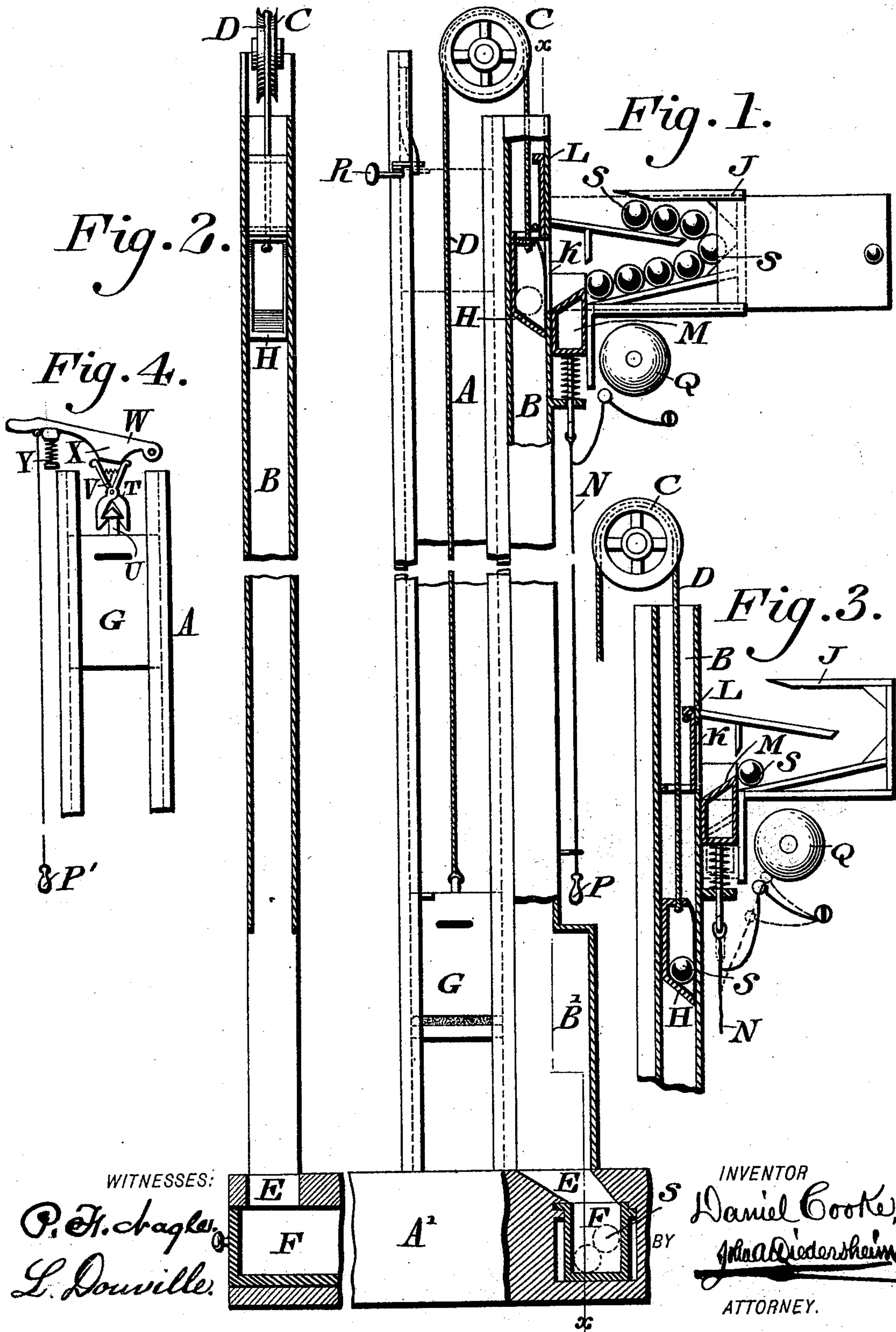


(No Model.)

D. COOKE.
APPARATUS FOR DELIVERING MAIL.

No. 516,522.

Patented Mar. 13, 1894.



UNITED STATES PATENT OFFICE.

DANIEL COOKE, OF CAMDEN, NEW JERSEY.

APPARATUS FOR DELIVERING MAIL.

SPECIFICATION forming part of Letters Patent No. 516,522, dated March 13, 1894.

Application filed June 22, 1893. Serial No. 478,447. (No model.)

To all whom it may concern:

Be it known that I, DANIEL COOKE, a citizen of the United States, residing in the city and county of Camden, State of New Jersey, have invented a new and useful Improvement in Apparatus for Delivering Mail, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of an apparatus as hereinafter described and claimed for delivering mail in a building from one floor to another.

Figure 1 represents a section of an apparatus embodying my invention. Fig. 2 represents a vertical section thereof on line x, x , Fig. 1. Fig. 3 represents a vertical section of a portion, showing certain parts in different position from that in Fig. 1. Fig. 4 represents a modified form of a catch for retaining the mail box, and a device for releasing the same.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings: A and B designate vertical chutes which are adjacent to each other, and above the same is mounted a pulley C over which passes a cable or rope D, whose ends enter the chutes A and B. The chute B is widened as at B' and communicates with an opening E in the base or floor A', in which latter is a receiver or box F.

Secured to one end of the cable D is a box G, which moves in the chute A, and is provided with a slot for the admission of mail matter. Secured to the other end of the cable D is a carrier H, which is provided with a slanting bottom, and one side of which is open, said carrier moving in the chute B, the wall of which at certain times closes the open side thereof.

Fastened to the chute B in a suitable manner is a box J which communicates with the interior of the carrier H through an opening K in the side of the chute B, the latter having within the same a sliding gate L for closing said opening at the required time, the parts being so arranged that the open side of the carrier H communicates with said opening K when said carrier is in its elevated position.

Between the box J and the chute B, and in front of the opening is placed a spring-actuated dog or catch M to which is secured the cord or wire N, having a handle P, to which cord is also attached the hammer of the bell Q. A catch R is situated at the upper part of the chute A for holding the box G when the latter has been elevated. Weights S are placed in the box J and guided toward the side of the dog M, said side rising sufficiently to act as a temporary stop for said weights.

The operation is as follows: The mail is placed in the box G, and the handle P is pulled, thus depressing the dog M, whereby one of the weights rolls on said dog and bears against the lower wall of the opening K as a stop. When the handle is released, the bell rings and the dog rises and elevates the weight and then directs it into the carrier H, which now being weighted, descends and owing to the rope D causes the ascent of the box G to full extent, when it is engaged by the catch R and thus held. The weight S escapes from the carrier H when the latter reaches the portion B' of the chute B, and drops or rolls into the receiver F through the opening E. When the carrier H passes the opening K, the gate losing its support thereon will lower and close said opening, whereby neither of the other weights will be permitted to enter the chute B, while the carrier is in a lowered condition. When the contents of the box have been removed, the catch R is operated so as to release the same, and as the weight S has left the carrier H, the box G is now the heavier, and hence descends, elevating the carrier H, and raising the gate so as to uncover the opening K, whereby another weight may pass through the same, when the apparatus is further operated.

Should an attendant or janitor on the upper floor fail to release the mail box, the postman may accomplish the same from below. For this purpose instead of the catch R, which is shown in Fig. 1, there are hinged at the top of the chute A the grippers T, which are adapted to engage a head U on the box, said grippers being held in contact with said head by means of the spring V see Fig. 4. A lever W is mounted above said grippers and provided with a depending wedge X, which when lowered enters between the shanks of the grippers and opens the latter whereby the box is free to descend. The lever is lowered

by means of a rod provided with a knob or handle P', the latter being within reach of the postman on the lower floor, and said lever is raised or returned to its normal position by means of the spring Y which is suitably connected with the same.

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

10 1. A mail delivery apparatus having two vertical chutes, a mail box in one of the chutes, and a carrier in the other chute, flexible connections for said box and carrier, weights and a spring controlled catch for controlling the admission of said weights into said carrier, said parts being combined substantially as described.

20 2. In a mail delivery apparatus, a chute containing a carrier, a weight-containing box in communication with said carrier through an opening in said chute, a dog adjacent to said opening for directing a weight from said chamber to said opening and carrier an ascending and descending mail box, and means for operating said dog, the carrier being connected with said mail box, and the parts named combined substantially as described.

30 3. In a mail delivery apparatus, a chute with a carrier therein, a weight-containing box in communication with an opening in said chute leading to said carrier, a gate in said chute supported and controlled by said carrier and an ascending and descending mail box connected with said carrier said parts being combined substantially as described.

40 4. A chute having an opening at the lower end, and a carrier in said chute having an opening in its side in combination with a box, a weight in said chamber, and means for directing said weight from said chamber through the opening in the chute into said carrier, substantially as described.

5. In a mail delivery apparatus, an ascending mail box, a chute with an opening in its

side, a carrier with an opening in its side adapted to register with that in the chute, and a box containing a weight located adjacent to said openings in said chute, in combination with a dog intermediate of said chute and box adapted to temporarily stop said weight, and then direct it into said carrier, whereby said mail box which is connected with the carrier may be elevated, substantially as described.

6. A mail box, a carrier connected with said mail box and having an opening in its side, a chute in which said carrier moves, provided with a widened lower portion, said chute having an opening adapted to register with said carrier opening, a box adapted to contain balls, and mechanism substantially as described for stopping then directing a ball or balls from said box into said carrier, and a receiver below said carrier chute for said balls, said parts being combined substantially as described.

7. A mail box, a carrier connected with said mail box and having an opening therein, a box containing balls, mechanism for directing said balls to said box, a catch for holding said mail box in elevated position, and mechanism for releasing said catch from said mail box, said parts being combined substantially as described.

8. Two adjacent chutes, a mail box movable in one of said chutes, a carrier movable in the other chute and connected with said mail box, said carrier having an opening in its side and said carrier chute having an opening therein with which said carrier opening is adapted to register, a box containing balls and a spring dog for directing said balls to said carrier, said parts being combined substantially as described.

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Witnesses:

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