

No. 775,186.

PATENTED NOV. 15, 1904.

C. D. LOVELACE.
WINDOW OR DOOR FASTENER.
APPLICATION FILED JAN. 16, 1904.

NO MODEL.

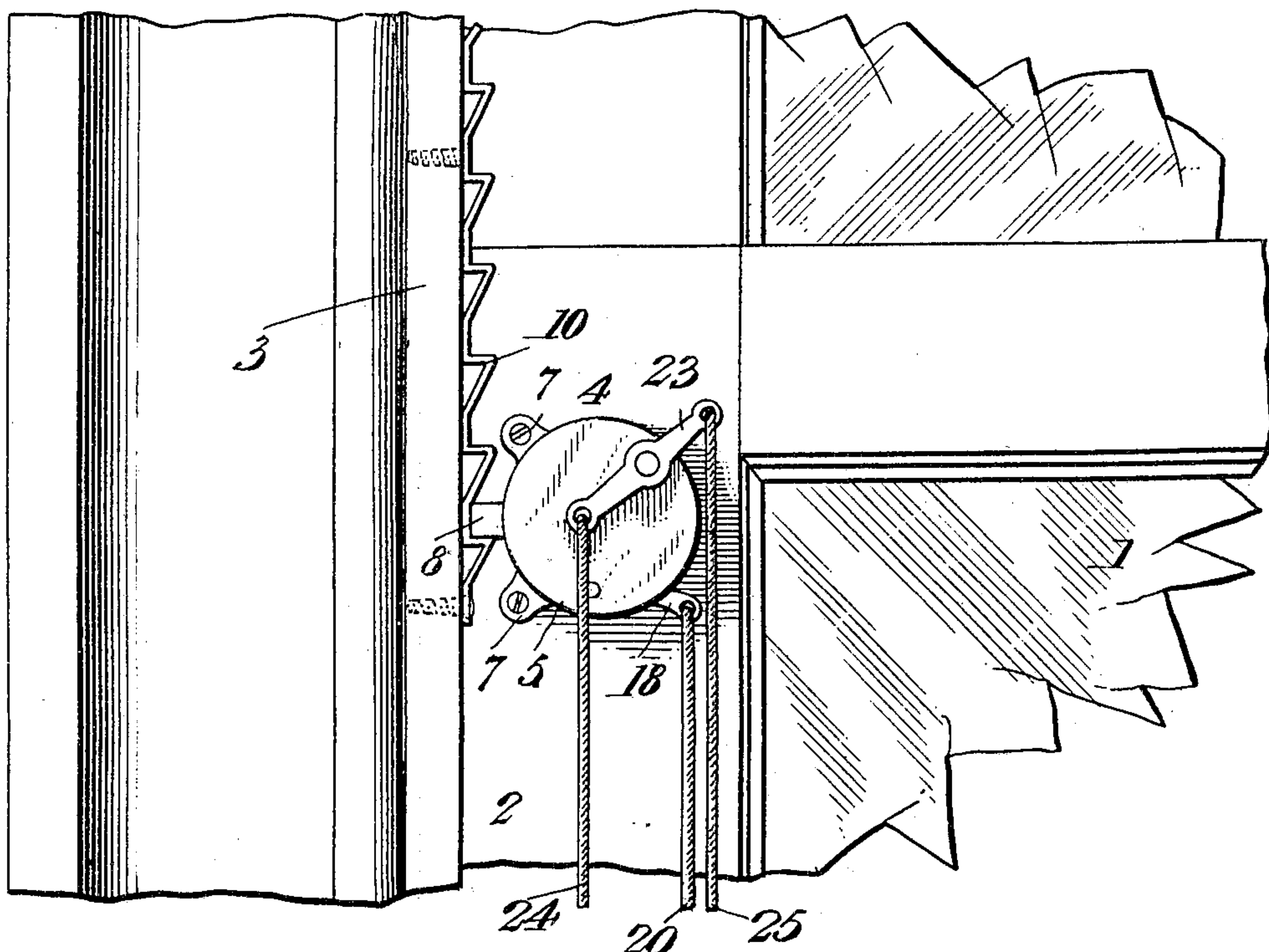


Fig. 1.

Fig. 2.

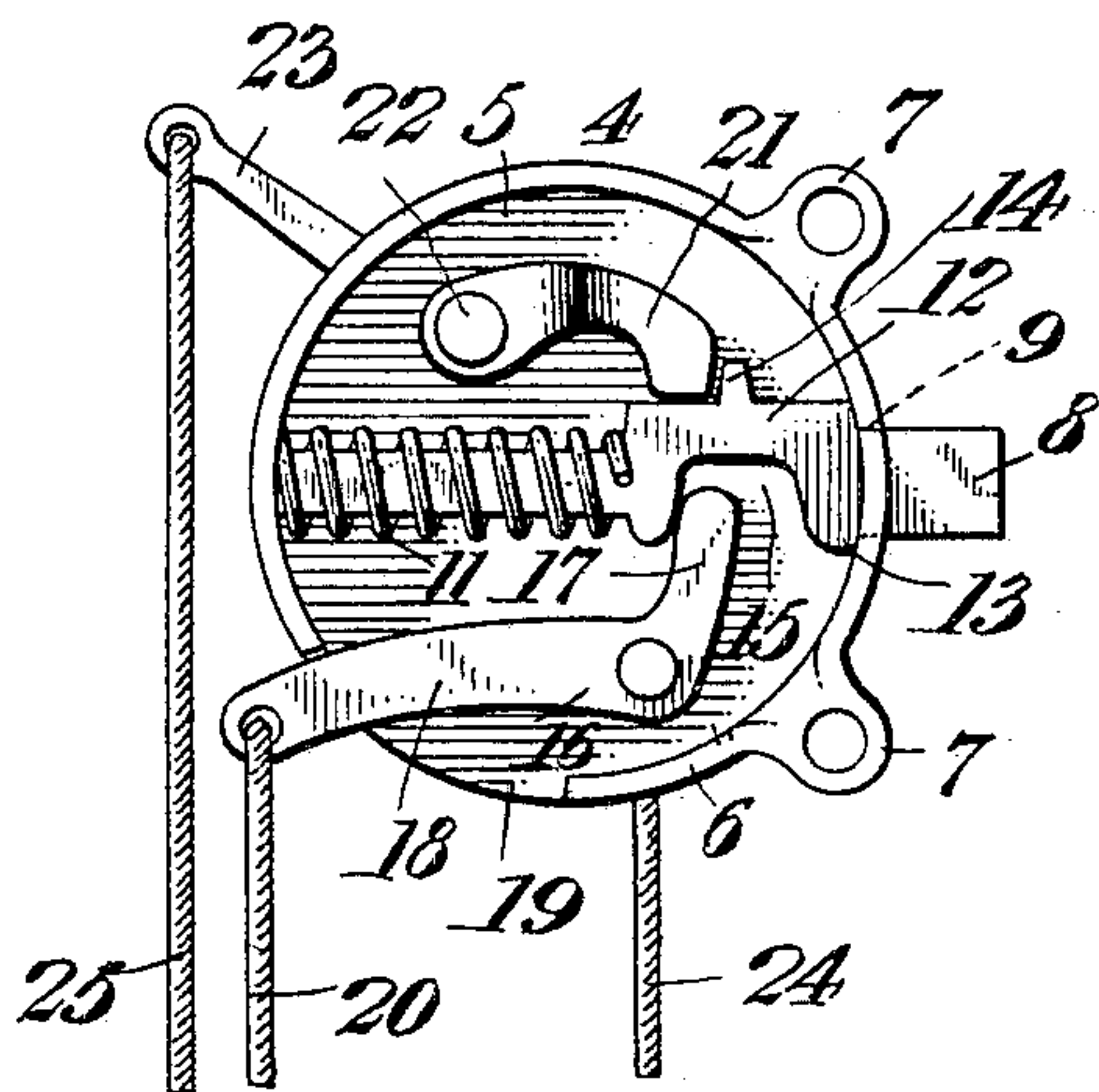
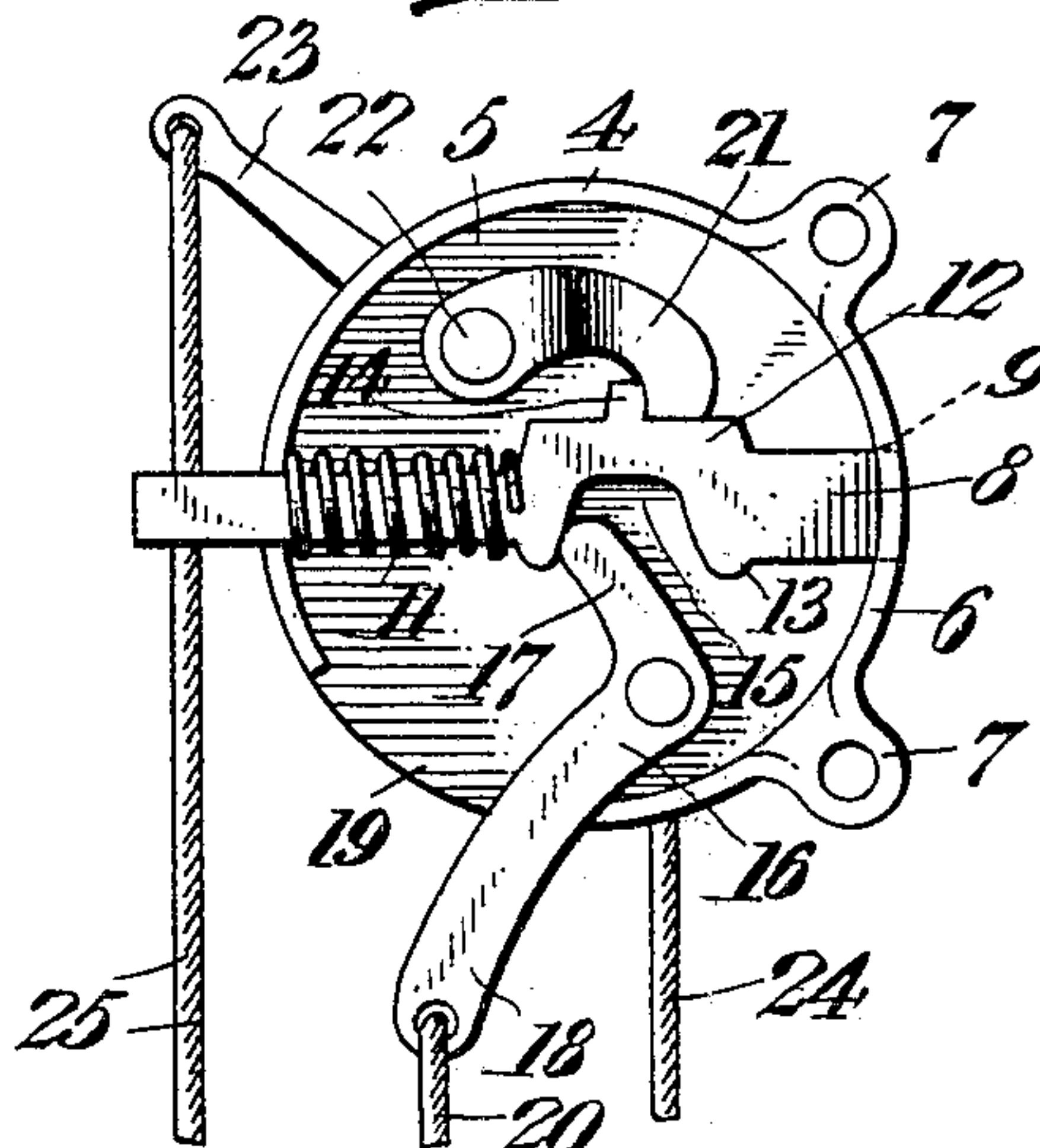


Fig. 3.



Witnesses
E. H. Stewart
A. J. Emore

Charles D. Lovelace
by *C. A. Snow & Co.*
Attorneys

Inventor

UNITED STATES PATENT OFFICE.

CHARLES D. LOVELACE, OF OMAHA, NEBRASKA.

WINDOW OR DOOR FASTENER.

SPECIFICATION forming part of Letters Patent No. 775,186, dated November 15, 1904.

Application filed January 16, 1904. Serial No. 189,341. (No model.)

To all whom it may concern:

Be it known that I, CHARLES D. LOVELACE, a citizen of the United States, residing at Omaha, in the county of Douglas and State of Nebraska, have invented a new and useful Window or Door Fastener, of which the following is a specification.

My invention relates to door and window fasteners, and has for its objects to produce a simple inexpensive device of this character which may be readily applied and operated and one in which the bolt may in practice be locked in its engaging or non-engaging position.

To these ends the invention comprises the novel features of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a side elevation of a portion of a window and its casing, showing my invention applied thereto. Fig. 2 is a rear view of the improved lock, showing the position of the parts with the bolt in engaging position. Fig. 3 is a similar view showing the bolt in non-engaging position.

Referring to the drawings, 1 designates a window, 2 its sash, and 3 the sash frame or casing, these parts being of the usual or any preferred construction, inasmuch as they constitute no part of my invention.

The protecting case or shell 4, constituting the support of my improved fastener, is preferably stamped or otherwise formed from a single piece or blank of sheet metal and of the form herein shown, consisting of a front wall 5, bounded by a marginal flange constituting a side wall 6, having horizontal laterally-projecting perforated ears 7 for the reception of screws or similar devices by which the casing is attached to the window-sash 2.

Disposed within the casing 4 is an engaging bolt 8, mounted for longitudinal reciprocation in oppositely-disposed guide-openings 9, formed through the side walls 6. This bolt, which in practice engages a rack 10 or its equivalent attached to or otherwise provided on the sash-casing 3 for locking the window against movement, is normally pressed to distended or engaging position by means of an expanded spring 11, mounted upon the rear

portion of the bolt and bearing at one end against the wall 6 and at its opposite end against a bearing-shoulder produced by an offset portion or enlargement 12, formed upon the bolt and constituting at its forward end a stop 13 for engagement with the casing 4 to limit the outward or engaging movement of the bolt, there being provided upon the normally upper edge of the enlargement adjacent to its longitudinal center a lug or projection 14, constituting a stop or abutment, and between its ends with a downwardly-opening socket or recess 15, the purpose of which latter will presently appear.

Pivoted within the casing 4 to the inner face of wall 5 is an actuating member 16, preferably in the form of a bell-crank lever having the outer end of its shorter arm 17 disposed within the recess 15 and its longer arm 18 extended through and working in a slot or opening 19, provided in the wall 6, the arm 18 being perforated at its outer end for the attachment of a cord or analogous traction element 20. It may here be said that the bolt will be normally held in locking engagement with the rack 10 by means of the spring 11 and that when in this position downward traction upon the cord 20 serves to rock the actuating member or lever on its pivot and through the medium of the arm 17, engaging the bolt at the rear end of recess 15, to move the bolt to retracted or non-engaging position against the action of the spring, which is thereby compressed.

For locking the bolt against movement to maintain it in either its engaging or non-engaging position I provide a pivoted locking member or dog 21, preferably in the form of a hook fixed upon the end of a rotary pintle 22, extended through the wall 5, and having fixed upon its outer end an operating member or bar 23, engaged at its center with the pintle and having oppositely-extending arms perforated at their outer ends for the attachment of traction cords or elements 24 25, by which the member 23 may be rocked for moving the locking device to and from locking position. The locking member 21 is adapted in practice to engage the lug or projection 14, carried by the bolt, for fixing the latter against move-

ment and maintaining it in either of its positions, it being understood, of course, that when the member is engaged in rear of the lug, as seen in Fig. 2, the bolt will be secured
5 in distended or locking position, and when engaged in advance of the lug, as seen in Fig. 3, the bolt will be locked in retracted or non-engaging position, and, further, that the locking member or dog 21 is swung to position for releasing the bolt by downward traction on the
10 cord 25 and to position for engaging or locking the bolt by traction on cord 24.

From the foregoing it will be seen that I produce a comparatively simple inexpensive
15 device which is admirably adapted for the attainment of the ends in view; but it is to be understood that I do not wish to limit myself to the precise details herein set forth, inasmuch as minor changes may be made therein
20 without departing from the spirit of the invention.

Having thus described my invention, what I claim is—

1. The combination with a support, of a longitudinally-slidable bolt carried thereby, said
25 bolt being movable to engaging or non-engaging position, means for automatically moving

the bolt to one of said positions, means for moving the bolt to the other position, a locking member for locking the bolt in either position, an operating member connected with the locking member, and a pair of opposed traction elements connected with the operating member.

2. The combination with a support, of a longitudinally-slidable bolt carried thereby, said bolt being movable to engaging or non-engaging position, means for automatically moving the bolt to one of said positions, a pivoted actuating-lever for moving the bolt to the other position, a traction element connected with said lever, a locking member for locking the bolt in either position, an operating member connected with the locking member, and a pair of opposed traction elements connected with the operating member.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

CHARLES D. LOVELACE.

Witnesses:

W. B. MARTINE,
W. C. MATHES.