

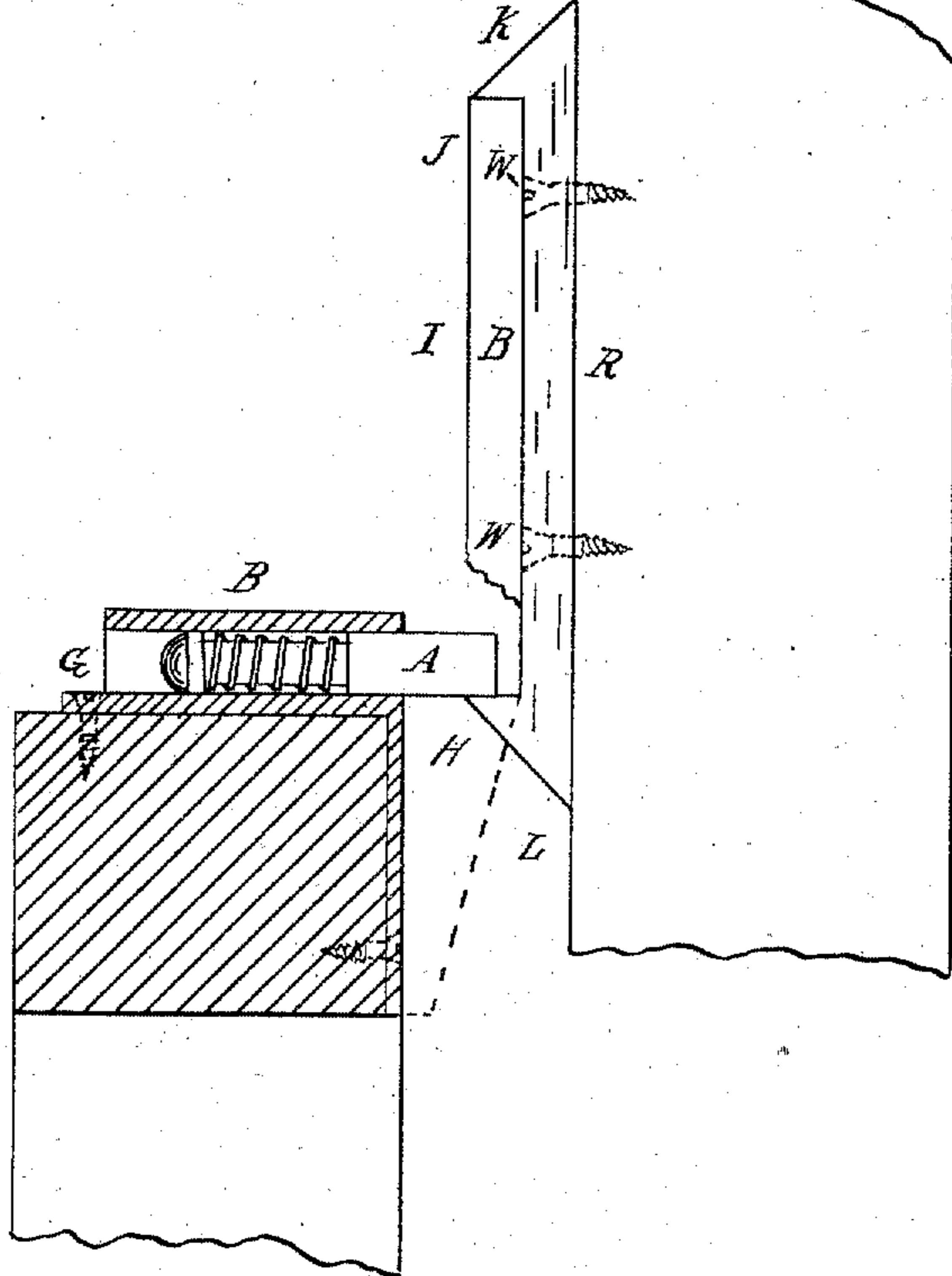
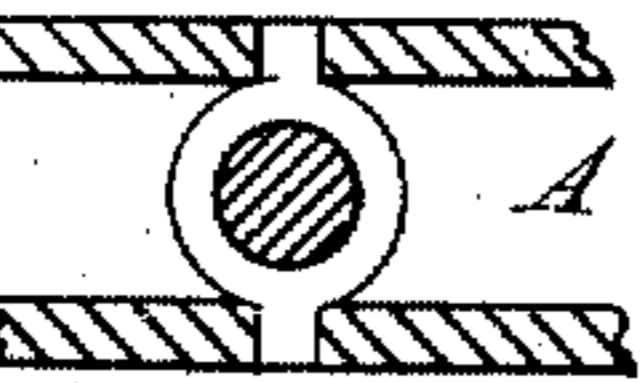
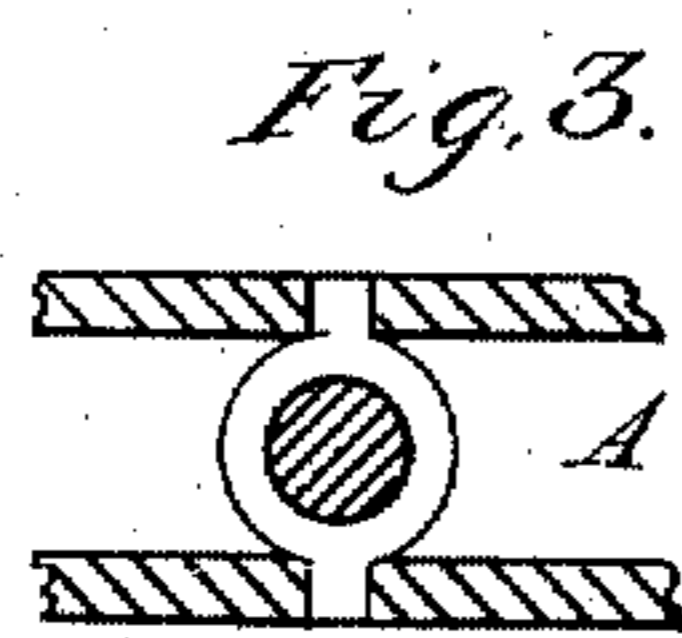
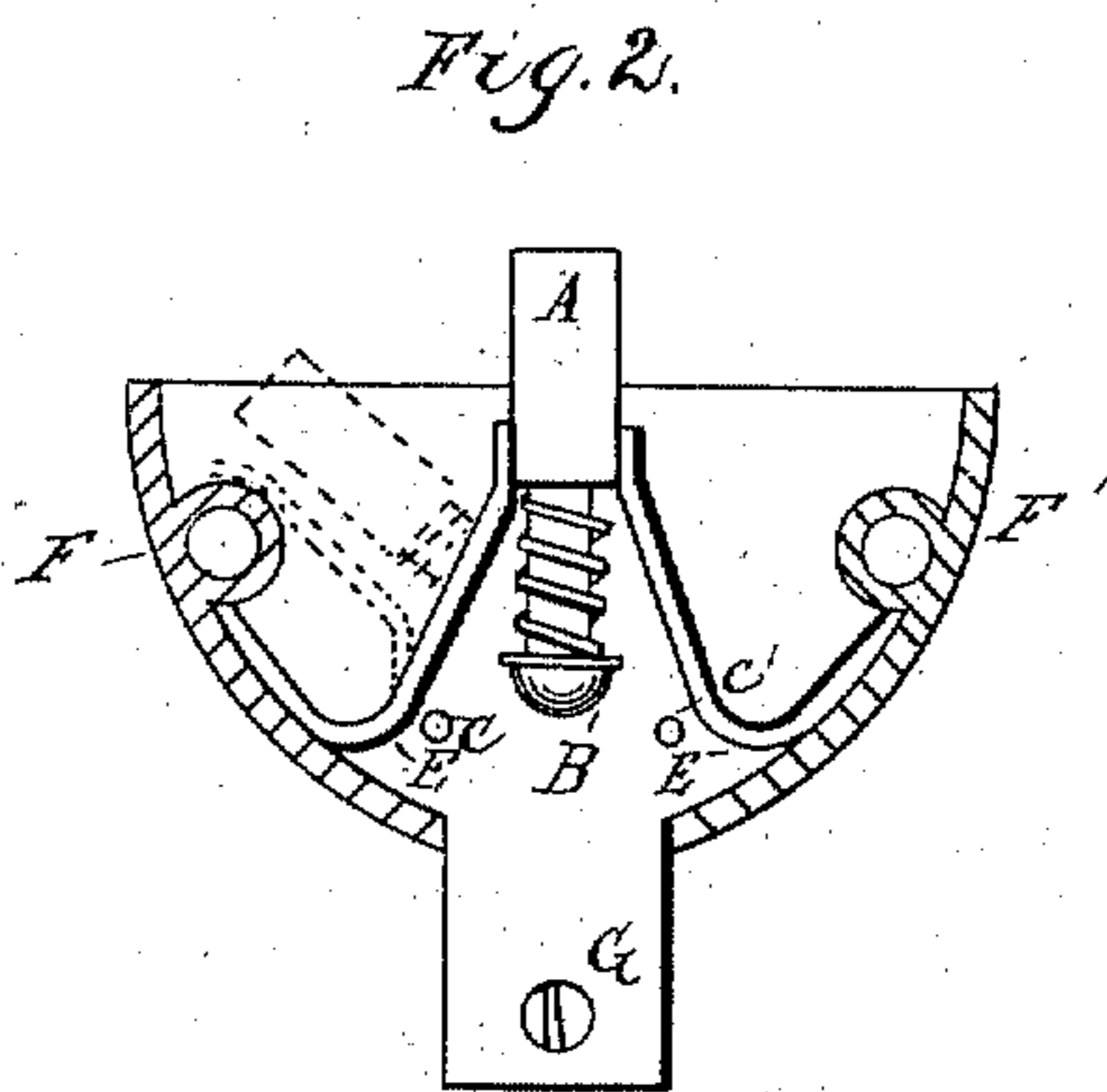
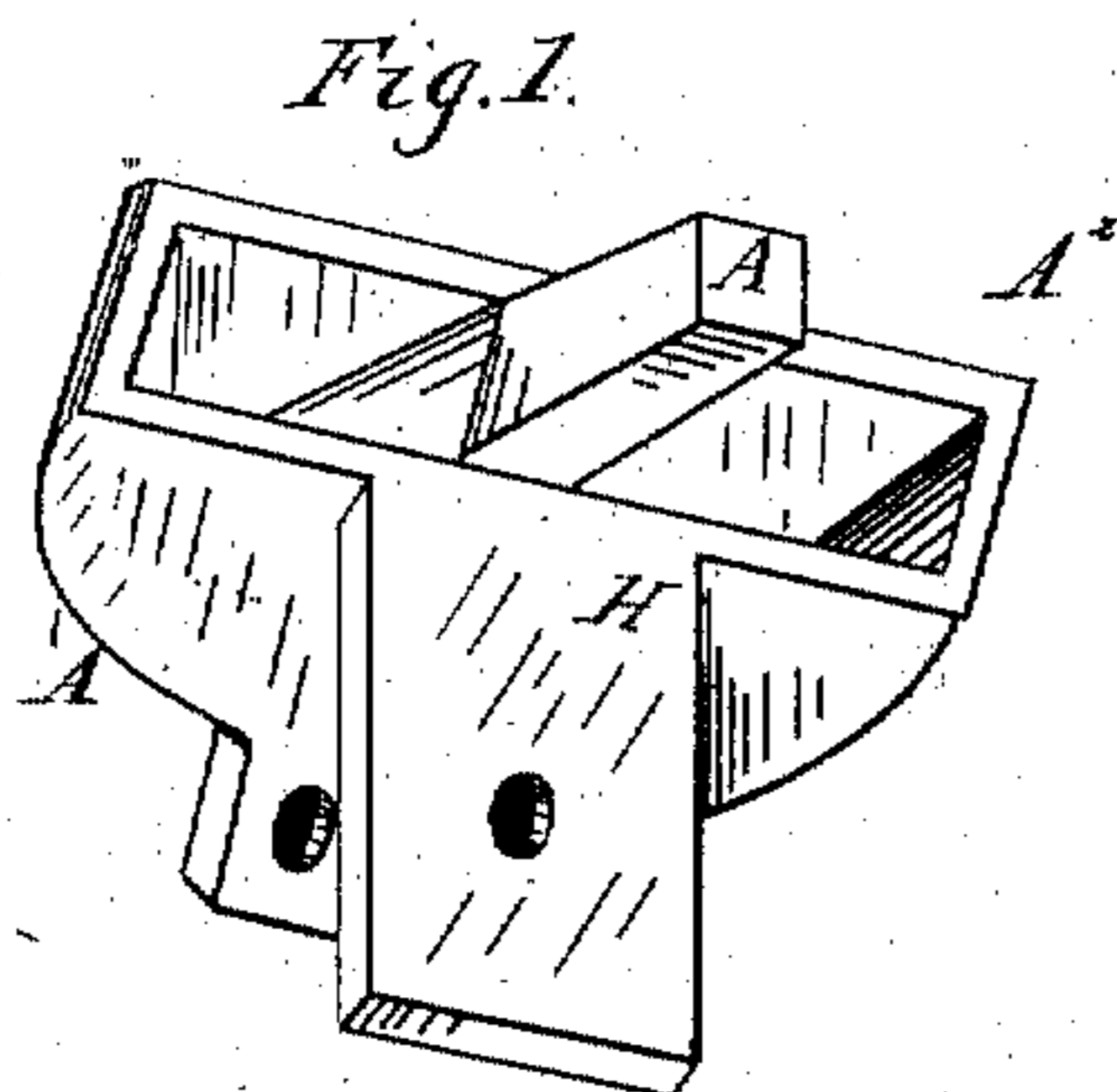
(No Model.)

2 Sheets—Sheet 1.

F. A. WESTON & H. C. FROST.
FASTENER FOR MEETING RAILS OF SASHES.

No. 311,049.

Patented Jan. 20, 1885.



WITNESSES
J. B. Kent
E. S. Siggers.

Frank A. Weston
H. C. Frost
INVENTORS

by C. A. Smith & Co.

Attorneys

(No Model.)

2 Sheets—Sheet 2.

F. A. WESTON & H. C. FROST.
FASTENER FOR MEETING RAILS OF SASHES.

No. 311,049.

Patented Jan. 20, 1885.

Fig. 5.

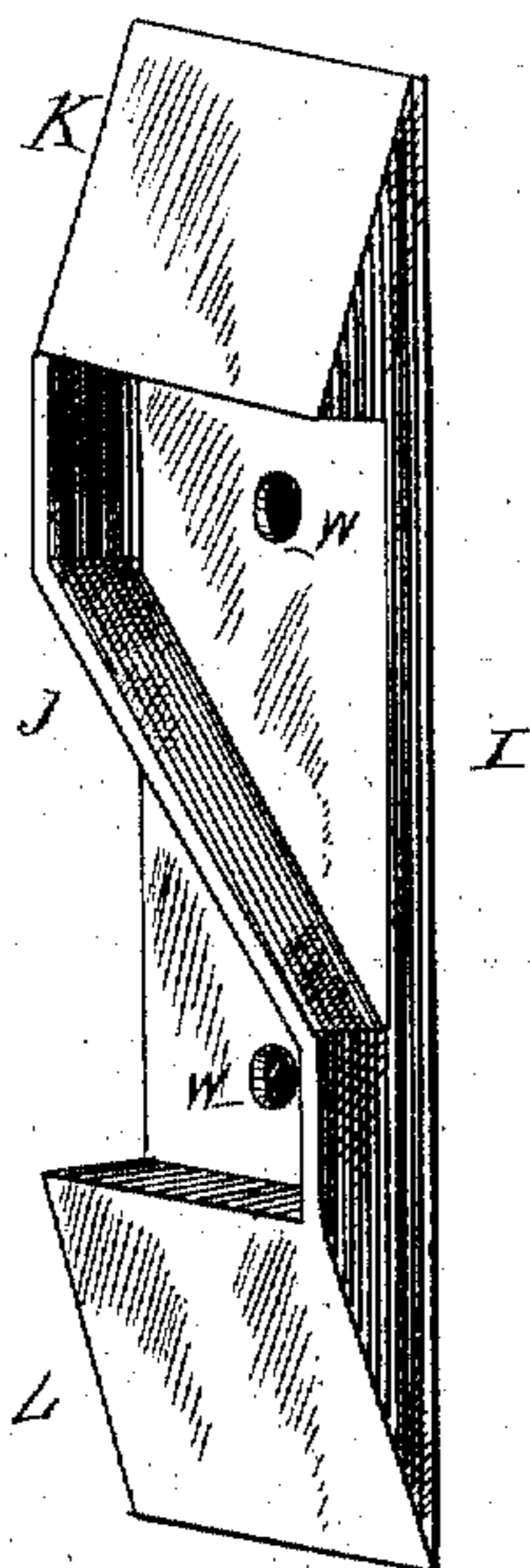
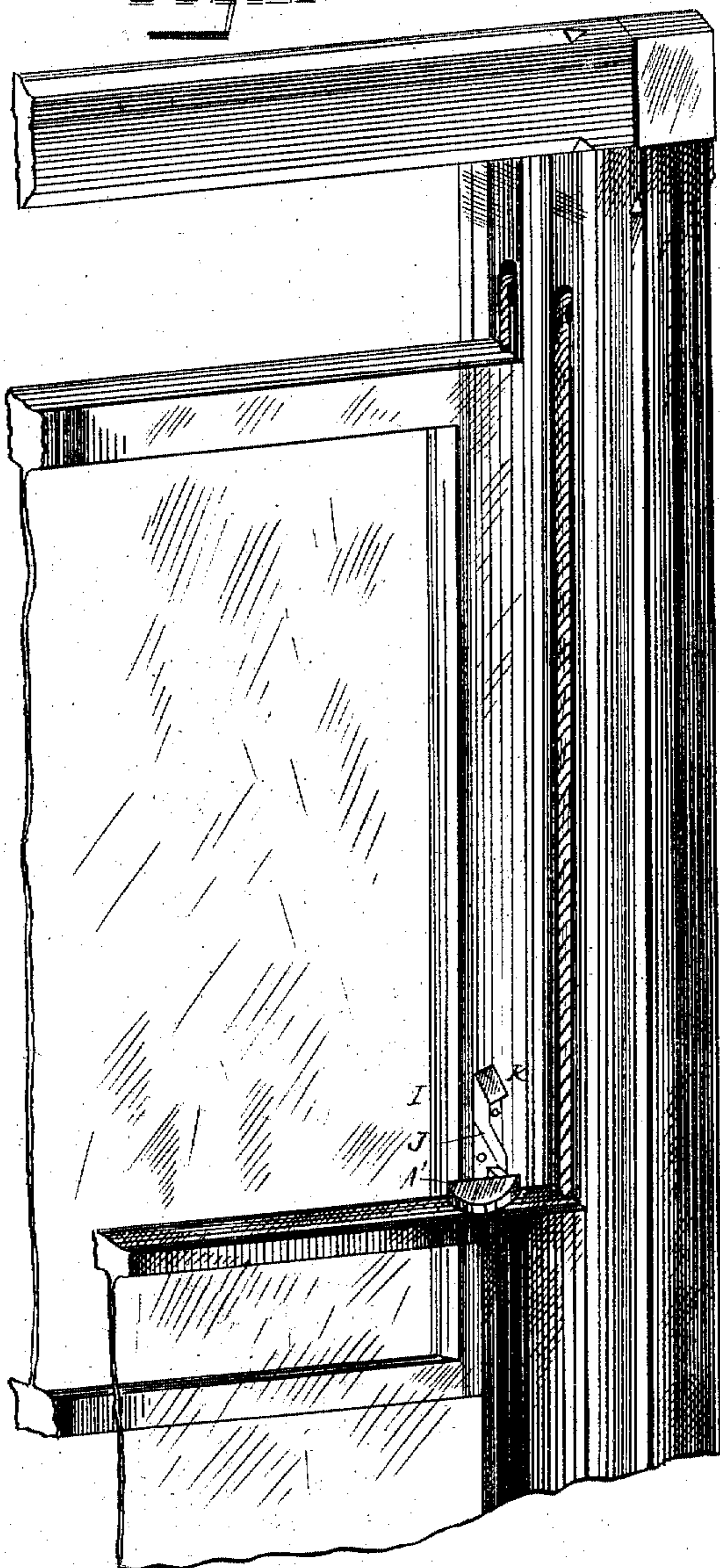


Fig. 6.



WITNESSES

J. D. Munn
E. G. Biggers.

Frank A. Weston
H. C. Frost
INVENTORS

by C. A. Snow & Co

Attorneys

UNITED STATES PATENT OFFICE.

FRANK A. WESTON AND HENRY C. FROST, OF SOUTH PUEBLO, COLORADO,
ASSIGNORS OF ONE-THIRD TO HENRY C. ALBERTSON, OF SAME PLACE.

FASTENER FOR MEETING-RAILS OF SASHES.

SPECIFICATION forming part of Letters Patent No. 311,049, dated January 20, 1885.

Application filed June 7, 1884. (No model.)

To all whom it may concern:

Be it known that we, FRANK A. WESTON and HENRY C. FROST, citizens of the United States, residing at South Pueblo, in the county of Pueblo and State of Colorado, have invented a new and useful Device for Raising and Lowering the Top Sash of Windows, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention has relation to devices for raising and lowering the top sashes of windows; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claims.

15 Figure 1 is a view in perspective of the portion of the catch that is secured to the meeting-rail of the lower sash. Fig. 2 is a horizontal sectional view of that portion of the catch shown in Fig. 1. Fig. 3 is a sectional detail view of the bolt and face view of plate through which bolt passes. Fig. 4 is a sectional detail view of a portion of both the sashes, and of the upper and lower portion of the catches. Fig. 5 is a detail perspective view of the upper portion of the catch. Fig. 6 is portion of front elevation, showing the upper sash lowered.

25 Referring by letter to the accompanying drawings, A designates a bolt, which passes through a plate, B', so that it may slide in and out, and said bolt has a head or nut on its inner end to prevent the bolt from sliding out entirely. Said plate B' has a tenon or axle on top and bottom edges, which revolve in holes in the top and bottom plate of the case of the lower portion, A', of the catch when the bolt is swung to either side in the opening A' in the case A'. The bolt A is provided with a spiral spring, B, around its smaller portion, which bears against the square or larger portion of the bolt and against the plate B', through which said bolt passes, and holds it out normally, but permits it to recede under pressure on its point within the case A'. The bottom plate of the case A' is provided with two short studs or pins, c c, one on each side of the bolt and a short distance therefrom. These pins c c are stop-pins for the springs E E, and prevent the bends of the springs E E from receding from their abutments when

said springs are bent to the side, as shown in dotted lines in Fig. 2. The springs E E are flat curved springs secured to the edge wall of the case A', and bearing normally against the bolt A at the larger or square portion. These springs E E permit the bolt to swing to either side of the middle of the case when necessary in operating the complete device. The top plate, F, of the case A' is secured in place by screws passed through screw-holes F', formed in the body of the case A', as shown in Fig. 2. The case A' is provided with a horizontal projection, G, at its rear end, provided with a screw-hole, through which a screw is passed to secure the case A' to the top face of the meeting-rail of the lower sash. The case A' has also a vertical projection, H, having a screw-hole, through which a screw is passed to secure the case to the front face of the side rail of the lower sash. The top portion, I, of the catch consists of a plate provided at its upper and lower ends with beveled projections K and L. The horizontal portions of these projections K and L are connected by a projecting flange, J, which is parallel with the edges of the plate I a short distance near each projection K L at opposite sides of the plate, and then crosses the face of the plate diagonally from one straight end to the other, as shown. This plate I is provided with screw-holes W, and is secured to the side rail, R, of the upper sash about the middle of its width, and at any desired distance above the meeting-rail of said upper sash, as shown in Fig. 6.

85 In operation the device is very simple. If it is desired to lower the top sash, raise the bottom sash, and when the bolt A comes in contact with the lower projection, K, of the plate I the bolt A will be forced back as the sash is raised until it passes said projection K, when the bolt will be sprung out by the spiral spring into the space above the projection K. Then, by lowering the lower sash, the bolt A, being caught upon the horizontal portion of the projection K, will pull the top sash with it. When the top sash has been lowered to any desired point, in order to disengage the bolt A from the top plate, I, raise the bottom sash until the bolt A comes in contact with the flange J, running diagonally across the plate I, which will swing the bolt to the side

as the bottom sash is raised, as shown by the dotted lines in Fig. 2, and when the bolt has passed the plate the flat spring will swing it back to the middle.

5 To raise the top sash, raise the bottom sash until the bolt A passes the plate I on top sash. Then lower the bottom sash until the bolt A passes the beveled projection L at the upper end of plate I. Then raise the lower sash,
15 which will raise the upper sash to its closed position.

If it is desired to raise the lower sash and leave the upper sash stationary, the bolt A will snap over the lower projection, K, and
15 swing around the projection L, thus not interfering with the bottom sash working separately.

Having thus fully described our invention, what we claim, and desire to secure by Letters
20 Patent of the United States, is—

1. The combination, with the case A', having the bolt A, spiral spring, flat springs, and stop-pins, of the plate I, having beveled projections K and L, and the diagonal flange J,
25 having straight ends connecting with the projections K L on opposite sides of the plate I, substantially as specified.

2. The combination, with the case A', having the vertical and horizontal projections for securing it in place, and the removable cover 30 secured in place by screws, of the bolt A, plate B', pivoted in the top and bottom of said case, the spiral spring between the plate and square portion of the bolt, the curved flat springs secured to the edge wall of the case and bearing 35 against the bolt in front of the plate, and the stops in the case on opposite sides of the bolt, substantially as specified.

3. The combination, with the plate I, of the beveled projections K and L at opposite ends 40 thereof, and the diagonal flange J, having straight ends connecting the projections K and L, substantially as specified.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures 45 in presence of two witnesses.

FRANK A. WESTON.
HENRY C. FROST.

Witnesses:

JOSEPH SIRE GREENE,
W. N. PICKARD.

It is hereby certified that in Letters Patent No. 311,049, granted January 20, 1885, upon the application of Frank A. Weston and Henry C. Trost, for an improvement in "Fasteners for Meeting-Rails of Sashes," the name of one of the inventors was erroneously written and printed "Henry C. Frost," whereas it should have been *Henry C. Trost*; that the proper correction has been made in the files and records pertaining to the case in the Patent Office, and should be read in the Letters Patent to make it conform thereto.

Signed, countersigned, and sealed this 17th day of March, A. D. 1885.

[SEAL.]

M. L. JOSLYN,
Acting Secretary of the Interior.

Countersigned:

R. G. DYRENFORTH,
Acting Commissioner of Patents.