

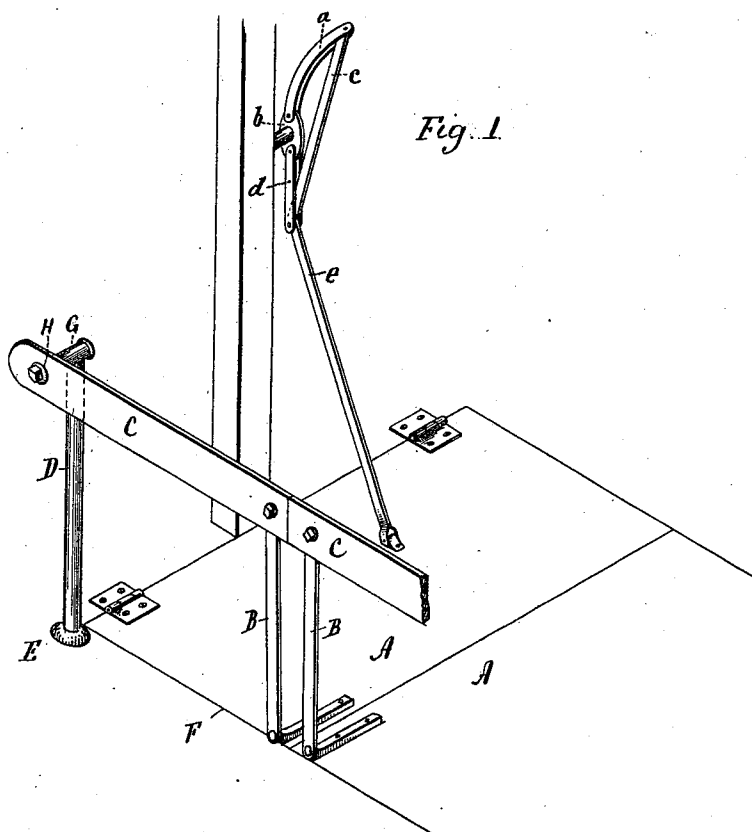
(No Model.)

2 Sheets—Sheet 1.

C. B. JONES.
ELEVATOR GATE AND DOOR.

No. 523,639.

Patented July 24, 1894.



Witnesses.
J. H. Murray
William D. Kellogg

Charles B. Jones
Inventor.
By atty
Earle Seymour

(No Model.)

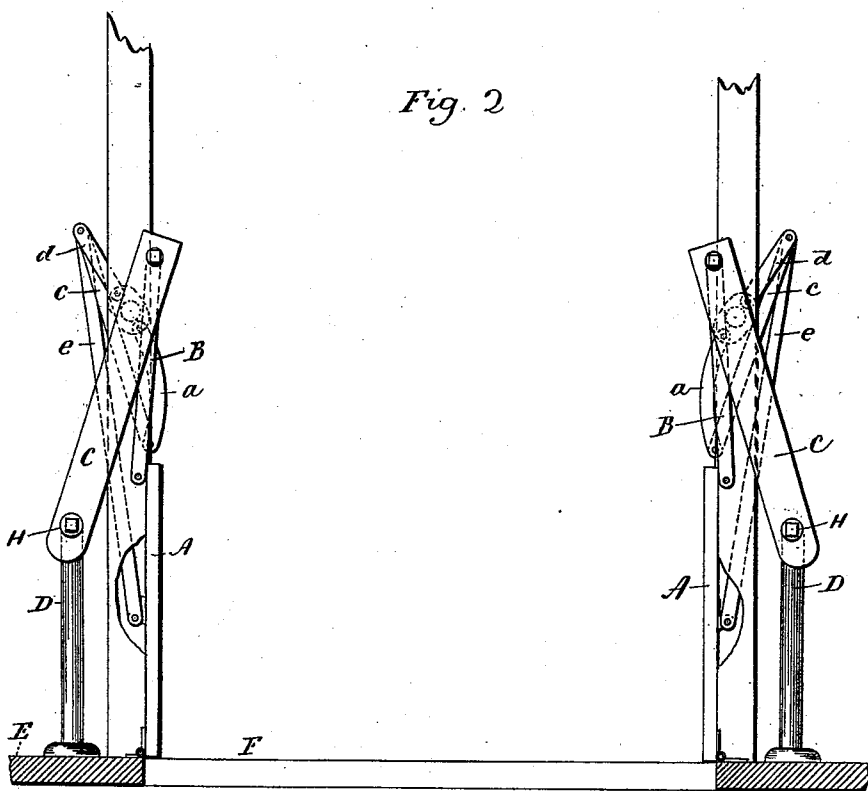
2 Sheets—Sheet 2.

C. B. JONES.
ELEVATOR GATE AND DOOR.

No. 523,639.

Patented July 24, 1894.

Fig. 2



Witnesses.
J. H. Shumway
Lillian D. Kellogg

Charles B. Jones
Inventor.
By Atty
Earle Seymour

UNITED STATES PATENT OFFICE.

CHARLES B. JONES, OF NEW HAVEN, CONNECTICUT, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE NEW HAVEN ELEVATOR GUARD COMPANY, OF SAME PLACE.

ELEVATOR GATE AND DOOR.

SPECIFICATION forming part of Letters Patent No. 523,639, dated July 24, 1894.

Application filed April 2, 1894. Serial No. 506,032. (No model.)

To all whom it may concern:

Be it known that I, CHARLES B. JONES, of New Haven, in the county of New Haven and State of Connecticut, have invented a new
5 Improvement in Elevator Gates and Doors; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description
10 of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a view in perspective of a pair of elevator-well doors provided with one form
15 which gates constructed in accordance with my invention may assume; Fig. 2, a view partly in vertical section and partly in front elevation showing the doors and gates in their open positions.

20 My invention relates to an improvement in guards for elevators, the object being to render the same doubly safe by a very simple and inexpensive device.

With these ends in view, my invention consists in the combination with a pair of elevator-well doors arranged in the plane of a
25 floor, of two gates having their outer ends pivotally connected with fixed supports, and their inner ends pivotally connected with the
30 respective doors so as to open and close with the same.

My invention further consists in certain details of construction as will be hereinafter described and pointed out in the claims.

35 As herein shown the elevator-well doors A are of ordinary construction, and automatically opened and closed by any suitable mechanism, devices for this purpose being well known. For illustration, I have shown
40 a lever mechanism consisting of a rotatable head *b*, a bowed operating-arm *a* rigidly connected at its lower end with the said head, and extending upward therefrom, a straight arm *d* rigidly connected at its upper end with
45 the said head, and extending downward therefrom, a brace *c* uniting the outer ends of the arms *a* and *d*, and a rod or link *e* connecting the lower ends of the brace *c*, and the arm *d*,
50 operated by lever-mechanism, duplicating

that described. When the elevator car descends, its lower end strikes and depresses the upper ends of the operating-arms, and thus opens the doors, which close by gravity, following the car in its descent. When the car
55 ascends its upper end lifts and opens the doors. Two links or rods B B respectively pivoted at their lower ends to the outer ends and at the inner corners of the doors, are respectively pivoted at their upper ends to the
60 inner ends of two normally horizontal gates C C, the outer ends whereof are pivoted to the upper ends of stationary posts D D, secured to the floor E to which the doors are attached, located on opposite sides of the elevator-well F so as to be quite out of the way,
65 and provided with bearings G G extending horizontally from their upper ends to receive the studs H H on which the outer ends of the gates are hinged.
70

Under the described construction, the gates C C will assume the horizontal positions in which they are shown by Fig. 1 of the drawings when the doors are closed, and be thrown
75 upward and outward as shown by Fig. 2 of the drawings when the doors are automatically opened. It will thus be seen that when the doors are closed, the gates are in position to prevent any one from walking in upon the doors and thus exposing themselves to accident by the sudden opening of the same preparatory to the approach of the elevator car from above or below the floor provided with the gates.
80

It is not essential that the gates have the particular construction shown and described, and I would therefore have it understood that I do not limit myself to the particular construction specified herein, but hold myself at liberty to make such changes and alterations
85 therein as fairly fall within the spirit and scope of my invention.
90

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—
95

1. The combination with a pair of elevator-well doors, of two normally horizontal gates located adjacent to the said doors, supported at their outer ends independently thereof, and respectively connected at their inner ends
100

therewith, substantially as described, and whereby the gates partake of the opening and closing movement of the doors.

2. The combination with a pair of automatic elevator-well doors, of two normally horizontal gates located adjacent thereto, and links or rods connecting the gates with the doors so as to open and close with the same, substantially as described.

10 3. The combination with a pair of automatic elevator-well doors, of two gates, supports to which the outer ends of the said gates

are pivoted, and links or rods connecting the inner ends of the gates with the respective doors which operate to open and close the gates when the said doors are opened and closed, substantially as described. 15

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

CHARLES B. JONES.

Witnesses:

JOHN G. CHAPMAN,

WILLIAM A. LINCOLN.