

(No Model.)

C. ALTEMAN & D. C. C. MACDONALD.
SASH FASTENER.

No. 472,325.

Patented Apr. 5, 1892.

Fig.1.

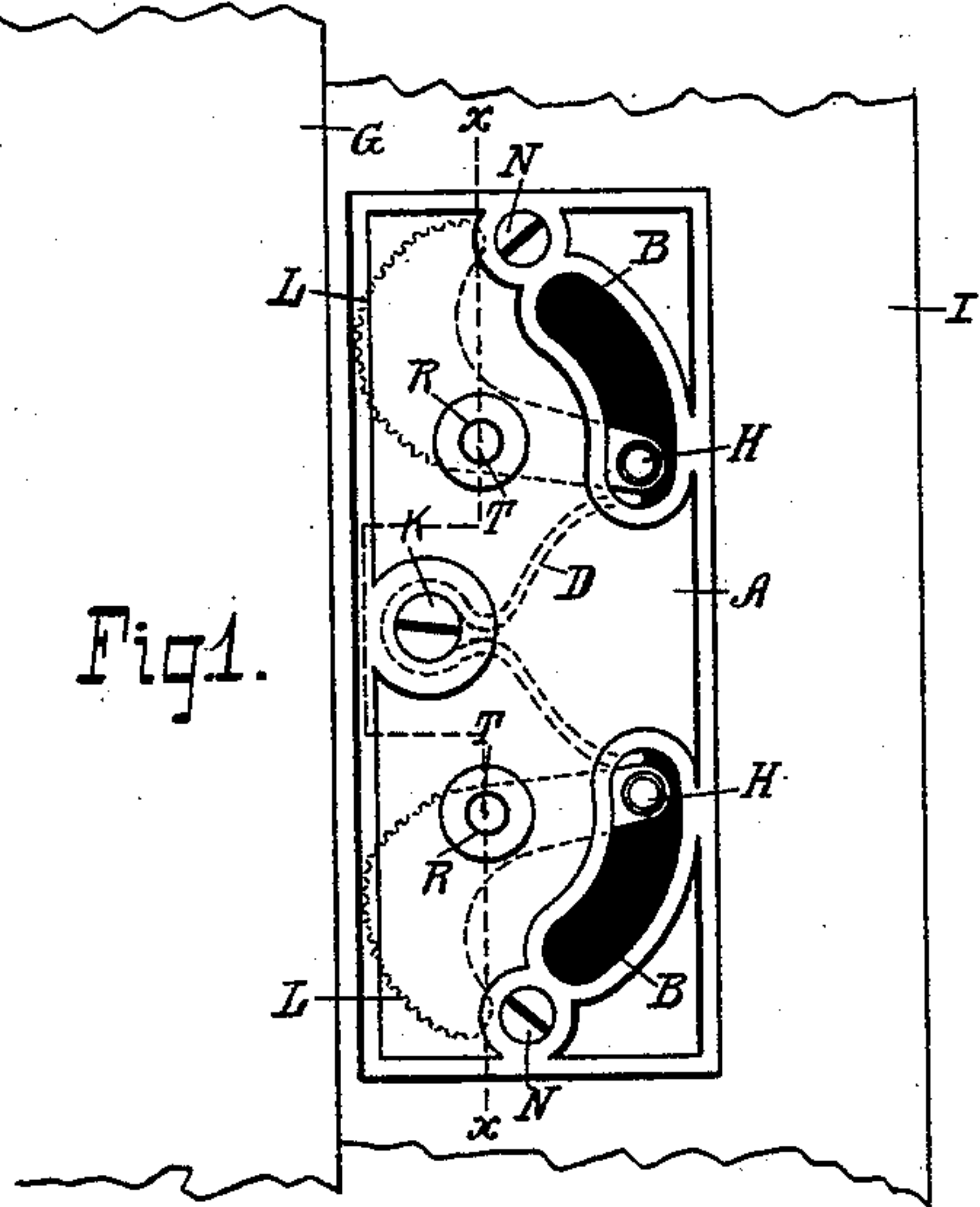


Fig.2.

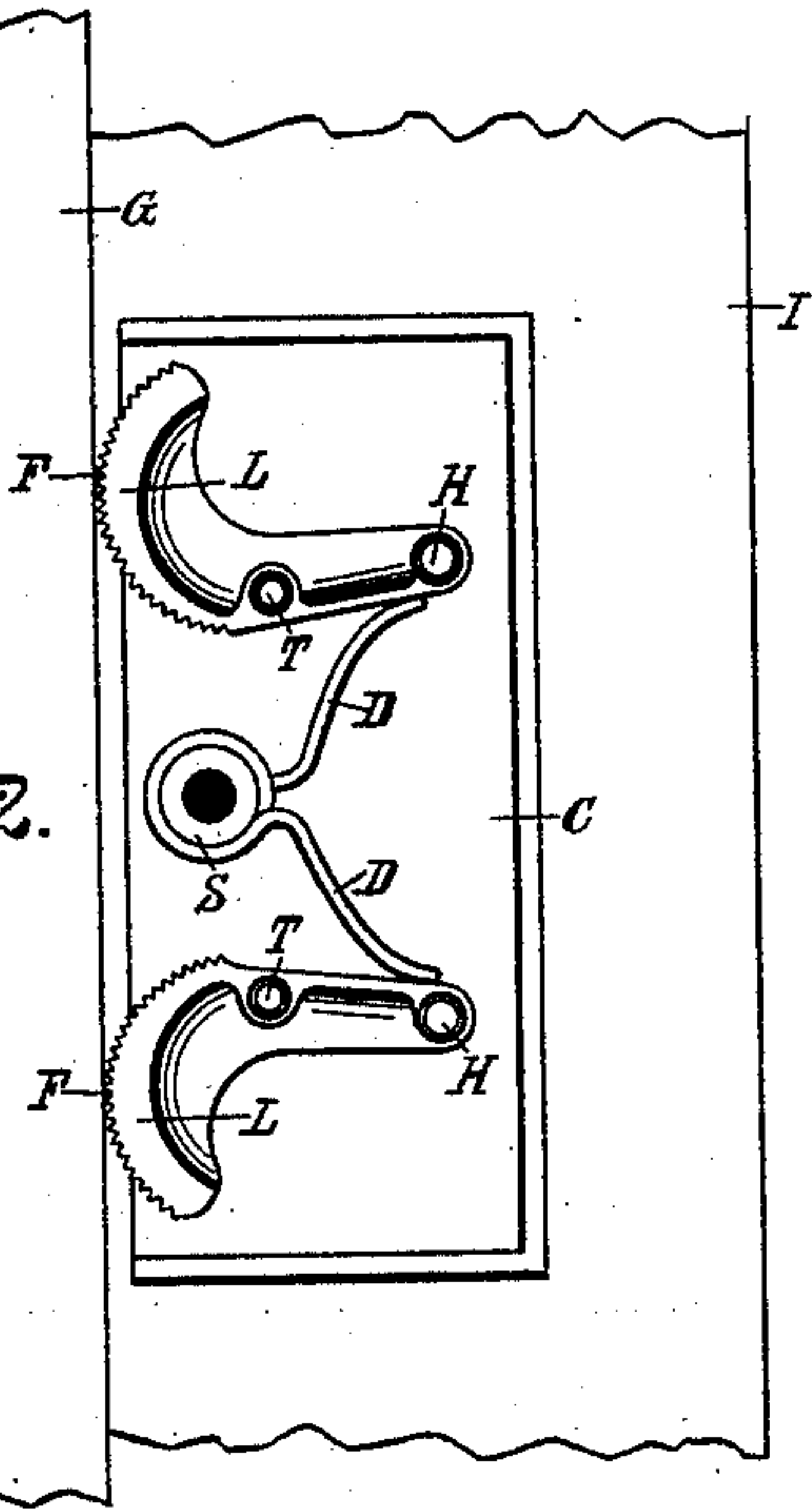
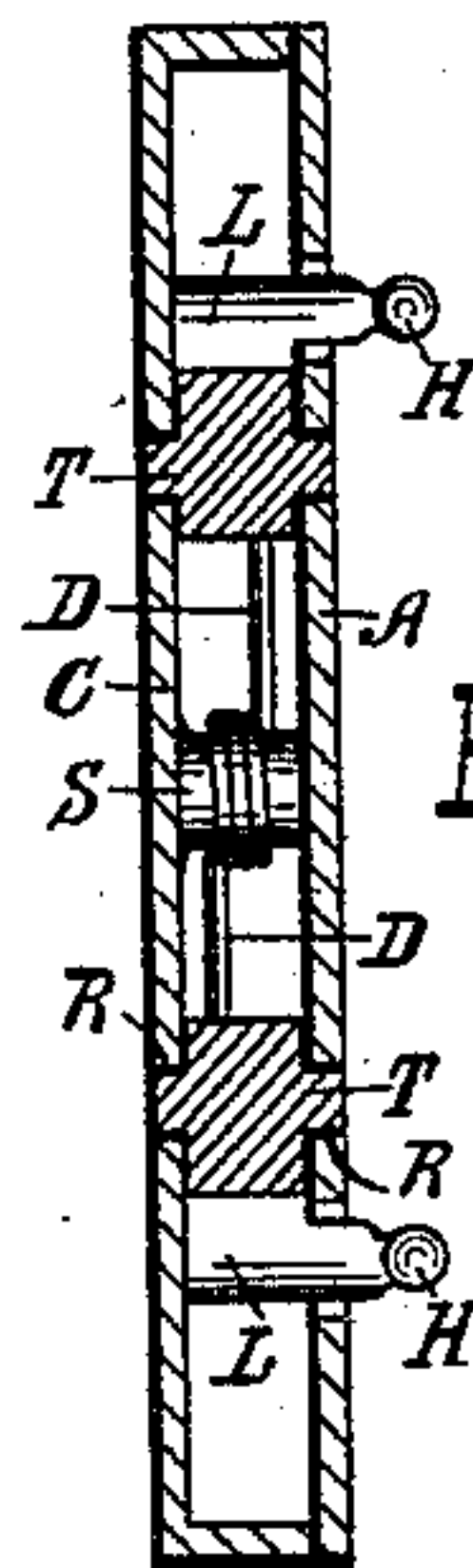


Fig.3.



Witnesses
A. Edmunds
Jas E Edmunds

Inventors
Charles Alteman
Duncan C. C. Macdonald
By P. J. Edmunds
Att'y

UNITED STATES PATENT OFFICE.

CHARLES ALTEMAN AND DUNCAN C. C. MACDONALD, OF LONDON, CANADA,
ASSIGNORS OF ONE-THIRD TO JAMES GRANT, OF SAME PLACE.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 472,325, dated April 5, 1892.

Application filed February 18, 1892. Serial No. 422,047. (No model.)

To all whom it may concern:

Be it known that we, CHARLES ALTEMAN and DUNCAN C. C. MACDONALD, both subjects of the Queen of Great Britain, and both residents of the city of London, in the Province of Ontario, Canada, have jointly invented a new and useful Sash-Lock, of which the following is a full, clear, and exact description.

This invention relates to a device for automatically locking window-sashes closed or at any position to which they may be elevated.

In the accompanying drawings, Figure 1 is a view of a portion of a window-frame and window-sash and a sash-lock embodying our invention, showing the locking-dogs adjusted back from the window-frame to permit the window-sash to be adjusted perfectly free. Fig. 2 is another view of same, showing the cover removed and the locking-dogs engaged with the window-frame. Fig. 3 is a sectional view on the line *xx* of Fig. 1.

C designates a case in which the locking parts are inclosed. This case C prevents objects from interfering with the operation of the locking parts and also prevents them from being damaged, and the side of this case adjacent to the window-frame G is open to permit of the engagement of the dogs L with said window-frame. A designates a cover for this case C, in which cover the elongated slots B are formed.

S designates a standard in the case C, which forms a convenient means for supporting the spring D and to secure the cover and case together by a screw K, passing through the cover and into a screw-threaded socket in said standard.

L L designate locking-dogs, each of which is formed with the trunnions T, curved serrated face F, and operating-handle H.

D designates a spring, which is supported on the standard S, the arms of which spring engage with the locking-dogs L to automatically engage and to retain engaged said locking-dogs with the window-frame G when not under the control of an inside operator.

The trunnions T are formed on the locking-dogs L eccentrically to the curved face F, so that when said locking-dogs engage with the window-frame the greater the pressure brought to bear on the window-sash I to raise or lower it the more rigidly will the window-sash be held, because in attempting

to move the sash in either direction (without adjusting the operating-handles H) the longer radius of the curved face F will be adjusted between the window-frame G and the trunnions T. This will rigidly lock the sash I at this position. These trunnions form the axis of the locking-dogs L and are supported in sockets R, formed in the case C and cover A. The face F is curved so that the longer radius of the locking-dog L will be gradually adjusted between the trunnions T and the window-frame G, and this face F is formed serrated, so that it will take a firm grip on the window-frame G and completely prevent the locking-dogs from slipping.

H H are the operating-handles, which extend through the slots B in the cover A, the slots B being elongated to permit the handles H to be freely operated therein, and the handles H are moved toward each other for the purpose of disengaging the locking-dogs L from in contact with the window-frame G to permit the window-sash to be raised or lowered perfectly free when required. This case C, containing the locking parts, may be mortised in the window-sash I adjacent to the window-frame G, or it may be secured to said sash I by the screws N N, as shown in Fig. 1, and by providing two locking-dogs arranged as shown in Fig. 2 the upper one will prevent the sash from being raised and the lower one prevent the sash from being lowered, so that the window-sash will be securely locked to prevent it from being either raised or lowered.

Having thus described our invention, we claim—

The locking-dogs L L, formed with the trunnions T, the operating-handles H, and curved serrated faces F, in combination with the case C, standard S, the cover A, formed with the elongated slots B, and the spring D, substantially as shown and described, and for the purpose specified.

In testimony whereof we affix our signatures in the presence of the two undersigned witnesses.

CHARLES ALTEMAN.
DUNCAN C. C. MACDONALD.

Witnesses:
P. J. EDMUNDS,
A. EDMUNDS.