

No. 829,436.

PATENTED AUG. 28, 1906.

A. SEAHOLM.
FIRE ESCAPE DOOR.
APPLICATION FILED NOV. 1, 1905.

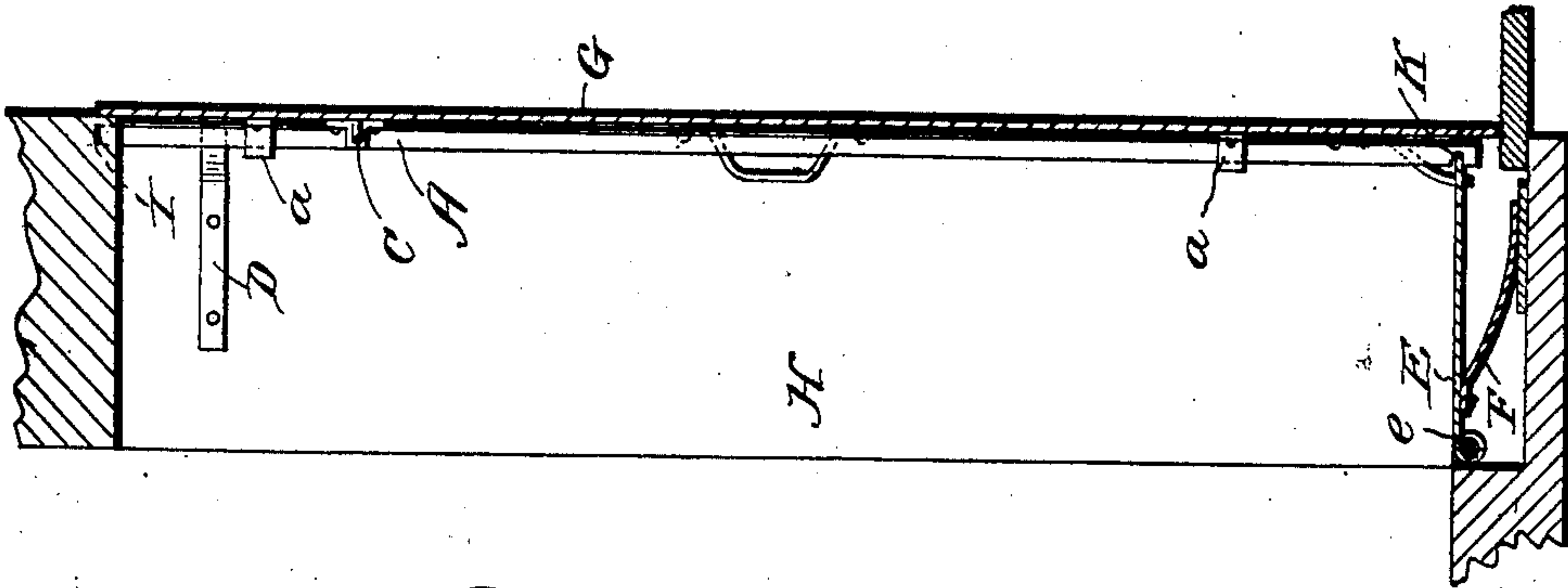


Fig. 2.

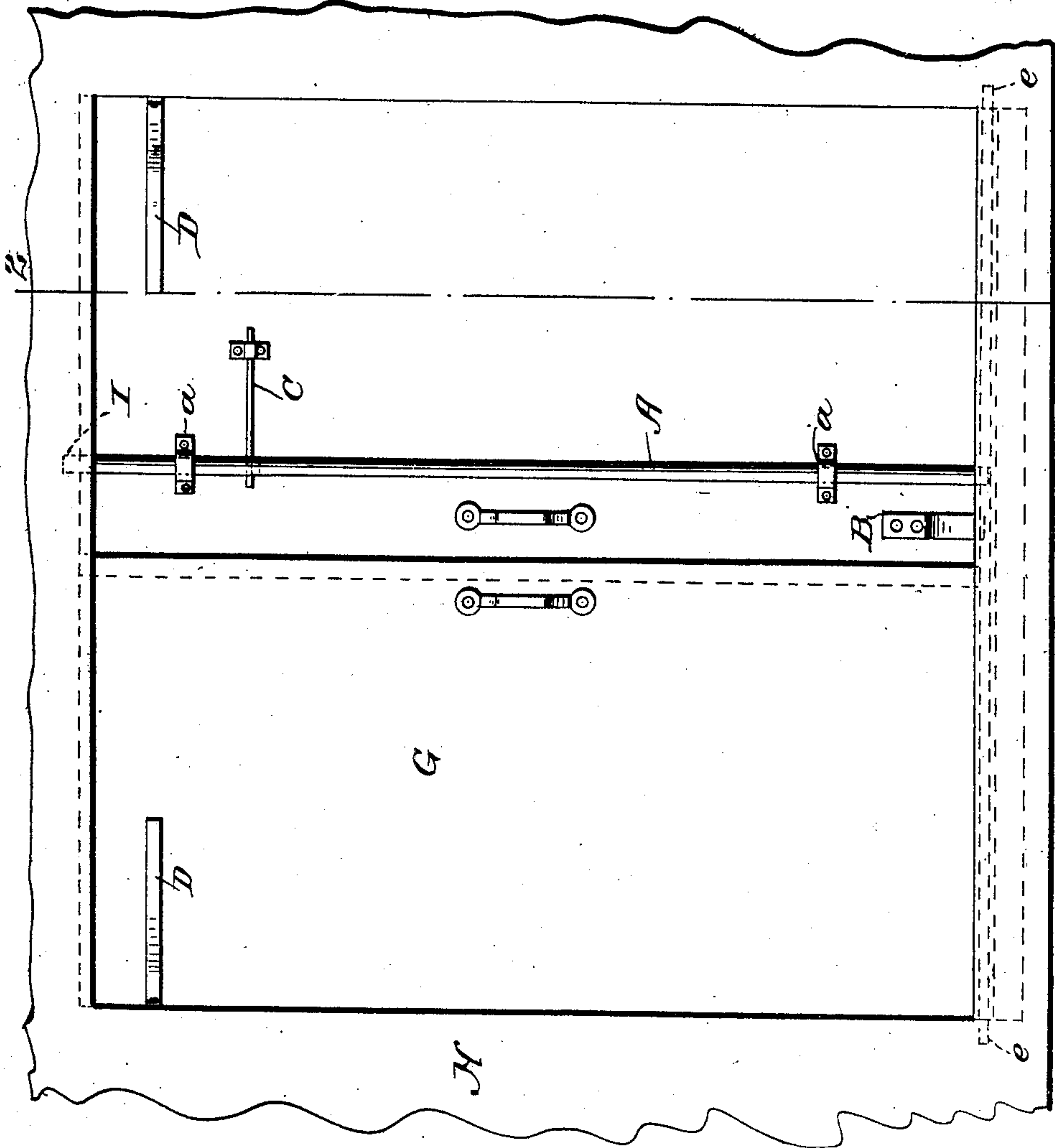


Fig. 1.

Witnesses
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UNITED STATES PATENT OFFICE.

ALFRED SEAHOLM, OF CHICAGO, ILLINOIS.

FIRE-ESCAPE DOOR.

No. 829,436.

Specification of Letters Patent.

Patented Aug. 28, 1906.

Application filed November 1, 1905. Serial No. 285,486.

To all whom it may concern:

Be it known that I, ALFRED SEAHOLM, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Fire-Escape Doors, of which the following is a specification.

This invention relates to fire-escape doors, and particularly to a means for opening such doors in emergencies, said means comprising a bolt which normally holds the door locked, but which will be operated to release the door by means of a connection with a plate at the threshold, so that when a person steps upon said plate upon approaching the door the latter will open without further manipulation.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is an elevation, and Fig. 2 is a vertical section on the line 2 2 of Fig. 1.

Referring specifically to the drawings, G indicates a hinged door, usually or preferably fireproof, opening outward from the wall H, in which it is set. Double doors are shown, which are lapped in the usual manner, so that only one locking device is necessary. The locking device comprises a vertical bolt A, which slides under straps *a*, secured to the door. Its upper end enters a socket I in the lintel to hold the door closed. At the bottom of the door is a fixed catch B, which enters a hole in the plate E, which forms the threshold or door-sill. This plate is hinged at *e*, at the inner edge of the wall, and its outer edge swings adjacent to the bottom of the door. Under the plate E is a recess containing a spring F, which tends to lift said plate. The bolt A has at its lower end a notch K, in which the free edge of the plate E is engaged. Springs D are secured to the

sides of the doorway and press against the doors, tending to open the same. C indicates a spring which is secured to the door and engages the bolt A and normally lifts the same, holding it in locked position.

In operation when the sill-plate E is stepped upon it swings down, releasing the catch B and pulling down the bolt A, releasing the same from the socket I. Then the springs D throw the doors open. The doors are locked by closing the same from the inside and then stepping off the plate E, causing said plate to lift and engage the catch B and raise the bolt A into its socket.

The floor or platform on the outside of the door is necessarily lower than the bottom of the latter, so that it may swing thereover.

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

1. The combination with a door, of a vertically-sliding bolt carried thereby, engageable at its head in a socket in the lintel and having a notch in its foot, and a yielding sill-plate engaged at its edge in the notch, to pull down the rod when stepped on.

2. The combination with a door, of a vertical sliding bolt carried thereby and engageable at its head in a socket in the lintel, a catch projecting downwardly at the lower end of the door, and a hinged spring-supported sill-plate engageable with the bolt and having a hole in which said catch is engaged.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALFRED SEAHOLM.

Witnesses:

NELLIE FELTSKOG,
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