No model.)

To all whom it may concern:

Be it known that I, HENRY LUTTS, a citizen of the United States of America, and a resident of Malden, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Window-Fastenings, of which the following is a specification.

My invention relates to improvements in fastenings for window-sashes whereby the meeting-rails are securely locked together when the windows are closed; and the objects of my improvement are to automatically lock and also prevent lateral or vertical vibration of the sashes and by its attached position to insure non-accessibility from the exterior, altogether an efficient and inexpensive construction. I attain these objects by the mechanism illustrated in the annexed drawings, forming a part of this specification, wherein—

Figure 1 is a perspective view of the window meeting-rails with my improved fastening thereto secured. Fig. 2 illustrates a plan of the fastening, with its internal construction in dotted lines. Fig. 3 is a similar view showing the catch in juxtaposition, but not embracing the bolt. Fig. 4 exhibits an elevation of the face of the fastening, Fig. 5 being a like view of the catch, exposing the aperture receiving the bolt; Fig. 6, a vertical longitudinal section of the assembled parts locking the meeting-rails against vertical and lateral movement, and Fig. 7 a side elevation of the bolt and catch organized as in Fig. 6.

Corresponding letters of reference designate similar features throughout the several views, referring to which—

A A' are the inner and outer meeting-rails, respectively, of a window-frame, the former bearing the fastening B and the latter upholding the catch C, which receives the bolt when thrown. The ledges by which the fastening is secured to said rails by screws *d d* appear at D, and each terminates at the rearward edge in the right and left projecting angle-bosses E E, which are in part turned inwardly, so as to form the reëntering angles F F, Fig. 2, receiving the wedges G G, forming a part of the bolt-catch C. The two inner walls of each diverge as they drop to the base of the said ledges, as shown by dotted lines *ff* and *f' f'*, in a manner to form inclines

which ride over the rounded edges of the vertical wedges G G as the sashes are drawn together. The triple inclined surfaces *g g* and *g' g'* of said wedges acting in conjunction with the inclines *ff* prevent any vibration of the closed sashes either laterally or vertically. To facilitate the engagement of the bolt, the catch has a curved run H leading to the socket I, which receives the bolt J when locking the sashes, the lower edge of the face of the bolt being rounded and provided integrally with the stem K, passing transversely through the chamber L. Said stem is provided with the attached finger-piece or pull M, the bolt being actuated by the helical expanding-spring N to enter the socket I and retracted or disengaged therefrom by said pull. The half-way partition O within the chamber L governs the retraction of the bolt and perpetuates the life of the spring by limiting its retractile action, while the space P, adjacent to and beneath the run H, Fig. 3, admits the vertical mullion of the outer meeting-rail A, said mullion thus preventing access to the bolt from without, the organized fastening being particularly adapted to sashes of this design.

Having thus described the operation and construction of my improved window-fastening, I desire not to be confined to the strict interpretation as herein set forth, but may adopt such equivalents therefor as would come within the fair scope and spirit of my invention.

I claim—

1. In a window-sash fastening the bolt-catch provided with a socket I, having converging upper and under walls adapted to embrace the bolt in a manner to obviate vibration or rattling of the window vertically when locked, the recess P, arranged to receive the mullion of the outer meeting-rail, and means coacting with the inclines of the fastening B, to prevent horizontal vibration of the closed window-frame substantially in the manner specified.

2. The combination in a window-locking mechanism of the fastening B, having a closed chamber, means therein to limit the retractile action of the mechanism locking the sashes together, the projecting angle-bosses provided each with two inclined walls, the bolt-catch C, having triple wedging-surfaces coacting with

said inclined walls and with the bolt, the bolt-socket having inclined surfaces, and the recess adapted to receive the mullion of the outer sash, substantially in the manner set
5 forth.

3. The bolt-catch having duplicate wedges G, each provided with triple inclined wedg-
ing-surfaces adapted and constructed to in-
terlock with the reëntering angles of the fas-
10 tening B, to effect alinement of the meeting-
rails, the converging walls of the socket, and

the recess P, contiguous thereto arranged to receive the mullion of the outer sash in a position to protect the socket and the bolt therein from exterior manipulation, substantially 15 as specified.

Signed by me at Boston, Massachusetts, this
13th day of April, 1900.

HENRY LUTTS.

Witnesses:

JENNETTE H. BRUCE,
CHAS. HALL ADAMS.