(No Model.)

F. A. WINSLOW.

SLIDING DOOR FASTENER.

No. 541,139. Patented June 18, 1895.

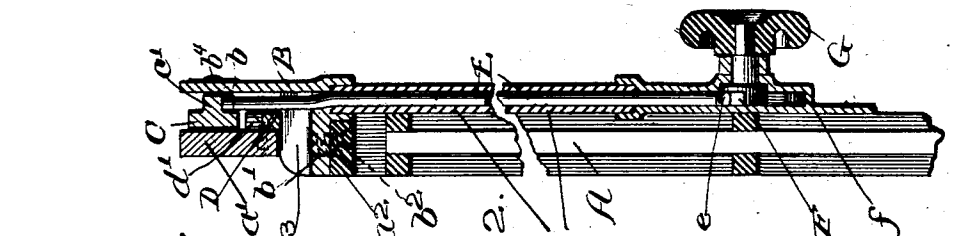


Fig. 2.

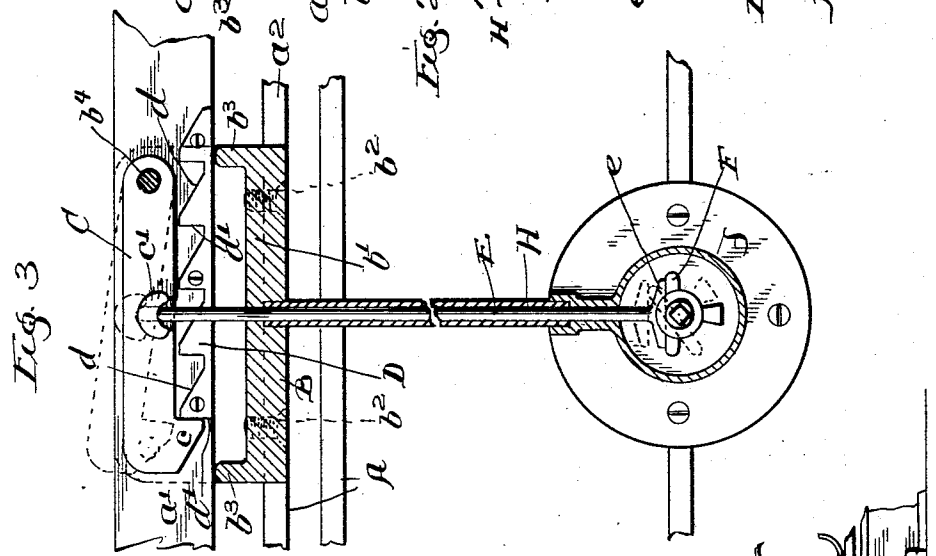


Fig. 3

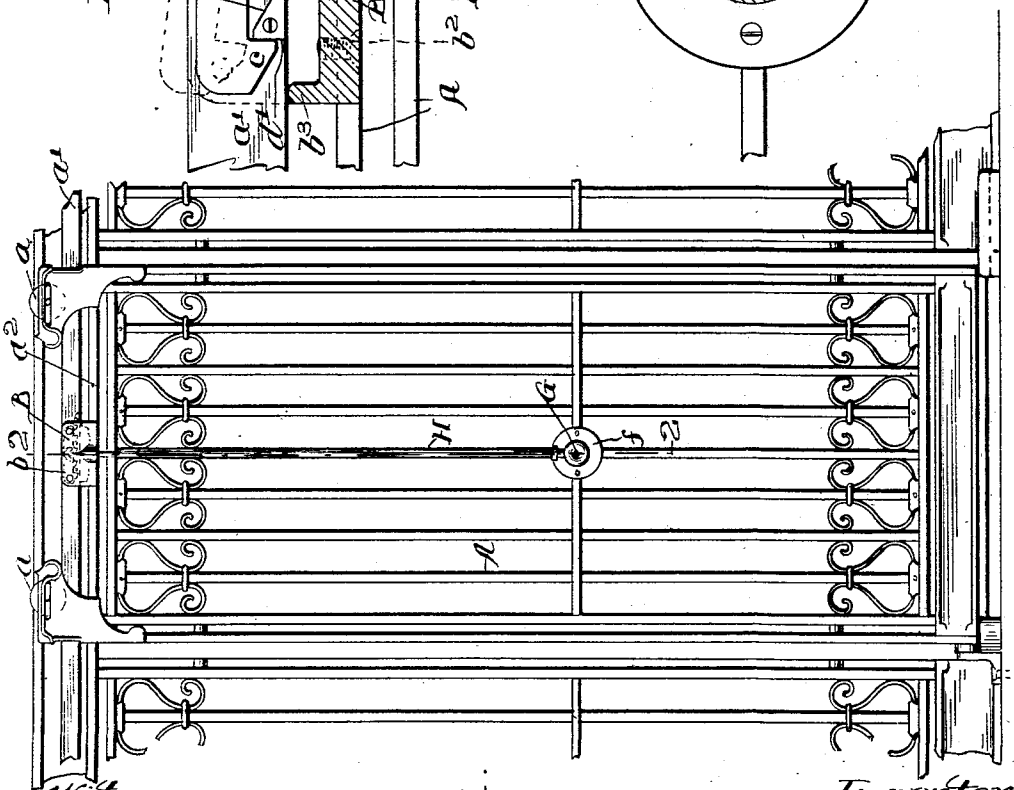


Fig. 1.

Witnesses:
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRANCIS A. WINSLOW, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE WINSLOW BROTHERS COMPANY, OF ILLINOIS.

SLIDING-DOOR FASTENER.

SPECIFICATION forming part of Letters Patent No. 541,139, dated June 18, 1895.

Application filed January 14, 1895. Serial No. 534,792. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS A. WINSLOW, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Latches for Elevator-Doors and the Like, of which the following is a specification.

My invention relates to a certain new and improved latch for elevator doors designed with special reference to simplicity and compactness and satisfactory operation combined with a neat and pleasing appearance.

To such end the invention consists in certain features of construction fully described below and defined in the claims hereto annexed.

The drawings present three views illustrating my invention, of which—

Figure 1 is a side elevation of an elevator-door, looking from the inside. Fig. 2 is a broken vertical section, upon a larger scale, taken in line 2 2 of Fig. 1; and Fig. 3 is an inner elevation, partly in section, of the latch and its connection.

In the figures the elevator door is lettered A and is carried upon rollers, *a*, running upon a track, *a'*, in the usual manner. To the top rail, a^2, of the door is secured a cover or casing, B, having a flat vertical portion, *b*, and a horizontal lateral extension, *b'*, which is fastened to the top rail by means of the screws, b^2, b^2. This lateral extension has marginal ribs, b^3, b^3, extending upward to within a slight distance of the track, *a'*, and their function is to prevent the accidental raising of the door from the track. Behind the vertical portion, *b*, of the casing is pivoted a gravity latch, C, by means of a pin or stud, b^4, and said gravity latch is provided at its free end with a downwardly hooked head, *c*, which engages with a catch, D, supported upon the side of the track, *a'*. This catch has an inclined side, *d*, to raise the latch when the door is opened and an abrupt or vertical side, *d'*, to engage the catch and prevent the closing of the door. In the drawings a series of these catches are arranged side by side, the object being to guard against the failure on the part of the operator to entirely close the door, in which case one of the additional catches is intended to prevent the door from being thrown wide open.

The latch, C, is raised by means of a sliding rod, E, engaging with a lug, *c'*, and extending downward where it has a broadened base, *e*, resting upon an oscillating rest, F, pivoted in a casing, *f*, secured to the middle portion of the door. This rest is tilted by means of a knob, G, and its oscillation in either direction raises the rod, E, and releases the latch, C. Between the casing, *f*, and the casing, B, the rod, E, is shielded by means of a tube, H, firmly secured in place so that no manipulation of the rod from the outside is possible.

I claim as new and desire to secure by Letters Patent—

1. The combination with a door composed of open, or grille work, of a latch at the margin thereof, an operating rod engaging therewith and extending therefrom to a convenient point and there provided with a handle shielded by suitable means from the reach of persons upon the opposite side of the door, and a protecting tube secured to the door and inclosing the exposed portion of the rod; substantially as described.

2. The combination of the door, A, of a latch located at the top thereof, an operating rod extending downwardly from the latch and having a horizontally flattened bottom and an oscillating operating handle provided with a horizontal rest to sustain the flattened body of the rod; substantially as described.

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Witnesses:
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