

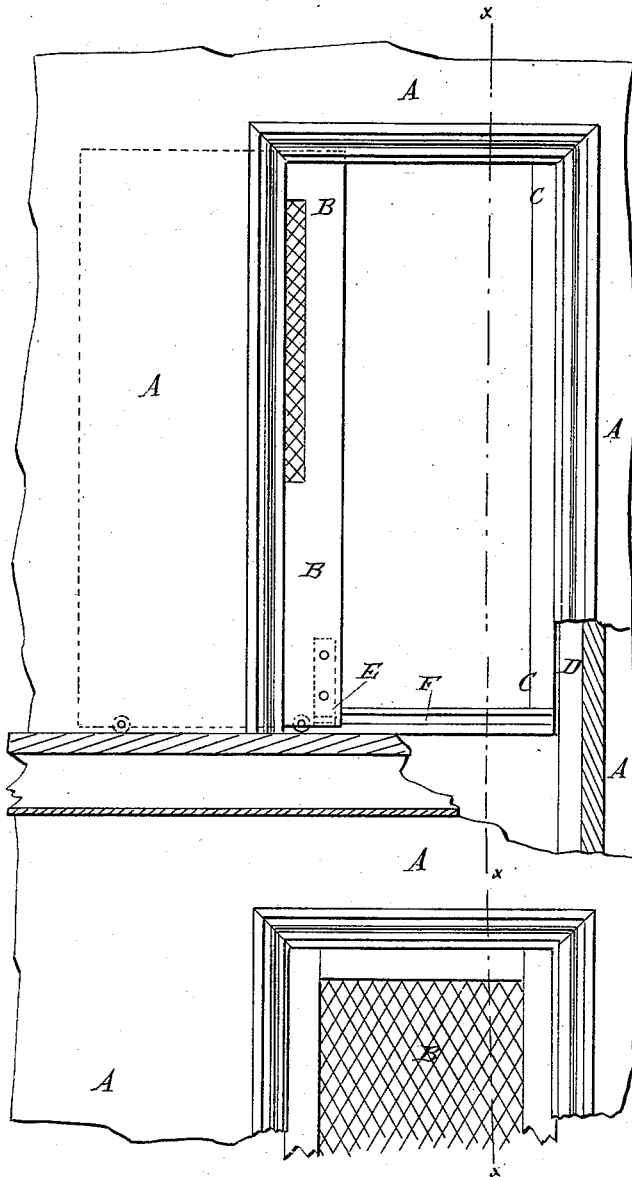
(No Model.)

C. W. HAYS.  
ELEVATOR.

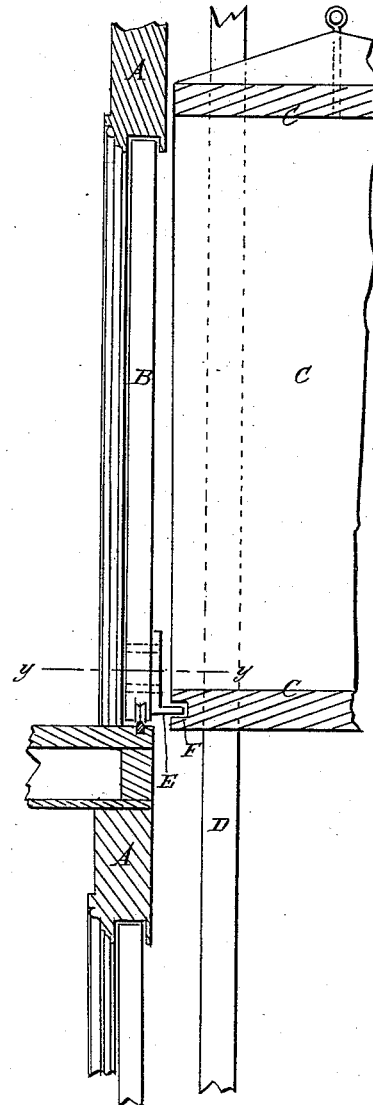
No. 306,156.

Patented Oct. 7, 1884.

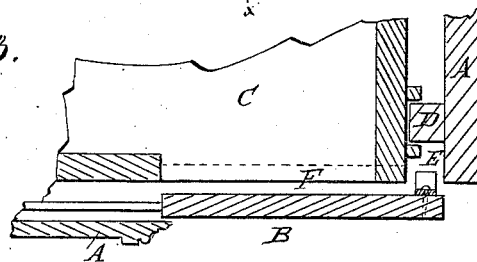
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES:

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INVENTOR:

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# UNITED STATES PATENT OFFICE.

CHARLES W. HAYS, OF ORANGE, NEW JERSEY.

## ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 306,156, dated October 7, 1884.

Application filed January 31, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES W. HAYS, of Orange, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Elevators, of which the following is a full, clear, and exact description.

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

Figure 1 is a front elevation of a part of an elevator to which my improvement has been applied, part being broken away. Fig. 2 is a sectional elevation of the same taken through the line *x x*, Fig. 1. Fig. 3 is a sectional plan view of a part of the same taken through the line *y y*, Fig. 2.

The object of this invention is to promote security in the use of elevators.

The invention consists in an elevator constructed with an arm attached to the well-door to engage with the carriage when the said door is open and prevent said carriage from moving up or down before the door is closed, as will be hereinafter fully described, and pointed out in the claims.

A represents the wall of a building. B is a door opening into the elevator-well. C is the carriage, and D are the guide-posts upon which the carriage C moves up and down.

To the lower part of the door B is attached an arm, E, which projects inward, so as to enter a groove, F, in the edge of the floor of the carriage C when the door is open, so that the said carriage cannot move either up or down while the said door is open. When the door B is closed, the arm E projects into the space between the carriage C and the wall of the ele-

vator-well, as shown in Fig. 3, so as to leave the carriage C free to move. The arm E may be made forked, to engage with the upper and lower sides of the floor of the carriage C, if desired; and the said arm E can be applied to the lower part of the door, as shown in the drawings, or to the upper part of the said door, as may be desired or convenient. With this construction the elevator-carriage will be locked in place when the door is open, and cannot move up or down until the said door is closed, so that it will be impossible for the door to be left open when the elevator-carriage moves away from the floor where the said door may be, and people will thus be prevented from walking through the doorway into the elevator-well, thinking they are entering the carriage.

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

1. In an elevator, the combination, with the carriage and the well-door, of an arm secured to said door and engaging the carriage when the door is open and disengaged therefrom when the door is closed, substantially as herein shown and described.

2. In an elevator, the combination, with the carriage C, provided with the groove F and the well-door B, of the arm E, secured to the door and working in the groove of the carriage when the door is open and into the space between the carriage and wall when the door is closed, substantially as and for the purpose specified.

CHARLES W. HAYS.

Witnesses:

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