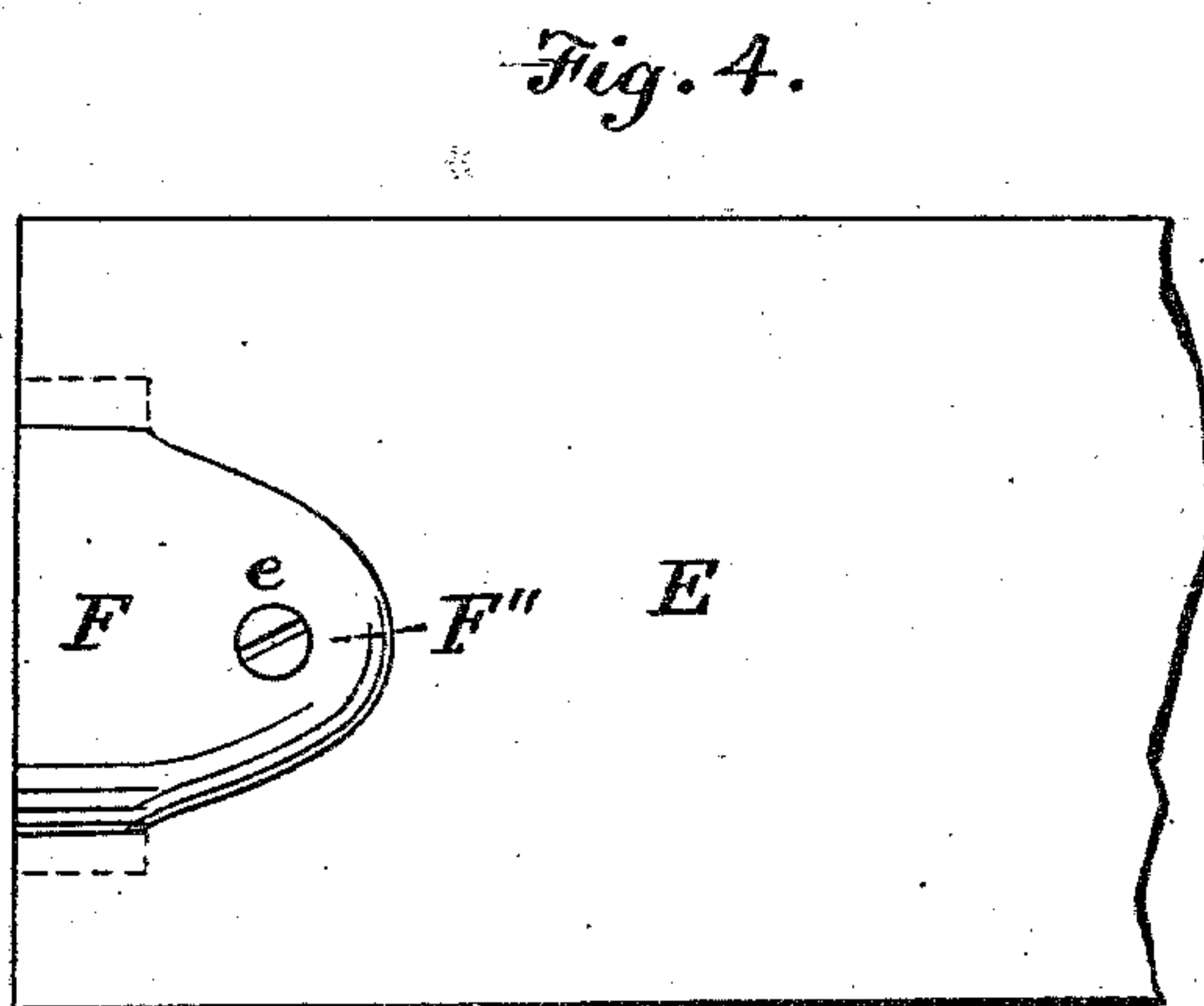
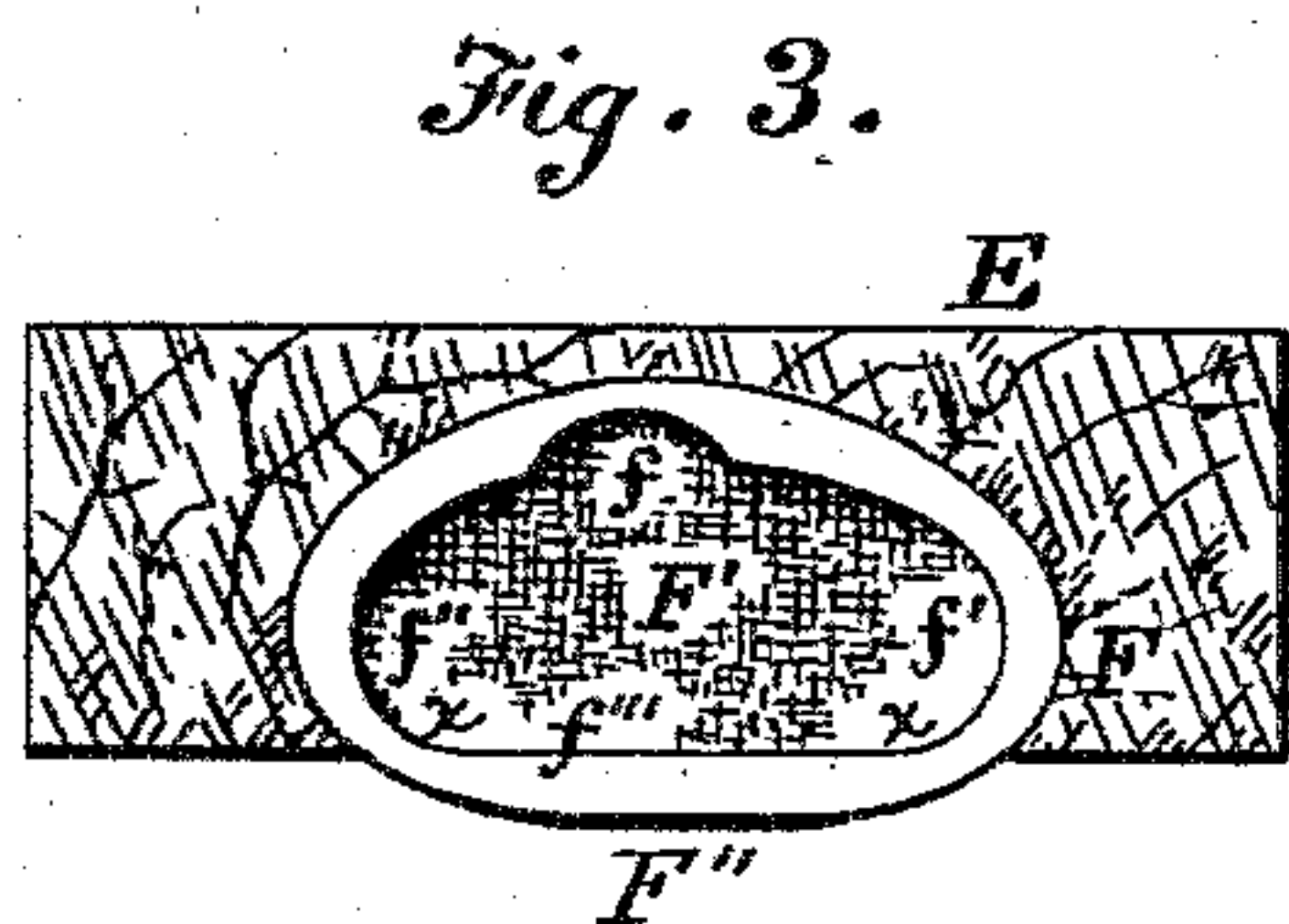
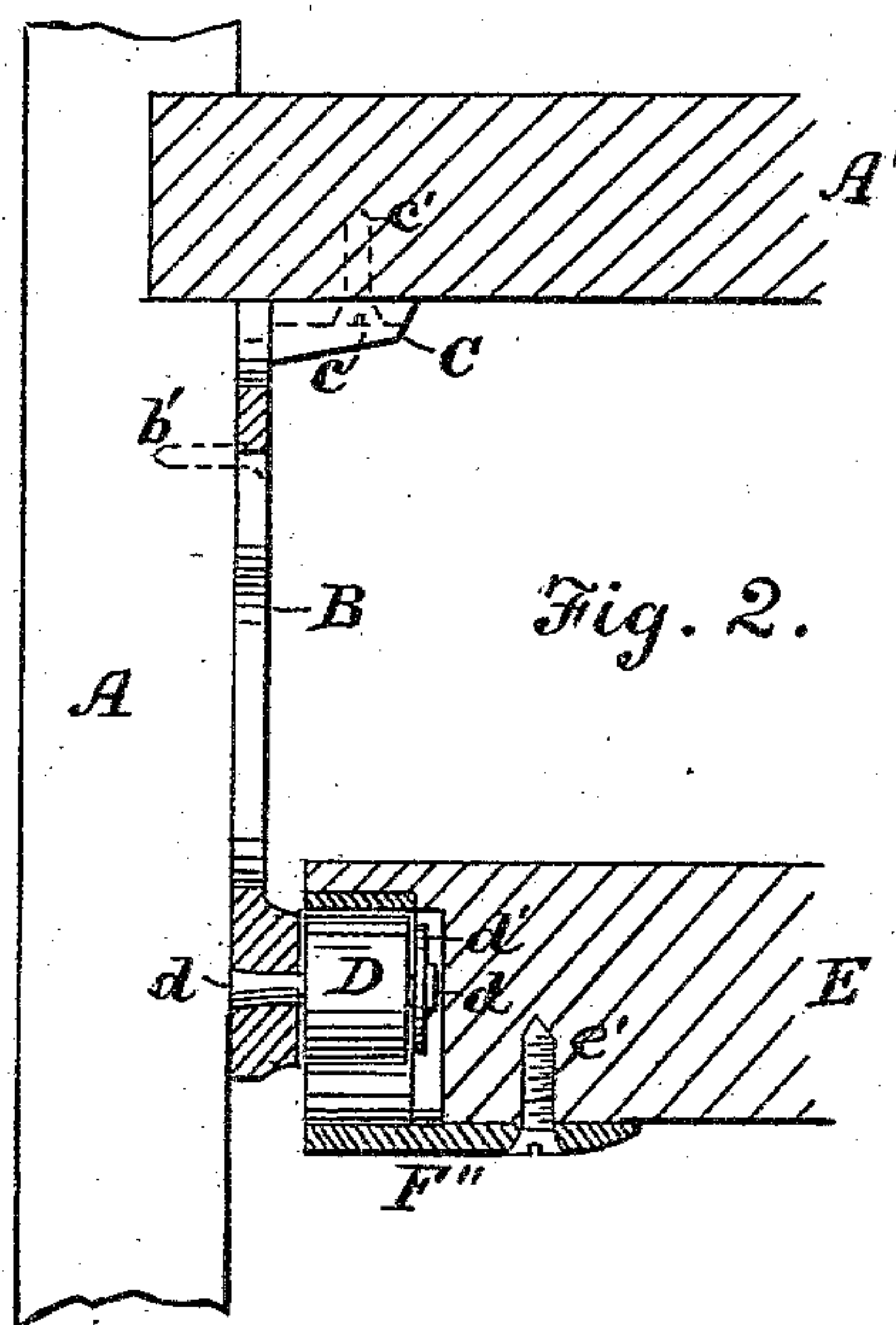
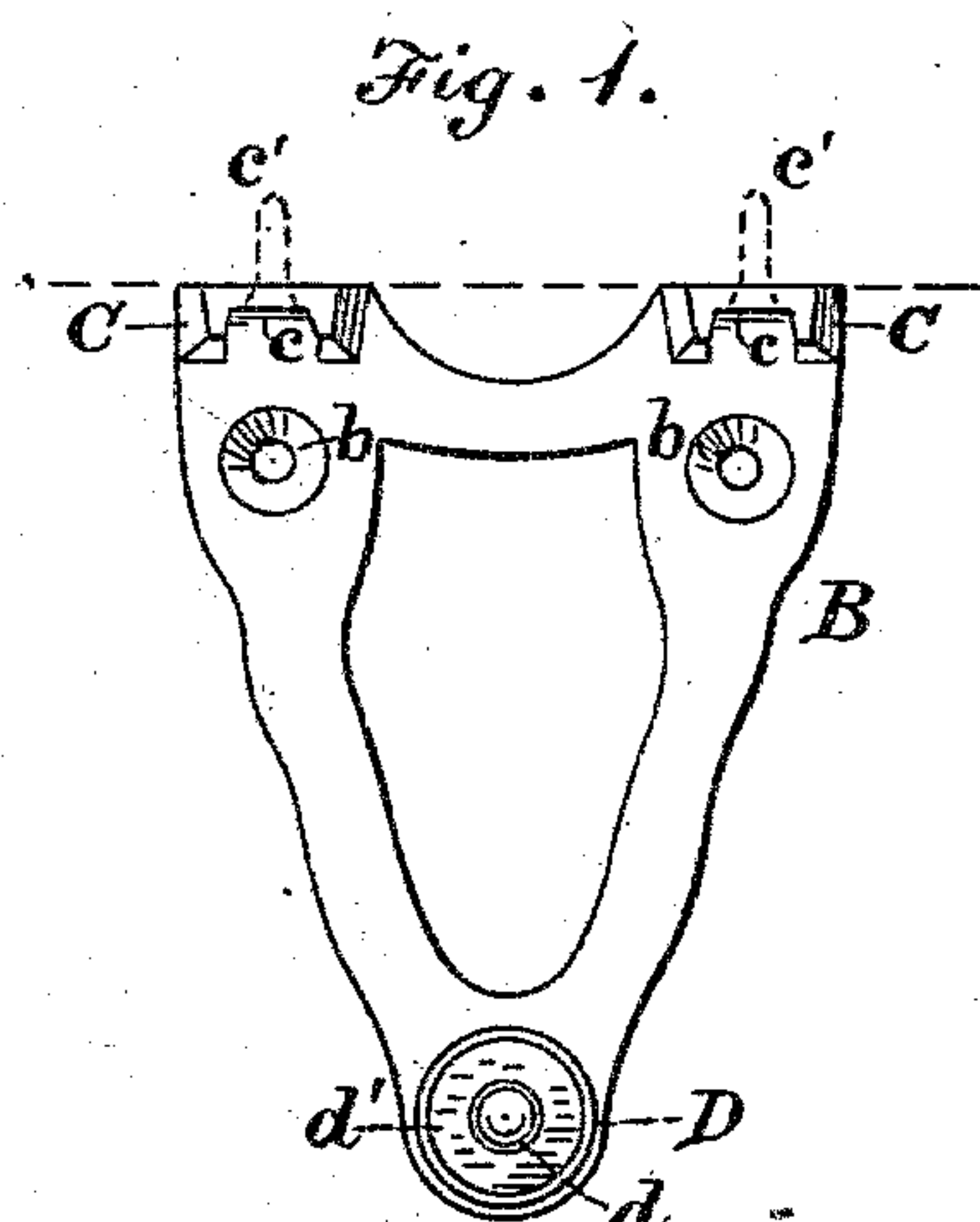


(No Model.)

W. S. HOLLAND.
HANGING FOR WINDOW SHADES.

No. 295,396.

Patented Mar. 18, 1884.



Witnesses:
W. T. Burris
H. A. Daniels

Inventor:
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UNITED STATES PATENT OFFICE.

WALLACE S. HOLLAND, OF BURLINGTON, VERMONT.

HANGING FOR WINDOW-SHADES.

SPECIFICATION forming part of Letters Patent No. 295,396, dated March 18, 1884.

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

To all whom it may concern:

Be it known that I, WALLACE S. HOLLAND, a citizen of the United States, residing at Burlington, in the county of Chittenden and State of Vermont, have invented certain new and useful Improvements in Hangings for Inside Window-Shades or Window-Blinds, of which the following is a specification, reference being had therein to the accompanying drawings.

The object of this invention is to improve the hangings for operating inside Venetian window blinds, shades, or screens; and it consists in the construction of the operating parts, their combination with each other and with such other actuating parts that make the improvement in operating the blinds.

In the drawings, Figure 1 represents a face view of a metal bracket. Fig. 2 represents an edge view of the bracket and its attachments. Fig. 3 represents an end view of the top slat and the metal hanger attached thereto; and Fig. 4 represents the under side of the top slat, showing the mode of attaching the hanger thereto.

A represents the side jamb of a window-frame in edge view, and A' the top or transverse jamb.

B represents a metal bracket, preferably in the form shown in Fig. 1, having screw-holes *b b* therein, to receive screws *b'*, that secure the bracket to jamb A, and at its upper end has two flanges, C, projecting at right angles to the back, and holes *c c* through them to receive the screws *c' c'*, that hold the flanges to the top jamb, A', as seen in Fig. 2. At the lower end of brackets B is a metal pin, *d*, projecting inward a proper distance to receive a friction-roller that will freely revolve thereon.

D is a friction-roller, that freely revolves on pin *d*, and *d'* is a washer on pin *d* and inside of roller D, and secured to pin *d* in any known way, to prevent roller D from leaving its position on pin *d*.

E is the top slat or the hanging slat of an inside blind or shade to a window or other opening, in which the blind or shade is to oscillate to regulate the openings between the slats of the blind or shade.

F is the metal hanger, inserted in the end of the upper or hanging slat, E, as seen in

Figs. 2, 3, and 4, having in end view an opening, F', in form of an ellipse, with an arc of a circle, *f*, above the line of the ellipse, and situated to one side of a perpendicular and center line through the ellipse, the end circles, *f'* and *f''*, terminating at *x x*, with a straight base-line, *f'''*. To hold the hanger F to the slat E, a flange, F'', extends beyond the body of the hanger, and on the under side of slat E, with a hole, *e*, therein, through which hole screw *e'* is driven into the slat E, as seen in Figs. 2 and 4. The hangers are constructed in pairs, or one the reverse of the other.

The bracket B, constructed as described, with the right-angled flanges C and screwed fast to the window-jamb, forms a strong and immovable support to the blind or shade, and, having the friction-roller D on the inwardly-projecting pin *d*, affords an easy and perfect means for vibrating and moving the top slat, E, thereon to give the desired position to the lower slats of the blind or shade that are attached in the usual way to slat E.

The hanger F, having the form of opening seen in Fig. 3, with the arc of a circle, *f*, resting upon the friction-roller D, the upper slat will be in or nearly in a horizontal position, and if moved so that the friction-roller D is in the end circle, *f'*, the slats in the blind will be partially closed and inclined in one direction; but if the top slat be moved so that the roller D rests in circle *f''*, the opposite side being heavier and longer from the bearing on the roller, the slats will be closed or overlap each other in a contrary inclination from that when the circle *f'* of the hanger rests on the roller D of bracket B.

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

1. The bracket B, having the right-angled flanges C, the projecting pin or axle *d*, and the roller D thereon, constructed to operate as and for the purposes described.

2. The hanger F, having the end opening, F', with arcs of circles *f f' f''*, straight base *f'''* therein, and flange F'', with screw-hole *e* therein, as described.

3. The hanger F, having the opening F', and arcs of circles *f f' f''*, straight base *f'''*,

and flange F'', having screw-hole *e* therein, in combination with the top slat, E, of an inside window-blind, as and for the purposes described.

- 5 4. The combination of the hanging slat E and hanger F with the bracket B, having friction-roller D thereon, and operating substantially as described.

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

WALLACE S. HOLLAND.

Witnesses:

GEO. A. POPE,
W. E. MARSH.