2 Sheets—Sheet 1.

L. PARÉ.
Hatchway.

No. 201,356. **Patented March 19, 1878.**

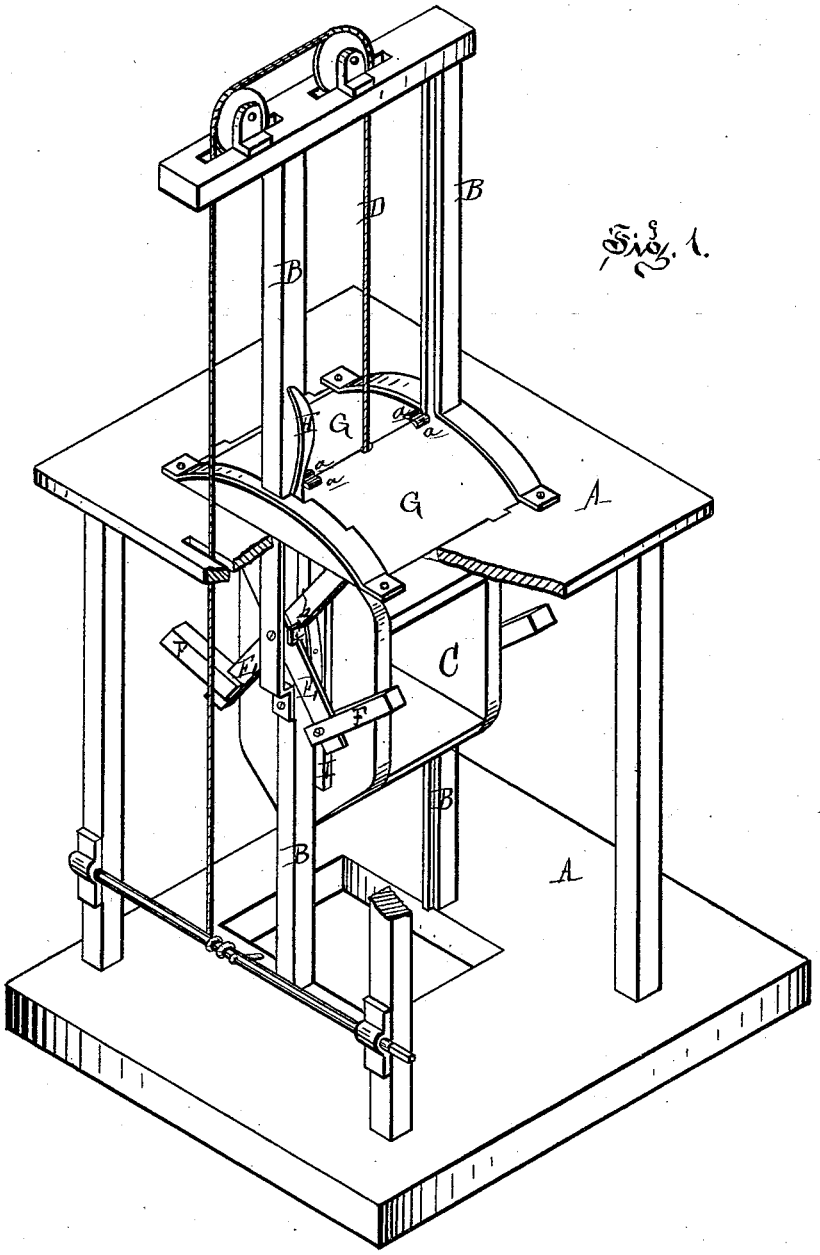
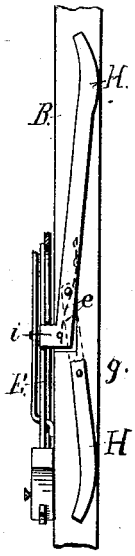


Fig. 1.

Fig. 5.



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2 Sheets—Sheet 2.

L. PARÉ.

Hatchway.

No. 201,356. **Patented March 19, 1878.**

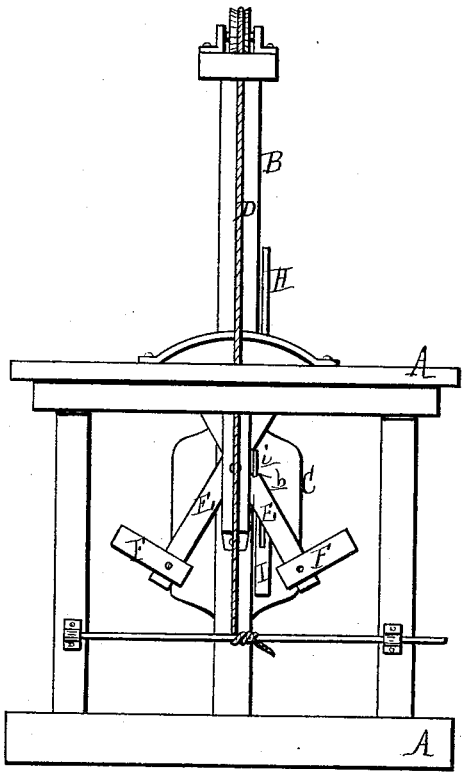

Fig. 2.

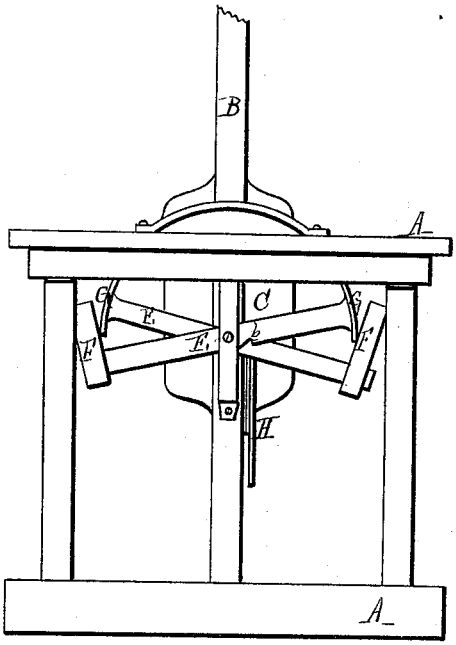

Fig. 3.

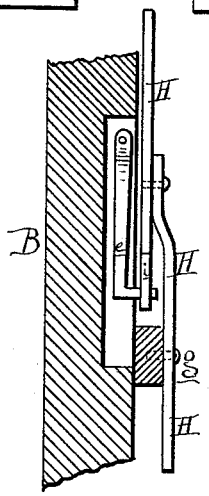

Fig. 4.

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UNITED STATES PATENT OFFICE.

LOUIS PARÉ, OF DETROIT, MICHIGAN.

IMPROVEMENT IN HATCHWAYS.

Specification forming part of Letters Patent No. **201,356**, dated March 19, 1878; application filed December 8, 1877.

To all whom it may concern:

Be it known that I, LOUIS PARÉ, of Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Devices for Closing Elevator-Hatchways; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and being a part of this specification.

The nature of this invention relates to an improvement in devices for closing elevator-hatchways, the same being operated by the elevator in its passage up or down, and in such a manner that the hatchways are always closed, except at such times as the elevator is passing through them.

The invention consists in a series of hatches or covers arranged at each hatchway, and secured to the elevator guide-posts by crossed levers, and in a peculiar locking device for locking said covers, when closed, the whole being operated by the elevator in its passage up or down, as is more fully hereinafter set forth.

Figure 1 is a perspective view of my device as arranged at one floor or hatchway, with a portion of the floor broken away to show the arrangement of parts. Fig. 2 is a side elevation with the hatches closed. Fig. 3 is a side elevation with the hatches open. Fig. 4 is a sectional view, showing the spring which actuates the locking-levers. Fig. 5 is a view of one of the guide-posts, showing the compound lever in front elevation and a side view of a portion of one set of the crossed levers.

In the drawing, A A represent, respectively, the first and second floors of a building, having hatchways cut in them, and in which are erected the guide-posts B B, between which the elevator C is hoisted or lowered by means of the hoist rope or cable D.

Pivoted to the outside of the guide-posts B are two crossed levers, E, carrying at their lower ends counter-weights F, while to their upper ends are rigidly secured the segmental hatches or covers G. In the ends of the abutting edges of these covers are suitably-journaled friction-rollers *a*.

H is a compound lever pivoted to one of the guide-posts B, at *g*, and is provided with a locking-stud, *i*, which projects into a recess, *b*, formed in the edges of the cross-levers E, at such time as the hatch is closed, such engagement being compelled by the action of the spring *e*, which is recessed in the post at the back of the lever H.

Each end of the elevator is extended above and below the floor and ceiling thereof, as shown, to a point, and the edges of the sides should be covered or bound with metallic strips. Upon one side of the elevator is secured a projecting strip, I. As the elevator is raised by means of the hoist-rope, the strip I comes in contact with the lower arm of the compound lever H, forces it outwardly, and retracts the lock *i* from its engagement with the crossed weighted levers E. In its continued upward movement the upper points of the elevator sides enter between the friction-rollers *a*, and force the hatches back and down into the position shown in Fig. 3, and as it passes onto the next floor the weights F compel the hatches to close and lock, and they remain in such position until opened by the descending elevator, the action of parts being the same as above described, except that the disengagement of the locking device is effected by the strip I coming in contact with the upper end of the compound lever.

It will be necessary, where there is more than one hatchway to be closed, to erect a device, as above described, at each floor.

Preferably the hatch-covers should be made of sheet metal, in segments of circles, so arranged in combination with the actuating-levers that, when entirely closed, the ascent of currents of air is cut off, thereby lessening the danger of fire ascending an open hatchway from one floor to another.

What I claim as my invention is—

1. An elevator-hatchway consisting of two segmental covers or hatches, G, secured to the ends of crossed levers E, which are pivoted to the guide-posts below the hatchway and have counter-weights on their lower ends, substantially as described.

2. In combination with said counterbalanced lever and segmental covers, the compound-levers locking device actuated by the passage of the elevator-cab, substantially as set forth.

LOUIS PARÉ.

Witnesses:
H. SPRAGUE,
CHAS. THURMAN.