

(No Model.)

2 Sheets—Sheet 1.

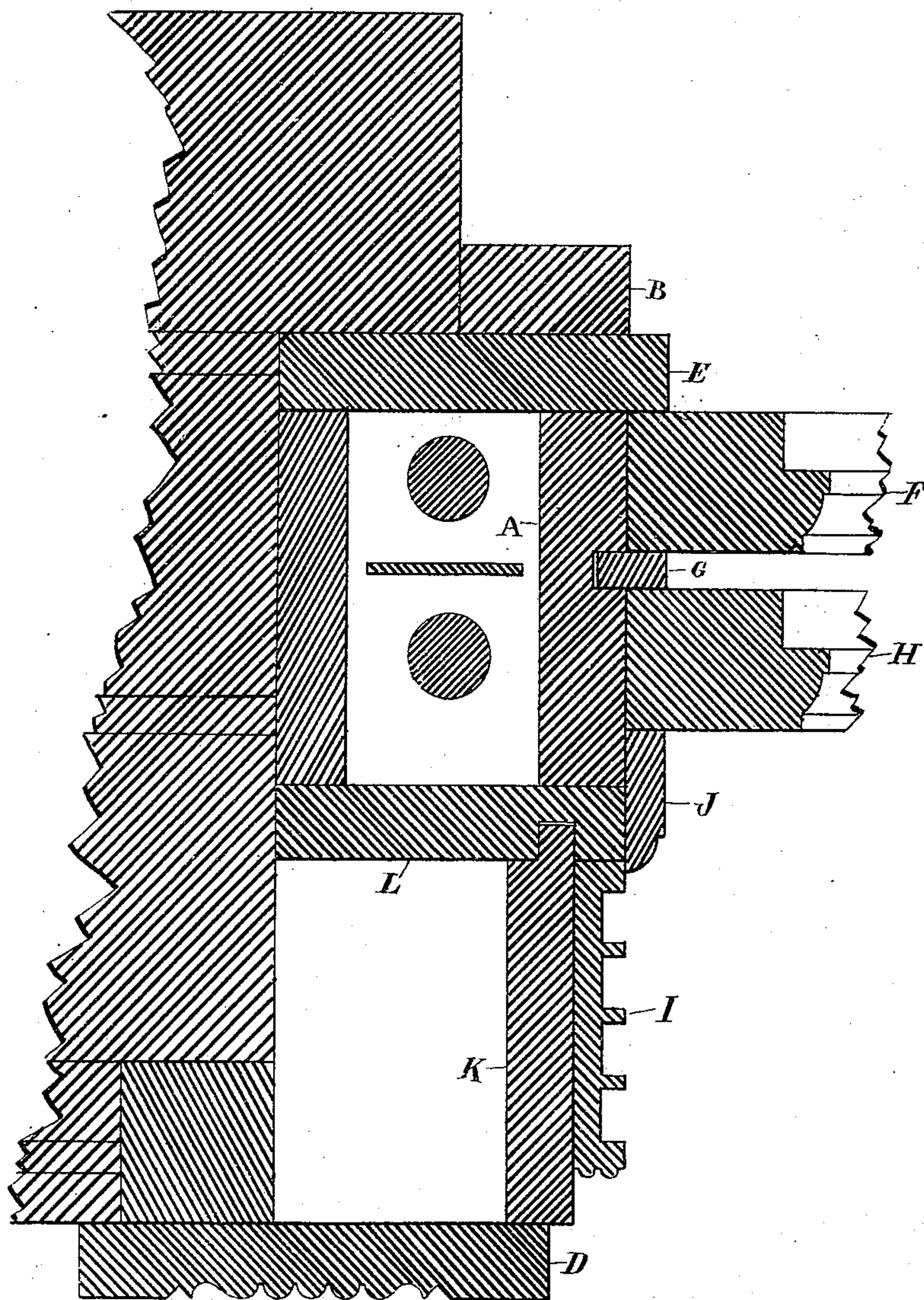
H. E. WILLER.

WINDOW FRAME.

No. 312,052.

Patented Feb. 10, 1885.

*Fig. 1.*



Witnesses.

A. W. Eager.

H. C. Dickson

Inventor.

Henry E. Willer

By:-

Ernest Benedict  
Attorneys.



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2 Sheets—Sheet 2.

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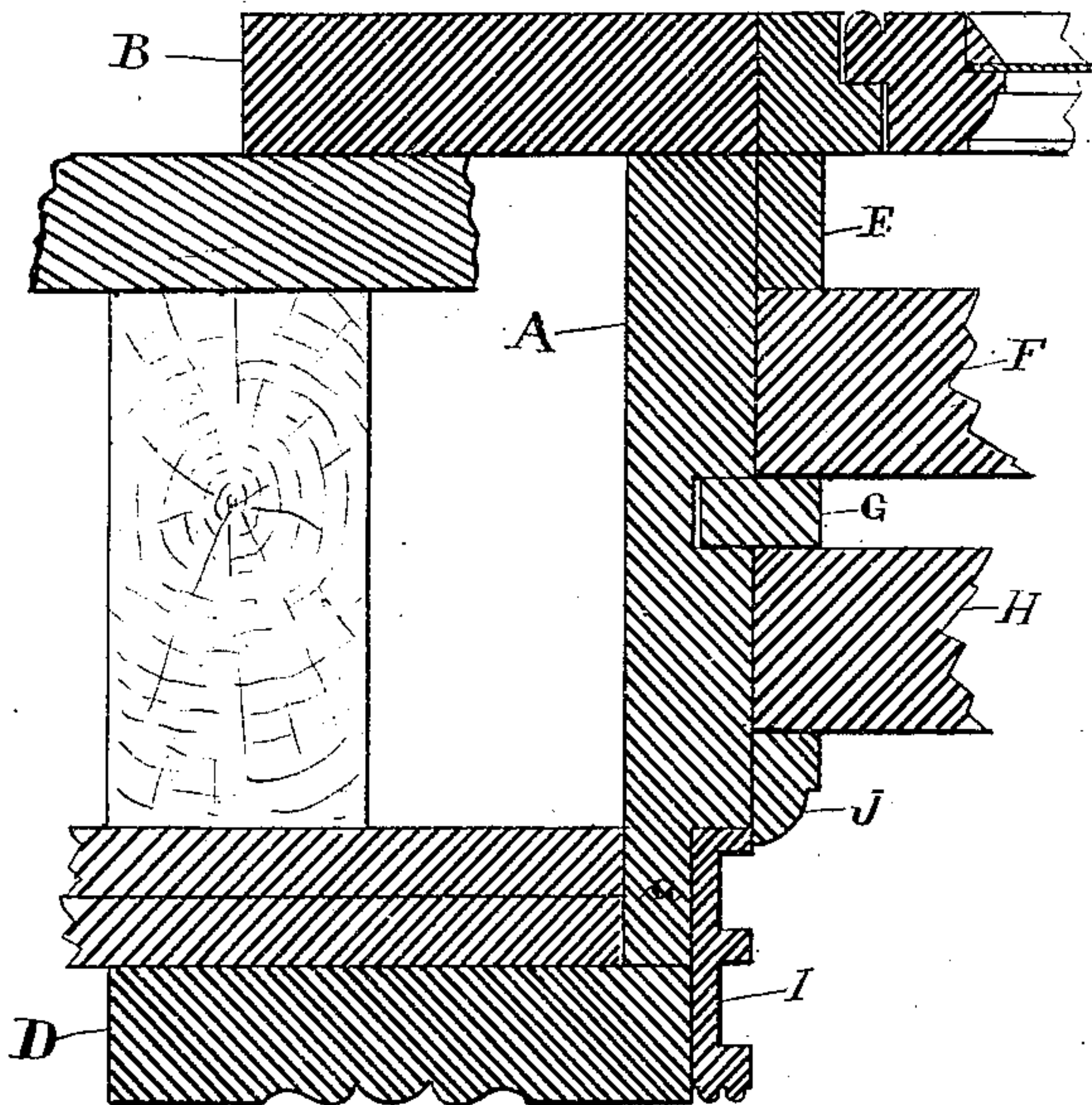
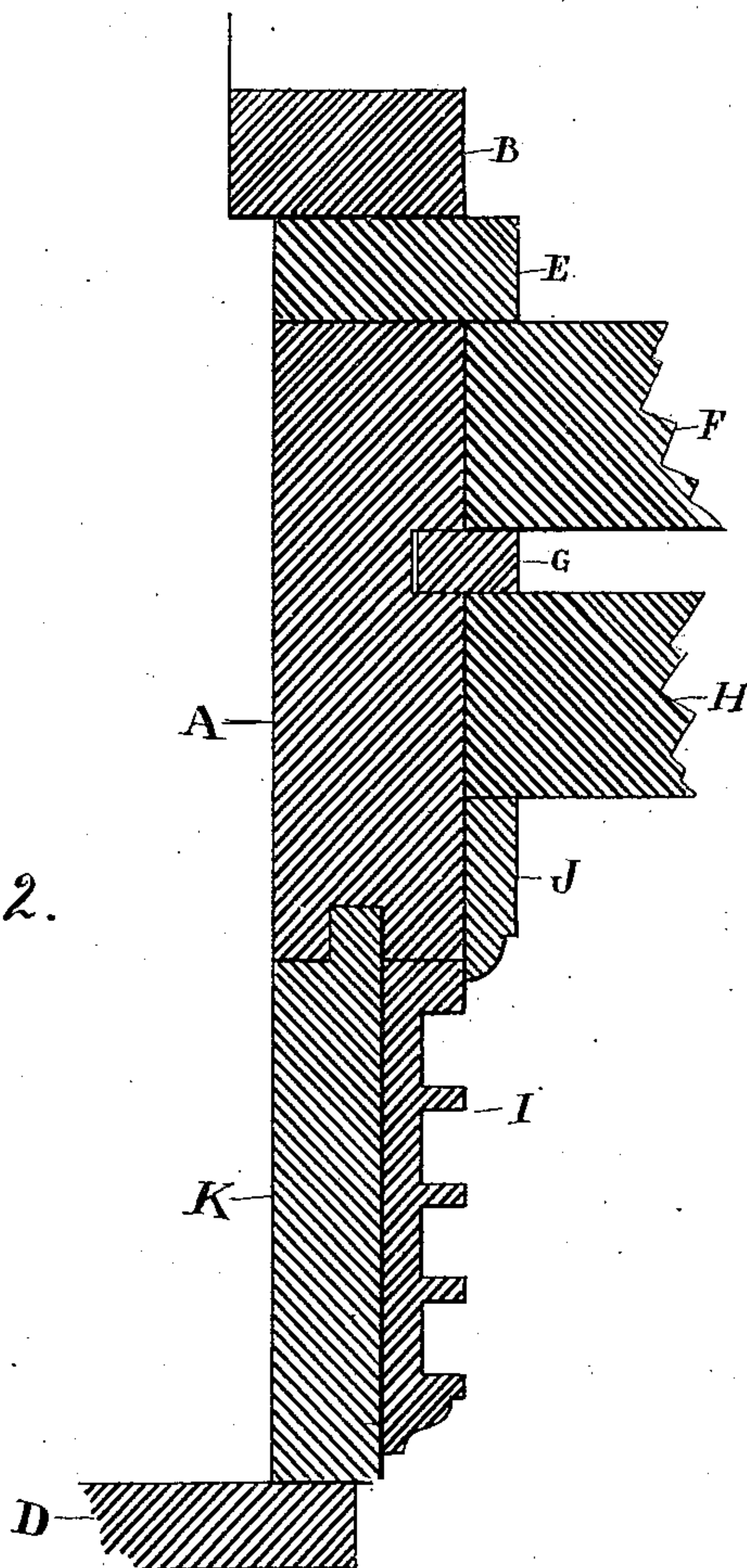


Fig. 2.

Fig. 3.



Witnesses:  
a. v. Eager  
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# UNITED STATES PATENT OFFICE.

HENRY E. WILLER, OF MILWAUKEE, WISCONSIN.

## WINDOW-FRAME.

SPECIFICATION forming part of Letters Patent No. 312,052, dated February 10, 1885.

Application filed September 13, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY E. WILLER, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Window-Frames; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in the construction and arrangement of window-frames, the sash-retaining beads, the blinds, and blind-retaining strips.

The objects of my improvements are to enable me to remove the sash-retaining beads and sash from the window-frame without removing the blind-retaining strips, and also to more permanently retain the inner edges of the blind-retaining strip, which is accomplished by the overlapping edges of the window-beads.

Figure 1 of the accompanying drawings represents a horizontal section of my improvements as used in connection with a box window-frame for brick or stone buildings. Fig. 2 represents a horizontal section of my improvements in connection with a plank window-frame for brick or stone buildings. Fig. 3 represents a horizontal section of my improvements in connection with a window-frame for a frame building.

Like parts are represented by the same reference-letters throughout the several views.

In describing my invention I have shown and will refer to but one side of the window-frame, the opposite side of which is a duplicate of that described.

A represents the window-jamb, which is secured to the frame with nails or screws in the ordinary manner. B represents the outside casing. D is the inside casing. E is the outside window-bead. F is the top sash. G is the center bead. H is the inside or bottom sash.

In Fig. 3 the inner end of the jambs are cut

away at *a* for the reception of the grooved blind-strips I, whereby said strip is set back from and in line with the front surface of the jamb. The bead J is of such width that its front edge projects forward slightly in front of the inner or back edge of the blind-strip I, whereby it covers up the joint between the inner edge of said strip and the jamb and aids in retaining said blind-strip in place.

When the blind-strip is applied to that form of window-frames shown in Fig. 2, an additional piece or lining, K, is interposed between the edge of the jamb A and the inner casing, D, as shown in said Fig. 2, back from the front surface of the jamb, to which piece K the way-strip I is affixed, whereby the inner edge of said way-strip is in like manner overlapped by the front edge of the bead J, as shown, while its front surface is set outward flush with the front surface of the jamb. When, however, a box-frame is used, as shown in Fig. 1, the inner end of the lining K is affixed by a tongue-and-groove joint to the front wall, L, of the box, and extends forward, closing the space between said box and the inside casing, D, and to this lining K, I affix my blind-strip I, as shown. In all cases it is obvious that the way-strip I is set back so that the front or outer surface is flush with the outer surface of the jamb, and the front edge of the bead J slightly overlaps the inner edge of the way-strip, whereby said bead, when in place, assists in retaining the blind-strip, and whereby when said bead is removed the sash may be removed from the window-frame without removing the way-strips, as mentioned.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a window sash and frame, of blind way-strips having their front surfaces flush with the front surface of the jambs of the window, and beads for retaining the window-sash, substantially as and for the purpose specified.

2. The combination, with a window-frame, of way-strips I, so set back from the outer surface of the jambs as to bring their outer surfaces flush with the outer surface of the jambs, and the

sash-retaining beads J, having their front edges projecting forward past the rear edges of said way-strips, substantially as and for the purpose specified.

- 5 3. In a window-frame, the combination of jambs A, outside casings, B, outside stops, E, top and bottom sashes, F and H, center beads, G, inside beads, J, way-strips I, having their front or outer surfaces flush with the outer sur-

faces of said jambs, and inside casing, D, all substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY E. WILLER.

Witnesses:

JAS. B. ERWIN,  
C. T. BENEDICT.