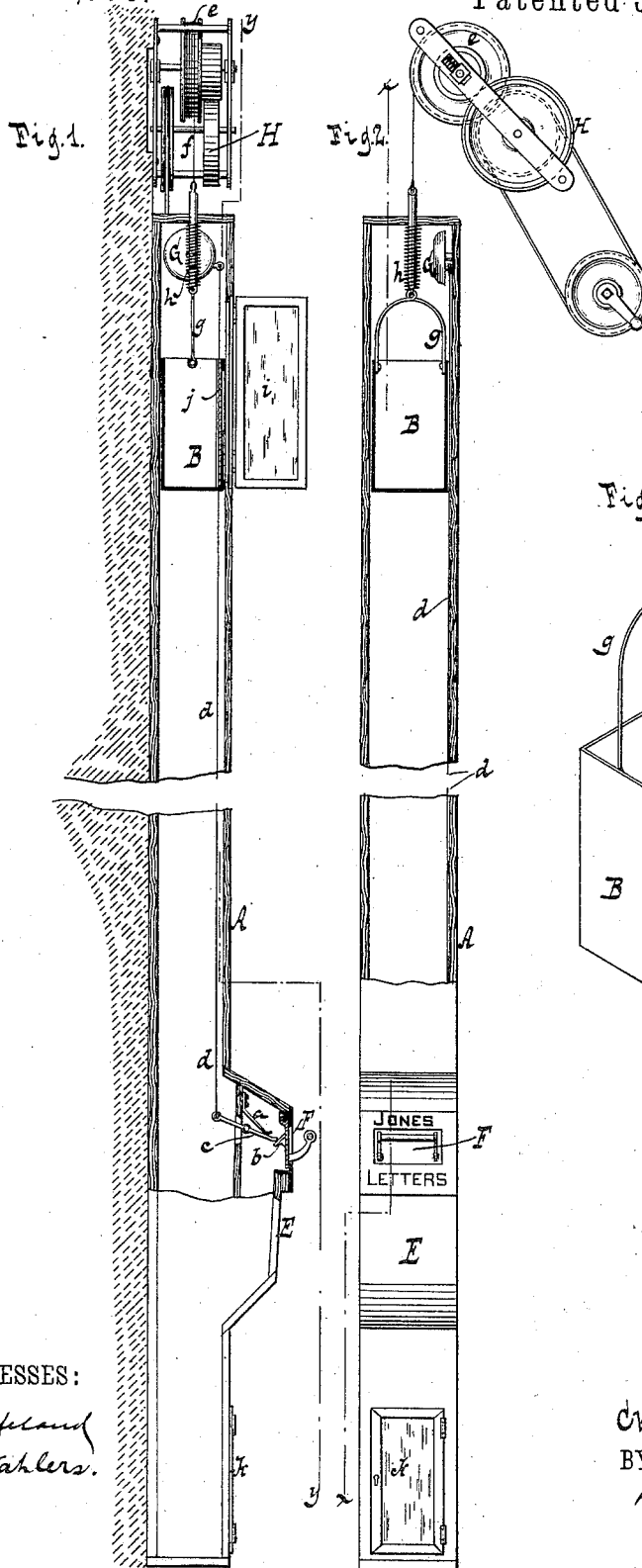


C. E. REID.  
ELEVATOR.

No. 302,776.

Patented July 29, 1884.



WITNESSES:  
*Otto Hufeland*  
*Char. Wahlers.*

INVENTOR  
*Charles E. Reid.*  
BY  
*Van Pentwood & Smith*  
ATTORNEYS

(No Model.)

2 Sheets—Sheet 2.

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Fig. 4.

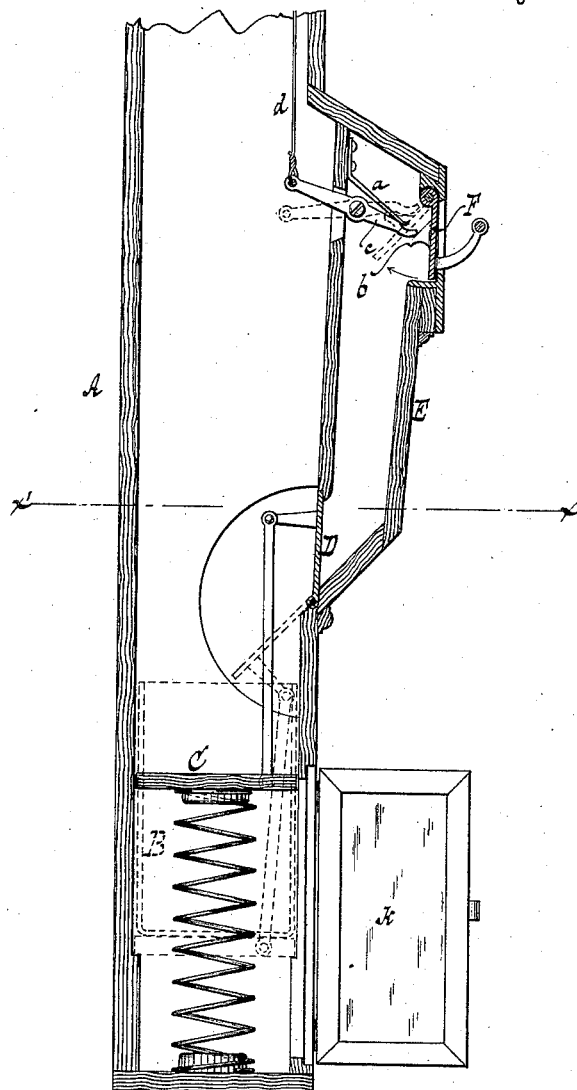
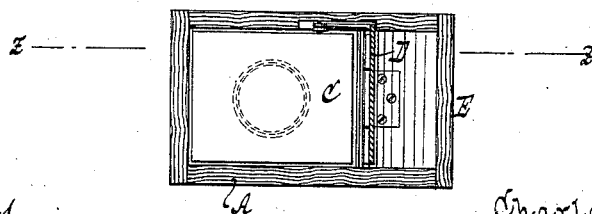


Fig. 5.



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# UNITED STATES PATENT OFFICE.

CHARLES E. REID, OF BROOKLYN, NEW YORK.

## ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 302,776, dated July 29, 1884.

Application filed June 5, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES E. REID, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Elevators, of which the following is a specification.

This invention relates to an elevator which is intended particularly for use in high dwelling-houses, the different stories of which are occupied by different families, so that letters or other articles dropped into the elevator in the lower story or basement can be raised to the story for which the same are intended without trouble.

The peculiar and novel construction of my elevator is pointed out in the following specification and claims, and illustrated in the accompanying drawings, in which—

Figure 1 represents a vertical section in the plane  $x x$ , Fig. 2. Fig. 2 is a vertical section in the plane  $y y$ , Fig. 1. Fig. 3 is a perspective view of the elevator-box on a larger scale than the previous figures. Fig. 4 is a vertical section of the lower portion of the elevator-well in the plane  $z z$ , Fig. 4, on a larger scale than the first two figures. Fig. 5 is a horizontal section in the plane  $x' x'$ , Fig. 4.

Similar letters indicate corresponding parts.

In the drawings the letter A designates the elevator-well, in which moves the elevator-box B. Said well is intended to extend from the first floor or from the basement to one of the upper floors of a building, and in dwelling-houses containing six or more stories, each arranged to be occupied by a separate family, I propose to place a sufficient number of elevator-wells to enable the occupants of each story to have access to its own distinct well. In the bottom of the well is a spring-supported platform, C, which connects with the trap-door D in the side of the well, (see Fig. 4,) so that when the elevator-box rests upon the platform C said platform is depressed and the trap-door D is opened, as indicated in dotted lines in Fig. 4. Through this trap-door letters or other articles can be introduced into the box B. In the example shown in the drawings, this trap-door is situated at the bottom end of a chute, E, which rises on the side

of the elevator-well A, and is provided with a hinged door, F, that is retained in its closed position by a spring,  $a$ . From the inside of this door projects a ledge,  $b$ , on which rests a lever,  $c$ , that extends into the well A and connects by a wire,  $d$ , with an alarm, G, situated in the upper part of the well A, so that whenever the door F is opened the alarm is sounded. If desired, the door F might be arranged directly in the side of the well A, so that when the same is opened the alarm is sounded and letters or other articles can be dropped into the box B supported upon the platform C; but I prefer the arrangement shown in the drawings, because the chute conducts the letters or other articles without fail into the boxes.

Above the well A is placed a pulley,  $e$ , on which is secured a cord,  $f$ , the lower end of which is fastened to the bail  $g$  of the box B, and with the pulley is connected a suitable winding apparatus, H, by means of which a rapid revolving motion can be imparted to said pulley for the purpose of winding up the cord  $f$  and raising the box B.

In order to prevent the box from slamming against the top of the well I have interposed a spring-cushion,  $h$ .

In the face of the well near its top end is a door,  $i$ , and the box B is provided with a slide,  $j$ , (see Figs. 1 and 3,) so that when the box is raised and the door  $i$  is opened the slide can easily be raised and the contents of the box can be readily removed.

By referring to Fig. 4 it will be readily understood that when the box is raised the spring-supported platform C follows and the door D is closed, so that nothing can be dropped through the chute E into the well A before the box has been lowered. If desired, a door,  $k$ , may be applied to the bottom part of the well, so as to obtain access in case of need.

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

1. In a mail-elevator, the combination of a carrier or box traveling therein, a spring-supported platform acted on by the carrier or box, a door located in the side of the well and closing access thereto from a chute attached to the side of the well, and a lever attached to the platform and the door, whereby the door

is kept closed until the platform is depressed by the carrier or box, substantially as described.

2. In a mail-elevator, the combination of the elevator-well, a chute or box attached to its side, a door in the side of the well for controlling the access from the chute or box to the well, a spring-platform, and a lever connecting the door and platform, all so arranged that the depression of the platform causes the opening of the door, while the platform in its normal position insures the closing thereof, substantially as described.

3. In a mail-elevator, the combination of the elevator-well, a carrier traveling therein, a chute or box on the side thereof at the place of introduction of matter into the carrier, a door giving access to the chute or box, an alarm mechanism at the desired place of delivery of the contents of the carrier, and connections from the door of the chute or box to the alarm, so that the opening of said door gives an alarm at such point of delivery, substantially as described.

4. In a mail-elevator, the combination of the elevator-well, a carrier traveling therein, a box or chute upon the side thereof, a door giving access to the box or chute, a door in the side of the well controlling communication

between the box or chute and the well, a spring acted on platform at the bottom of the well, a lever connecting the platform and the door in the side of the well, an alarm at the point of delivery, and connections to said alarm from the door of the chute or box, whereby access to the carrier from the chute is had only upon the depression of the platform by the carrier, and the opening of the door of the chute or box gives a signal at the proper point to raise or lower the carrier, substantially as described.

5. In a mail-elevator, the combination of the well, the box or chute E upon one side thereof, provided with door F for giving access thereto, a spring, a, acting normally to hold such door closed, an alarm, G, at the top of the well or place of delivery, and a cord, d, and lever c, connecting the alarm and door, whereby opening of the latter operates the alarm and gives a signal at the place of delivery, substantially as described.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

CHARLES E. REID. [L. S.]

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.