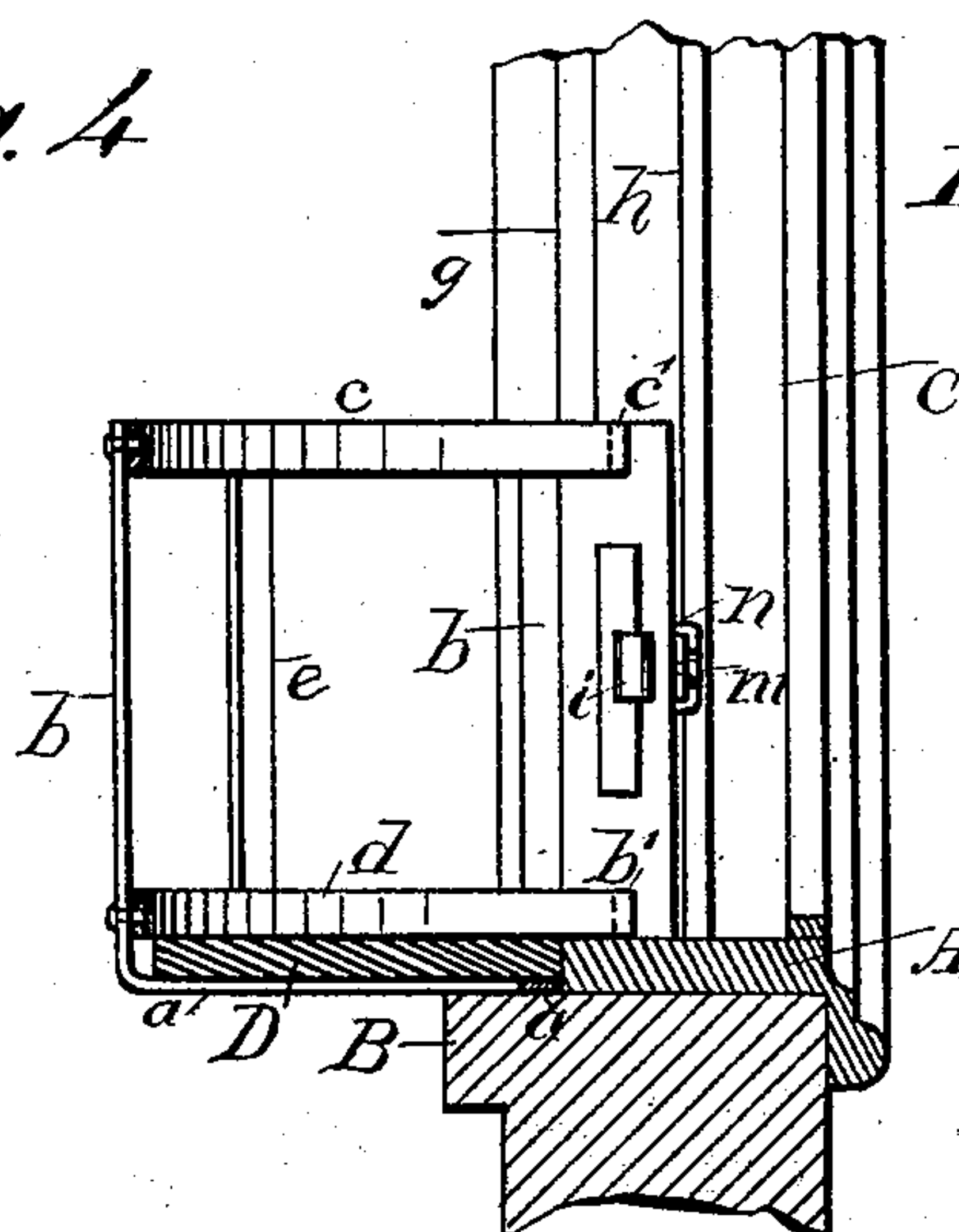
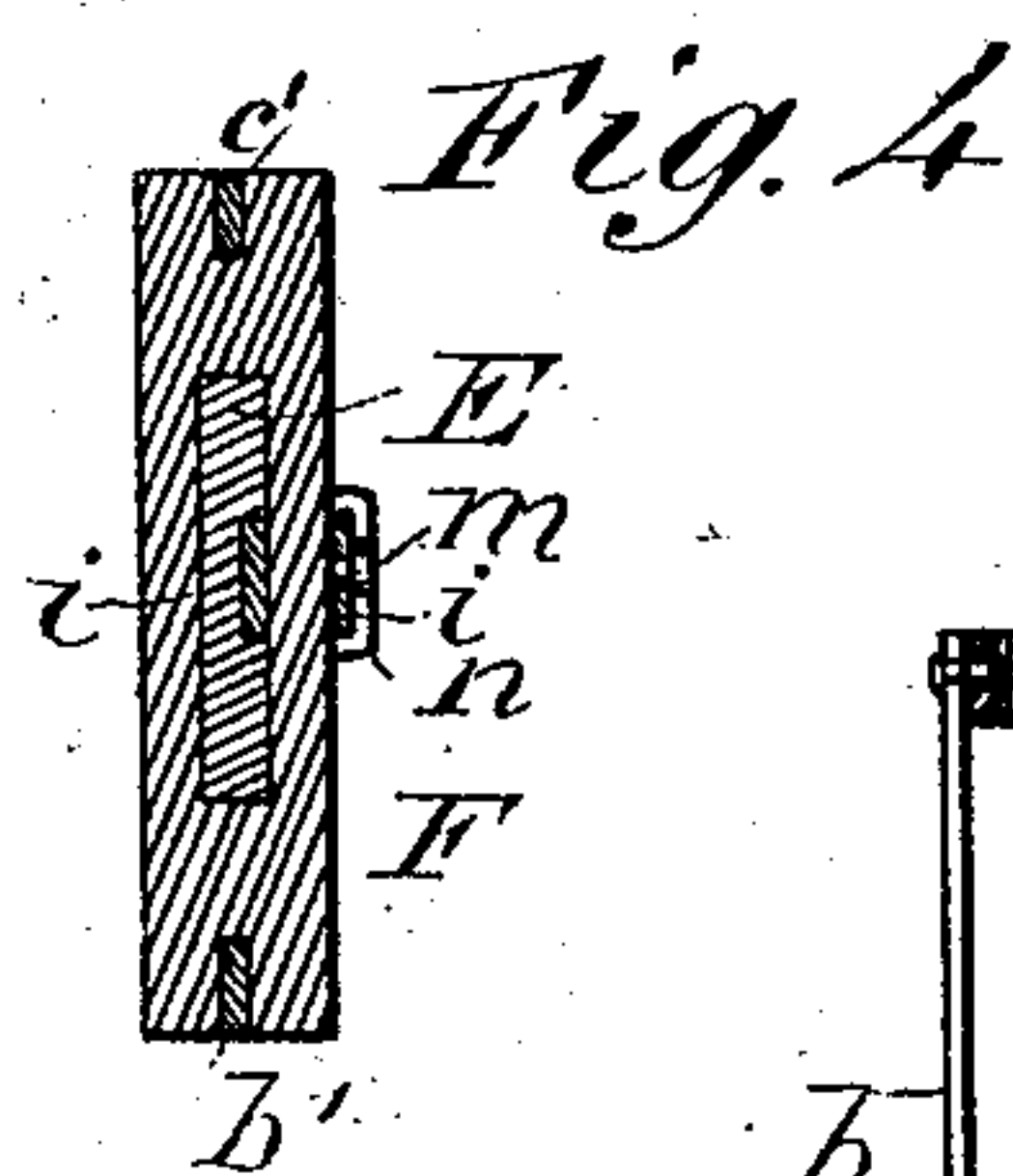
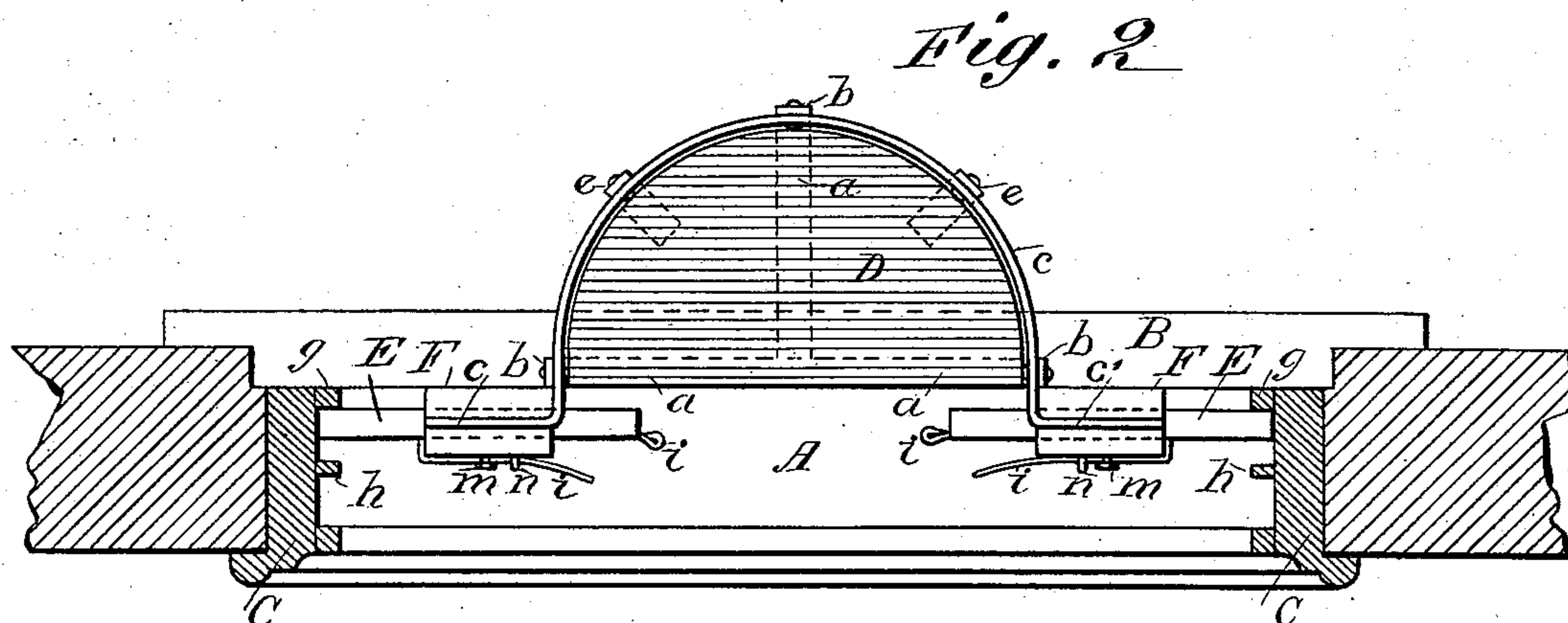
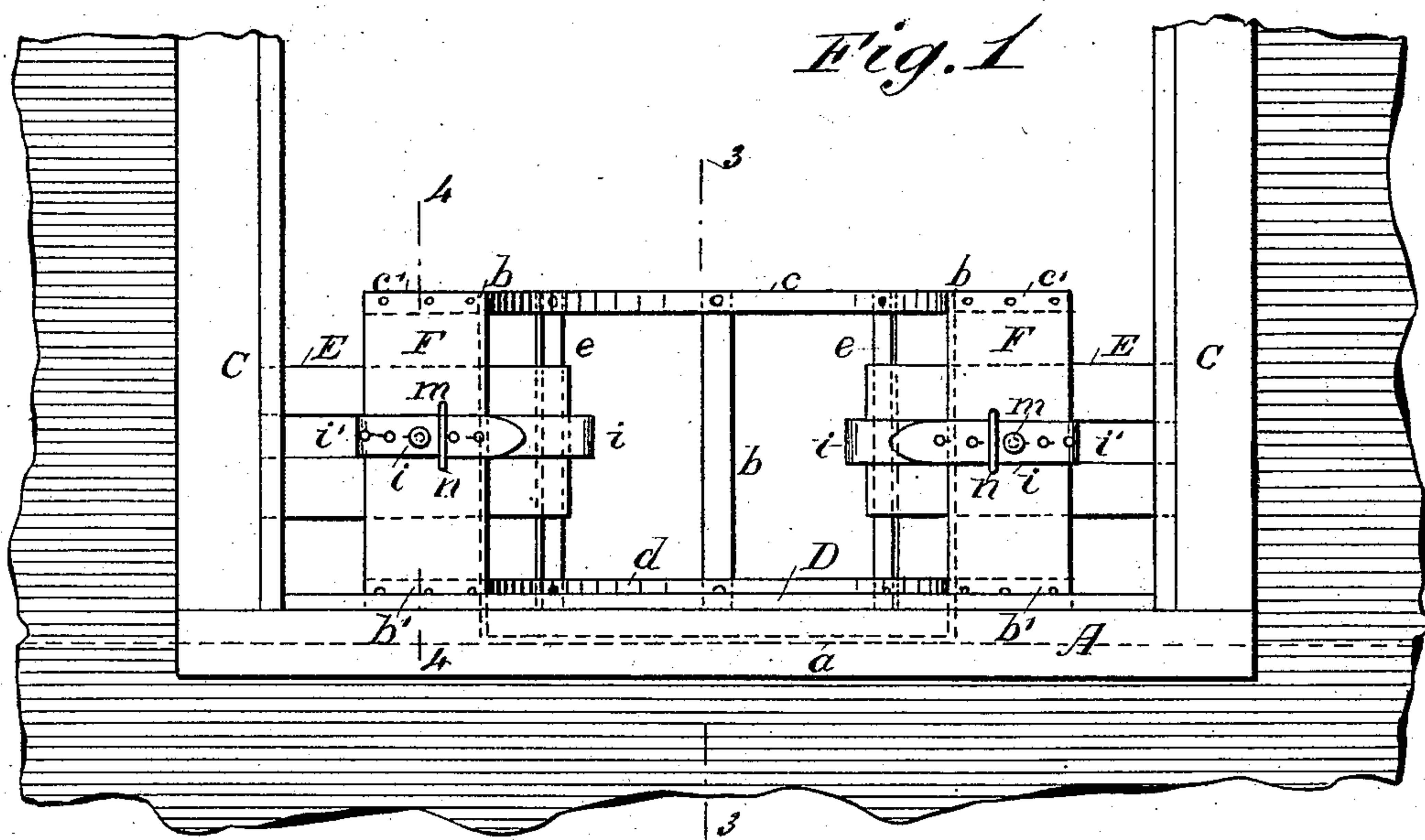


(No Model.)

W. KRUPPENBACHER.
ADJUSTABLE WINDOW SEAT.

No. 507,371.

Patented Oct. 24, 1893.



WITNESSES:

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WILLIAM KRUPPENBACHER, OF YONKERS, NEW YORK.

ADJUSTABLE WINDOW-SEAT.

SPECIFICATION forming part of Letters Patent No. 507,371, dated October 24, 1893.

Application filed January 11, 1893. Serial No. 458,056. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM KRUPPENBACHER, of Yonkers, in the county of Westchester and State of New York, have invented a new and useful Improvement in Adjustable Window-Seats, of which the following is a full, clear, and exact description.

My invention relates to improvements in a class of devices employed to facilitate the cleaning of windows on their exteriors, and more particularly those windows that are at a considerable elevation from the ground.

The objects of my invention are, to provide a simple and comparatively cheap device of the character indicated, which may be readily adjusted in its parts to fit between the stiles of a window casement, and be there removably secured, so as to retain the seat portion projected beyond the side of the building whereon it is placed, and afford a convenient and safe seat for the party who is cleansing the window.

A further object is to construct the improved window seat, so that it will be adapted for a secure attachment to a window casement and a quick release therefrom, having a range of adjustment laterally, which will allow it to be used safely in connection with windows the frames of which vary considerably in width.

To these ends, my invention consists in the construction and combination of parts, as is hereinafter described and claimed.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is an inner side view, in part, of a window casement and house-wall and the improvement secured in place within the casement. Fig. 2 is a plan view of the improved window seat engaging a window casement shown in section. Fig. 3 is a transverse sectional view on the line 3—3 in Fig. 1; and Fig. 4 is a view in cross section of parts of the improvement, on the line 4—4 in Fig. 1.

In the drawings, A is the sill, and B the sub-sill of a window, shown to illustrate the application of the improvement.

The vertical stiles C, of the casement, may be considerably varied in degree of separation, and yet be adapted to hold the improved

window seat in position, as will appear from the description of the novel device which will now be given.

A base board D, is provided, which by preference is formed semi-circular on part of its edge, this edge portion joining a straight edge which completes the contour of the base board, that in service forms the seat of the device.

A reinforcing plate *a*, is furnished, which for the sake of lightness and to economize material, is given a T-form edgewise, and is flat otherwise, except integral portions that are bent therefrom as will be explained. The plate *a*, is secured to the lower surface of the base-board D, so that the outer edge of its cross-bar will coincide with the straight edge of the part it engages, and the center bar of said plate, which is at right angles to the cross-bar, is projected toward the curved edge of the base-board at the longitudinal center of the latter. A sufficient length is afforded for the members of the reinforcing plate *a*, to permit integral posts *b*, to be formed by bending the members upwardly at a right angle to the portions that are affixed to the bottom side of the base-board, said posts being in contact at their lower ends with the curved edge of the piece D.

A top band *c*, and a bottom band *d*, are secured by rivets or other means, upon the three posts *b*, exteriorly, and at their upper and lower ends respectively, said bands having a degree of curvature given to them which will conform with that of the curved edge of the base-board D. Intermediately of the three posts *b*, two or more other posts *e*, are secured on the bands *c*, *d*, the lower end portions of the posts *e* being bent at a right angle in a proper direction to permit them to lie in contact with the lower surface of the base board D, and be thereto secured by any suitable means.

The construction of parts as described, provides a seat and a semi-circular railing around the same, of a proper height to prevent an occupant of the seat or base-board from falling outwardly, the posts and top band *c*, affording a back rest that is comfortable, strong and secure.

The preferred means for adjustably retaining the seat and its back part projected from

a window, consists of a pair of sliding wings, that have their outer ends entered within channels oppositely formed on the casement stiles C, by the outer bead strips *g* and part-
 5 ing strips *h*, usually provided for the vertical traverse of the upper sash of the window. The wings E, are of the same dimensions, and each comprises a flat rectangular slat of wood or metal, the wings being fitted to slide neatly
 10 in the guide boxes F, secured in the same vertical plane by their attachment to outward extensions *c'*, *d'*, on the bands *c*, *d*, said extensions being screwed or riveted upon the guide boxes near their upper and lower edges.
 15 As shown, the portions *c'*, *d'*, are inserted in grooves formed in the top and bottom edges of the guide boxes F, but this method of attachment may be changed to locate these parts externally of the guide boxes, if preferred.
 20 The degree of lateral projection given to the guide boxes F, should be such as will permit their outer vertical edges to freely enter between the bead strips of a window of minimum width, when the wings E, are shoved
 25 toward each other, so that their outer ends are flush with these edges of the guide boxes, thus permitting the device to be applied to a narrow window and be locked fast, seated on its sills, by an extension of the wings between
 30 the bead strips and parting strips on the stiles, as before mentioned.

The preferred means for extending the wings E, and retaining them in secured condition at any point of lateral projection, consists of a strong strap *i*, provided for each
 35 wing, which straps are located respectively in channels *i'*, formed longitudinally in each wing near the center of width, vertically considered. The straps *i*, when located in their
 40 respective channels, are projected at their inner ends beyond the wings E, sufficiently to permit said ends to be secured to the wings by any preferred means, the other ends of the straps being of a suitable length to allow
 45 them to be folded upon the inner sides of the guide boxes F, and have a removable engagement effected between their perforated extensions and button studs *m*, projected from the inner sides of the guide boxes at proper
 50 points. When the window seat that has been described, is to be applied to a window casement, the straight edge of the base-board D, is made to impinge upon the outer edge of the window sill A, the board D, resting on the sub-sill B, as shown in Fig. 3. The lower
 55 edges of the guide boxes F, are located far enough above the bottom surface of the base-board D, to allow said edges to rest upon the sill A, when the base-board is imposed on the

sub-sill. When the seat proper is placed in the open window, as explained, the straps *i*, are evenly drawn upon so as to cause an outward extension of the wings E, and the introduction of their outer edge portions between the bead strips and parting strips *g*,
 65 *h*; said straps being then buttoned over the studs *m*, and the flap ends inserted through the keeper loops *n*, which adjustment of parts can be expeditiously effected, and the window seat securely locked upon the sill of any
 70 window within the capacity of the device; a speedy release of the entire appliance being conveniently effected by a release of the straps *i*, and an inward sliding movement of the wings E, sufficiently to disengage their ends
 75 from the strips on the window casement.

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

1. In a movable window seat the combination with a base board and a guard railing thereon, of laterally-adjustable wings which slide in boxes and engage the window casement, and flexible devices that are adapted to retain the wings at different degrees of projection, substantially as described. 80

2. In a movable window seat, the combination with a base-board, a guard railing on part of the edge of the base-board, and oppositely extending guide boxes on the window seat, of lateral wings adapted to slide in the boxes, and project between strips on the window casement and means to secure the wings projected, substantially as described. 85

3. In a movable window seat, the combination with a semi-circular base-board, a guard railing on the edge of said semi-circular board, and oppositely and laterally projecting guide boxes secured to the railing and base-board, of flat wings adapted to slide in the guide boxes, and securing straps for the wings, substantially as described. 90

4. In a movable window seat, the combination with a semi-circular base-board having part of its edge straight, a reinforcing plate thereon, vertical posts on the curved edge of said base-board, and horizontal railing bands secured on the posts, of oppositely projected guide boxes on the base-board and the railing bands, wings adapted to slide in the boxes, and a securing strap for each wing, attached at one end to the wing and adjustably secured at its opposite end to the guide box, substantially as described. 95

WILLIAM KRUPPENBACHER.

Witnesses:

ADOLPH MAYER,
 JOHN RUSSELL.