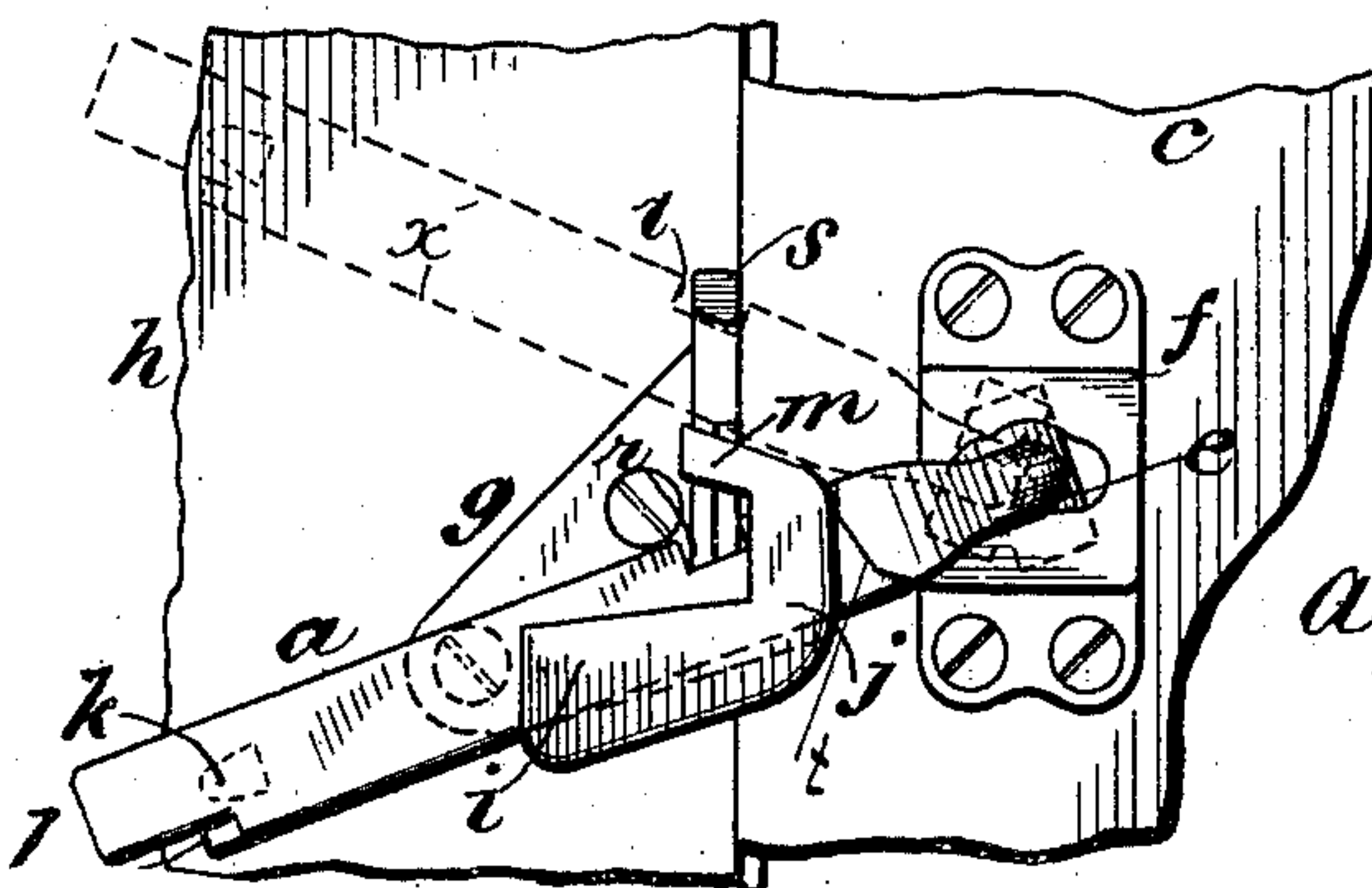
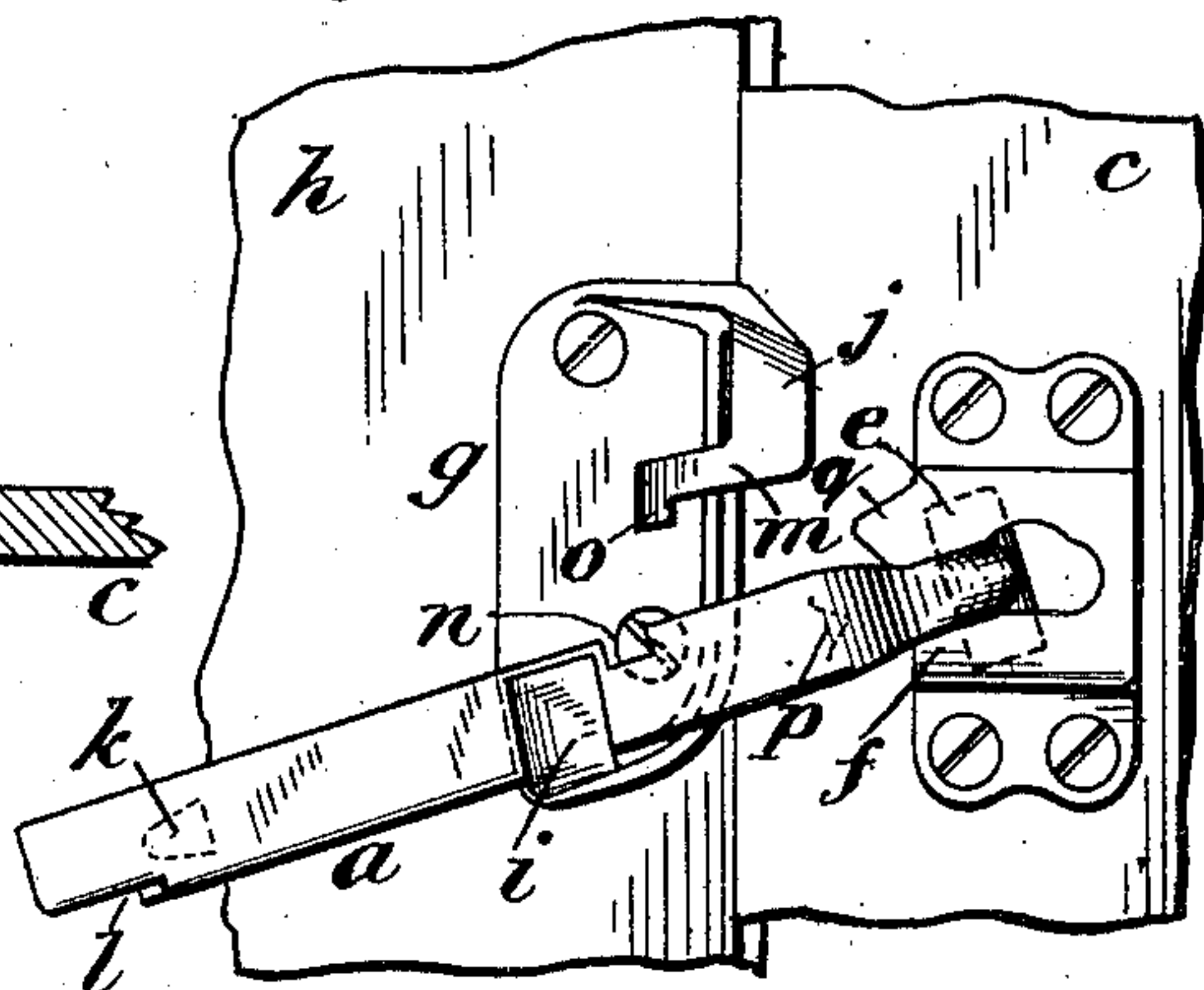
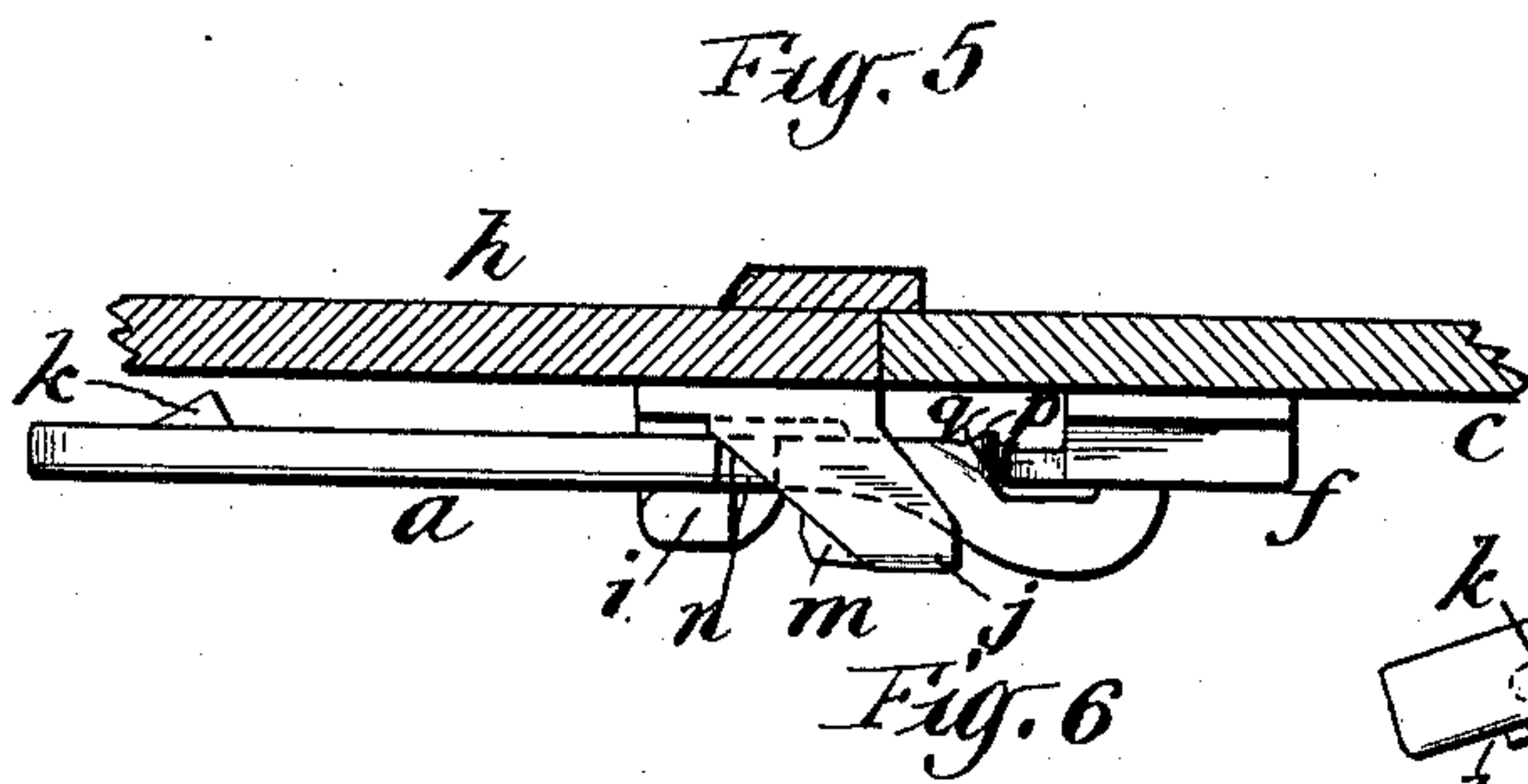
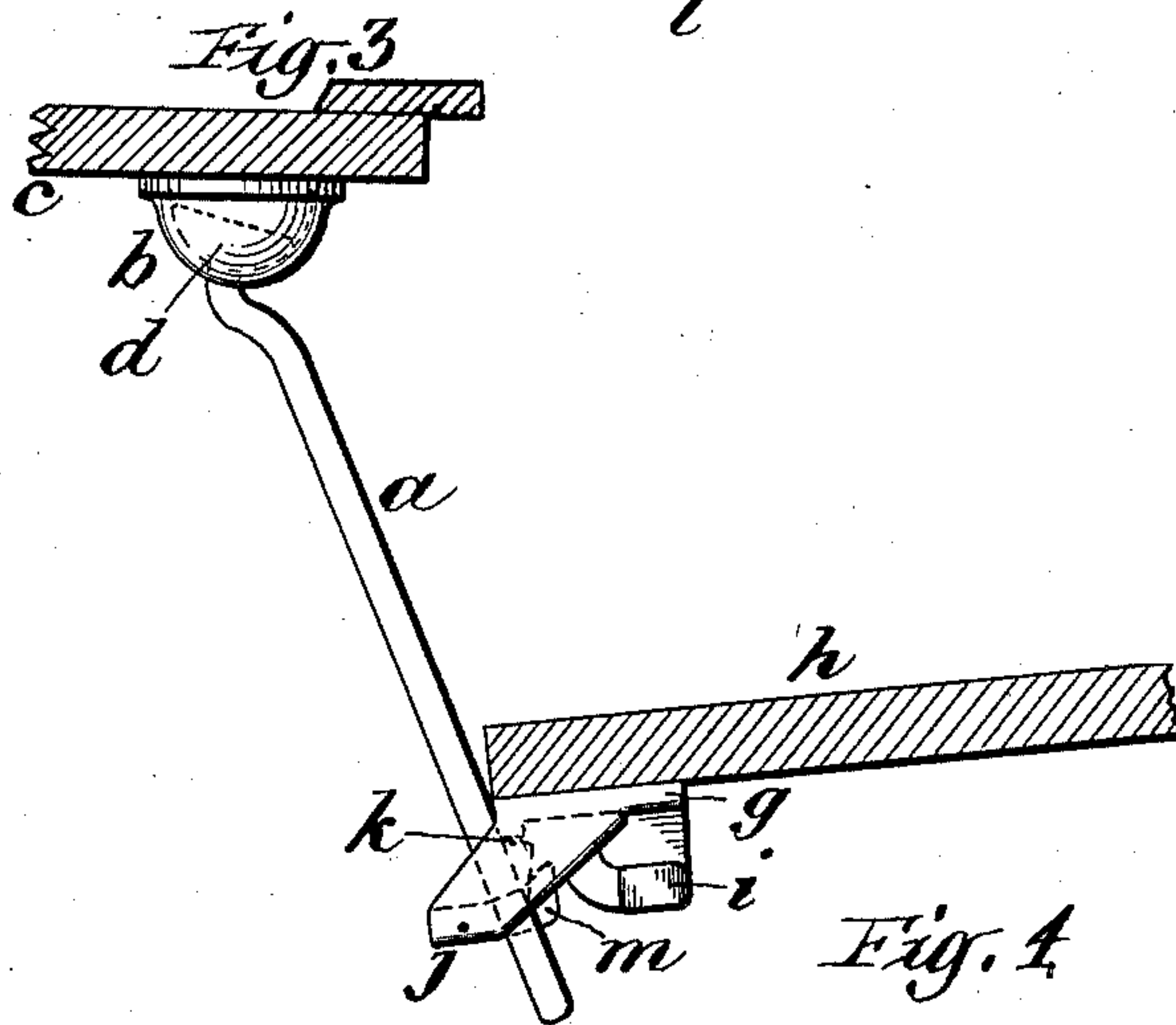
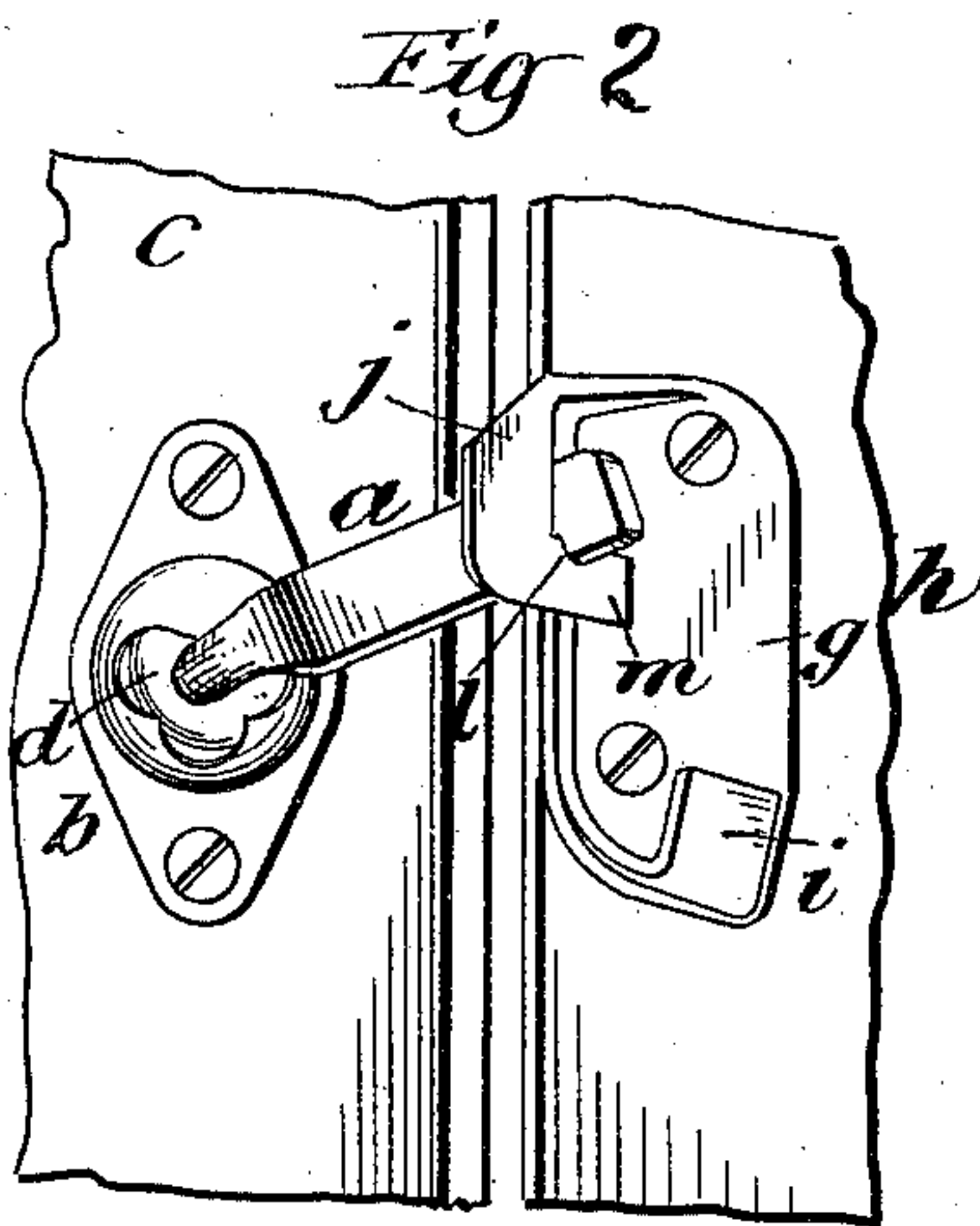
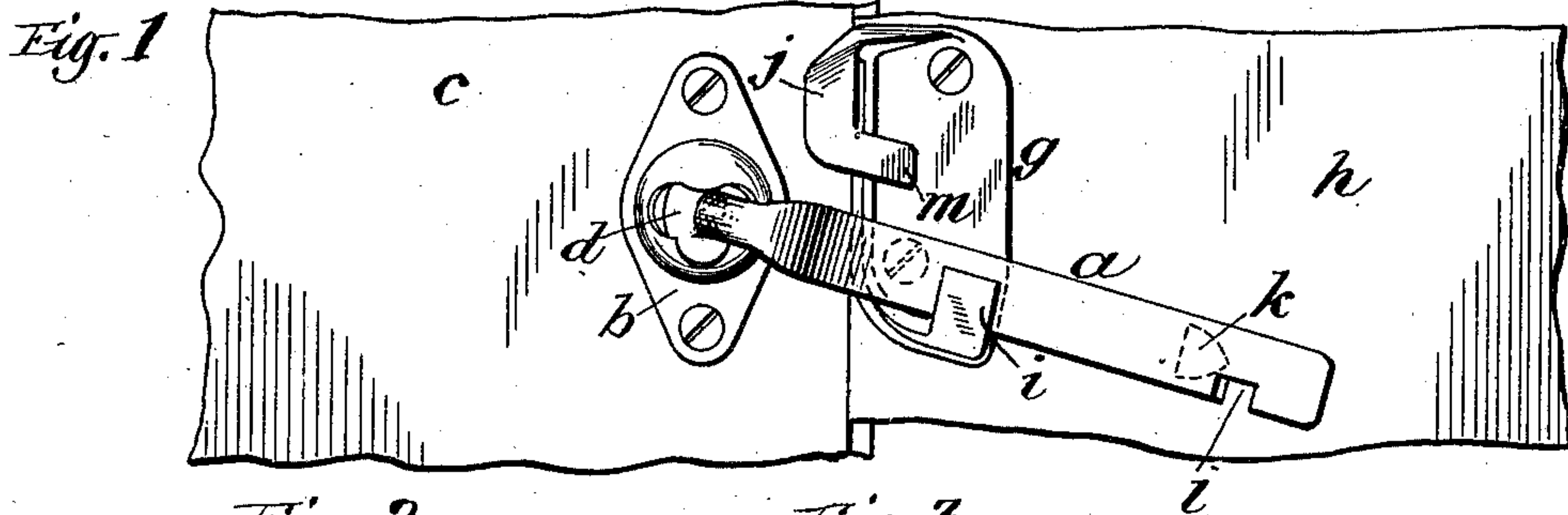


A. SHEDLOCK.
DOOR FASTENER.

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976,403.

Patented Nov. 22, 1910.



WITNESSES:

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ALFRED SHEDLOCK, OF CANNON STATION, CONNECTICUT.

DOOR-FASTENER.

976,403.

Specification of Letters Patent.

Patented Nov. 22, 1910.

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To all whom it may concern:

Be it known that I, ALFRED SHEDLOCK, a citizen of the United States, and a resident of Cannon Station, State of Connecticut, have invented Improvements in Door-Fasteners, of which the following is a specification.

The object of the door fastener and guard forming the subject of this invention is to provide a simple and effective means for holding a door securely closed and adapted to hold the door in partly open position, the construction and arrangement of the parts being such that the movable bar member, attached to the door jamb, upon being released from its holding catch, attached to the door, may be passed into the guard device for holding the door partly open or be moved away from the door to permit the door to be fully opened.

In the accompanying drawings:—Figure 1 illustrates, in elevation, an embodiment of the invention acting as a door fastener or bolt; Fig. 2 is a similar view showing the device as a guard, holding the door partly open; Fig. 3 is a plan view of Fig. 2; Fig. 4 is a view similar to Fig. 1, showing the device with modifications applied to a door reversely hung to that shown in Fig. 1; Fig. 5 is a plan view of Fig. 4, and Fig. 6 shows, in elevation, the device with other modifications.

As shown in the drawings this door fastener and guard consists of three parts which may be cast or otherwise formed in the desired shapes and applied to use without any tooling. The movable locking part consists of a plain bar *a* provided at one end with a head engaged by a socket piece *b*, which by means of screws is secured to the door jamb *c*. In Figs. 1, 2 and 3 the head *d* is spherical and seats in a correspondingly shaped recess in the socket piece *b* so as to constitute a universal connection of the bar *a* with the door jamb, the parts being so made that the bar will hang vertically against the jamb when not in use. In the other views of the drawings the head of the bar *a* is transversely arranged, as a T head *e* and the sockets *f* are provided with rectangular recesses in which the T heads are free to slide and turn. All of the sockets have slots or openings in their front sides through which the bars extend and through which the heads *d* and *e* cannot pass. The other part of the device comprises a plate *g*, secured to the

door *h*, by screws, an upwardly extending hook or catch *i* behind which the bar *a* is passed to lock the door closed, as shown in Figs. 1, 4, 5 and 6, and a guard arm *j* above the hook or catch *i* behind which the bar *a* is passed when the door is to be held partly open, the bar *a* being provided with a lug *k*, which, by contacting with the edge of the plate *g*, limits the distance the door can be opened, as clearly shown in Fig. 3; and to prevent the door closing, when so held partly open, a notch or recess *l* formed in the side of and near or at the end of the bar *a* engages with a projection *m* extending inwardly from the arm *j*. This projection *m* is so formed and bears such relation to the hook or catch *i*, as regards position, that there is just sufficient space between it and the plate *g* for the bar to pass behind the arm, and the opening between it and the hook or catch *i* is sufficient for the passage of the bar *a* in its lateral movements toward and from the door.

Figs. 4 and 5 besides illustrating the square socket and T head modification show a notch *n* in the upper edge of the bar *a* which has to aline with a lug *o* extending downwardly from the projection *m* of the arm *j* before the bar *a* can be moved laterally away from the part of the device attached to the door, and before this alinement can take place the bar *a* has to be longitudinally moved to bring its T head *e* toward the rear part of the rectangular recess in the socket *f*. Now in placing the bar against the plate *g* so that it may be passed behind the guard arm *j*, it is, during its upward movement pushed forward by a lug *p* on the bar riding along an inclined projection *q* on the socket, thus throwing the notch *n* out of alinement with the lug *o*, so that when the door is closed with the bar *a* behind the arm *j*, the bar falls down behind the hook or catch *i*, as shown at Fig. 4, and the bar has to be moved longitudinally as well as laterally to be released entirely from the holding part of the device attached to the door. The guard arm *j* with its projection *m* may extend upwardly, as shown at Fig. 6, as an extension of the hook *i*, and will in this position perform the same function with the bar *a* as in the position it occupies in the other views; but in this case the bar in being moved away from the door will pass directly upward out of the guard arm *j*, and to make said releasing movement of the bar more complex, a notch *r* in the

edge of the bar has to pass over a lug *s* located on the plate *g*, and this can only occur when the bar is longitudinally moved to bring its T head in forward position in the rectangular recess of the socket, as shown by the dotted lines *x*. From this upper position of the bar *a*, as it is moved downwardly behind the hook or catch *i*, a ledge *t* on the bar acts against the edge of the arm *j* and so longitudinally moves the bar to bring its T head in rearward position in the socket and so throw the notch *r* out of alinement with the lug *s*. When the device in this form is to act as a guard to hold the door partly open the bar *a* is placed behind the arm *j* between the upper edge of the hook *i* and the projection *m*. The stop *k* limits the distance the door can be opened, as before described, and the notch *l* of the bar engages the upper edge of the hook *i* to prevent the door closing, when so held open.

It will be observed that the movement of the bar *a* from the locking position, behind the hook *i*, to the guarding position, behind the arm *j*, is direct, that is, the bar remains in front of the door, substantially parallel therewith and giving full control over the door movements when opened to be set and held ajar. This feature is particularly prominent in the door fastener shown at Fig. 6; the bar *i* here being behind the arm *j* when the door is fully closed and locked and remains behind it when the door is opened to be placed on guard.

The movable member, hinged bar, of the device has heretofore been described and shown as being attached to the jamb and the other member attached to the door; this, by the nature of the invention, will of course be the general application of the device, as doors, by a very large majority, open inwardly, but when it is desired to apply the device to a door opening outwardly, then, without calling for any change in the construction of the device, the movable member will be attached to the door and the fixed member attached to the jamb.

I claim as my invention:—

1. In a door fastener, a bar secured at one end of the door jamb by a hinge connection, an upwardly extending hook or catch attached to the door and adapted to receive the bar when the door is closed to lock the door, and means above the hook or catch adapted to receive the bar when it is raised free of hook or catch to hold the door partly open.

2. In a door fastener, a bar secured at one end to the door jamb by a hinge connection, an upwardly extending hook or catch attached to the door and adapted to receive the bar when the door is closed to lock the door, a guard arm above the hook or catch for receiving the bar when raised out of the hook or catch and in which the bar slides

when the door is opened, and a stop on the bar for limiting the opening movement of the door.

3. In a door fastener, a bar secured at one end of the door jamb by a hinge connection, an upwardly extending hook or catch attached to the door and adapted to receive the bar when the door is closed to lock the door, a guard arm above the hook or catch for receiving the bar when raised out of the hook or catch and in which the bar slides when the door is opened, and a stop on the bar for limiting the opening movement of the door, said bar having a notch formed at or near its free end adapted to engage an extension of the guard arm to prevent the door closing when in its partly opened position.

4. A door fastener, comprising a bar having an enlargement or head at one end, a socket piece adapted to be attached to a door jamb and having a recess for reception of the head of the bar and a slot in its face through which the bar extends, constructed to provide a swiveling movement of the bar, and a holding member adapted to be attached to the door having an upwardly extending hook behind which the bar may be placed to hold the door closed, and a guard arm above the hook behind which the bar may be placed to hold the door partly open.

5. A door fastener, comprising a bar having an enlargement or head at one end, a socket piece adapted to be attached to a door jamb and having a recess for reception of the head of the bar and a slot in its face through which the bar extends, constructed to provide a swiveling and a longitudinal movement of the bar, and a holding member adapted to be attached to the door having an upwardly extending hook behind which the bar may be placed to hold the door closed and a guard arm above the hook behind which the bar may be placed to hold the door partly open, a notch on the bar, and a lug on the door member over which the notch of the bar is passed when the bar is longitudinally set to release the bar from the door member.

6. A door fastener, comprising a bar having an enlargement or head at one end, a socket piece adapted to be attached to a door jamb and having a recess for reception of the head of the bar and a slot in its face through which the bar extends, constructed to provide a swiveling and a longitudinal movement of the bar, and a holding member adapted to be attached to the door having an upwardly extending hook behind which the bar may be placed to hold the door closed and a guard arm above the hook behind which the bar may be placed to hold the door partly open, a notch on the bar, and a lug on the door member over which the notch of the bar is passed when the bar is longitudinally set to release the bar from

the door member, and means for moving the notch of the bar out of alinement with the lug when the bar is manipulated relatively to the hook.

5 7. A door fastener comprising a bar having a hinge connection at one end, a hook or catch adapted to receive the bar when the door is closed, to lock the door, a guard arm included in a plane, substantially parallel to
10 the door, including the hook or catch, and adapted to receive the bar when it is moved in said plane from behind the hook and to permit the bar to slide in it when the door is opened, said bar then assuming an angular
15 position to the door, and provision for preventing the disengagement of the bar from the guard arm when in said angular position.

20 8. A door fastener, comprising a bar having an enlargement or head at one end, a socket piece adapted to be attached to a door jamb and having a recess for reception of the head of the bar and a slot in its face

through which the bar extends, constructed to provide a swiveling and a longitudinal 25 movement of the bar, and a holding member adapted to be attached to the door having an upwardly extending hook behind which the bar may be placed to hold the door closed, said bar then being substantially parallel to 30 the door, and a guard arm behind which the bar, when moved in the plane parallel to the door and free of the hook, may be placed to hold the door partly open, a notch on the bar, and a lug on the door member over 35 which the notch of the bar is passed when the bar is longitudinally set to release the bar from the door member.

In testimony whereof, I have hereunto subscribed my name this 11 day of October, 40 1909.

ALFRED SHEDLOCK.

Witnesses:

J. C. McKIBBIN,
JAMES A. HUDSON.