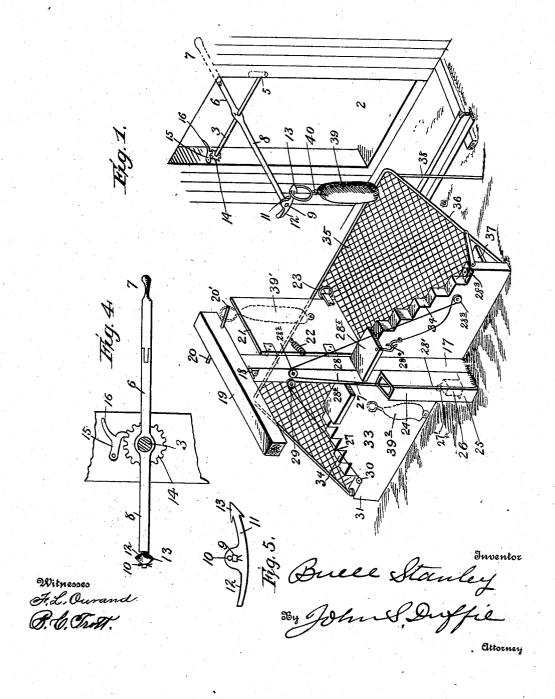
### B. STANLEY.

# DEVICE FOR RECEIVING AND DELIVERING MAIL POUCHES. APPLICATION FILED OCT. 22, 1907.

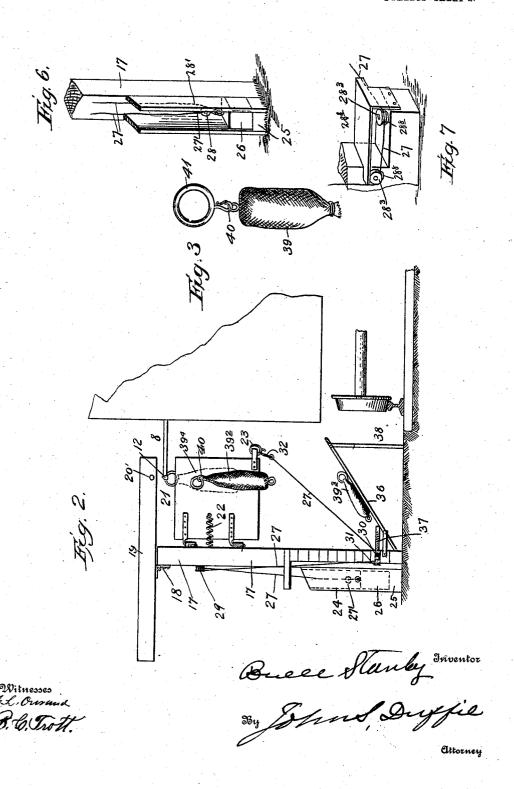
2 SHEETS-SHEET 1.



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## DEVICE FOR RECEIVING AND DELIVERING MAIL POUCHES. APPLICATION FILED 00T. 22, 1907.

2 SHEETS-SHEET 2.



### UNITED STATES PATENT OFFICE.

BUELL STANLEY, OF HERNDON, VIRGINIA.

### DEVICE FOR RECEIVING AND DELIVERING MAIL-POUCHES.

No. 873,276.

Specification of Letters Patent.

Patented Dec. 10, 1907.

Application filed October 22, 1907. Serial No. 398,557.

To all whom it may concern:

Be it known that I, BUELL STANLEY, a citizen of the United States, residing at Herndon, in the county of Fairfax and State 5 of Virginia, have invented certain new and useful Improvements in Devices for Receiving and Delivering Mail-Pouches, of which the following is a specification.

My invention is a device for receiving and 10 delivering mail pouches to and from railroad cars while in motion, and holding the same

when delivered.

In the accompanying drawings, Figure 1, is a perspective view of my invention. Fig. 15 2, is an end view. Fig. 3, is a perspective view of a mail pouch, secured in the snap of a ring. Fig. 4, is a perspective view of the swinging arm, ratchet wheel and dog. Fig. 5, is a face view of the receiving and deliver-20 ing arms. Fig. 6, is a perspective view of a post, set in the ground, its top broken away and having secured to its outer face a housing, its outer wall removed so as to show the weight, cables and weight-seat. Fig. 7, is a 25 detail view, showing two of the pulleys secured to one of the steps, and showing the pulley housings.

Similar numerals refer to similar parts

throughout the several views.

In describing my invention I read the drawings from left to right.

In the accompanying drawings, the numeral 1, represents a portion of a mail car; 2, indicates the door through which the 35 pouches are passed in and out; 3, represents a bar, arranged across the upper part of the opening of the door, which bar is supported and journaled in a horizontal position by suitable bearings 4 and 5, that are fixed to 40 the inner faces of the door-frame. secured to, and extending inwardly from said bar is a handle 6, and hinged to the inner end of said handle is an extension handle 7; said handle 6, extends outwardly from said 45 bar, forming an arm 8. The extreme end 9, of said arm 8, is square, and on said square part 9, is secured, horizontally, by a cotter pin 10, the receiving and delivering arms 11 and 12, respectively, for receiving and deliv-50 ering the mail pouches.

ering the mail pouches.

The delivering arm 12, has its rear end slightly curved upwardly, for preventing the curved upwardly, for preventing the slipping off too easily. mail pouch from slipping off too easily. forward end of the receiving arm 11, is pro-55 vided with an arrow-head 13, to retain the pouch received until it is swung into the car. I the inner face of said post, and running par-

The bar 3, is provided at one end with a ratchet-wheel 14, which ratchet-wheel is rigidly secured to said bar, and works against the door-frame. Pivoted to said door- 60 frame, and immediately above said ratchetwheel is a dog 15, provided with a handle 16. This handle extends inside of the car, and within easy reach of the mail clerk.

The numeral 17, represents a post, set up 65 near the railway track at the station where the mail pouches are to be received and delivered. Secured on the upper end of said post, by a hinge 18, or other substantial means, is a cross-beam 19, its inner end ex- 70 tending inwardly, and secured to the inner face of said post are rods 20 and 201. These rods run parallel with the railway track, and are immediately over the receiving and delivering arms 11 and 12. Hinged to the in- 75 ner face of said post 17, is a swinging door 21, in position to be struck by the mail pouch as the car passes the station. This door is pro-vided, on each side, with a spring 22, which causes it to stand out in the direction of the 80 track, and immediately under the crossbeam 19. Said door is provided at its lower

inner corner with a ring 23.
Secured to the outer face of the post 17, is a housing 24, provided with a weight-seat 25. 85 Resting in this housing is a weight 26. Secured to this weight 26, are two cables 27 The cable 27, has one of its ends 271, secured to said weight; said cable passes thence around a pulley 29, secured to the 90 outer face of said post, near its top end, thence downwardly and around a pulley 30, secured to the lower part of the steps 31, thence upward again, and is secured to the lower part of the steps 31, thence upward 95 again, and is secured to the ring 23, by a hook 32, which is secured to this end of said cable. (See Fig. 2.) The cable 28, has one of its ends 281, secured to said weight; it passes up, thence over a pulley 28<sup>2</sup>, thence 100 downwardly over pulleys 28<sup>3</sup>, thence backwardly and hooked to a hook 284, secured on the platform 285. Each one of these pulleys is provided with a hood 288, as shown in Fig. 7, to keep the cables from running off of the 105 pulleys. These hoods are not shown in the drawings, except in Fig. 7. The platform 28°, is provided with a hook 28′, similar to the hook 284, just described, and is intended to hold the hook 32, on the end of cable 27, 110 when said cable is not in use. Secured to

allel with the railroad track, is a wall 33, provided with steps 34, and with platforms 285 and 28°, on each side of the post, so that the mail clerk may easily mount upon either platform and place the mail pouches in position. Running from the base of said wall, upwardly and inwardly, is a wire gauze 35, secured in a frame 36; the inner edge of said gauze extends a little below the lower sill of 10 the car door, and near enough thereto to catch the falling pouches and keep them from being sucked in under the moving train, and far enough away to be out of the danger of coming in contact with the passing car. 15 This wire gauze performs three functions; it keeps the pouches from being sucked in under the train, it breaks the fall of the pouches and prevents them from falling in the dirt and becoming soiled. Running along the 20 base of said wall, and the lower part of said wire gauze, is a foot-board 37. The inner edge of said frame 36, may be supplied with legs 38.

The mail-pouch 39, is secured to the snap 25 40, which is secured to a ring 41. (See Fig. 3.) It is apparent that the pouch may be secured to said snap at either end. It is also apparent that this invention may be used on either side of the track, and on either side of 30 the car; it is constructed, however, so that it will take on and deliver the pouches, going or coming. When the train is going to the right, the receiving arm 11, goes forward, but if the train is coming in the opposite di-35 rection the mail clerk removes said receiving and delivering arms from the square 9, and reverses the ends, so that they will receive and deliver, going in the other direction.

The drawing shown in Fig. 1, represents 40 the car as going to the right, in which case it is seen that the pouch 39, is taken on from the arm 20<sup>1</sup>; the dotted lines 39<sup>1</sup>, indicate where the pouch 39, was before the train passed; the dotted lines 39<sup>2</sup>, show that a 45 pouch has fallen on the opposite side of the door. This device will take on and deliver one, two or more pouches at the same time. The drawing, Fig. 2, represents the car as going in the other direction, that is to the 50 left, and the numeral 392, shows the pouch being dropped on the wire gauze 35, while the numeral 39<sup>3</sup>, shows the position of the pouch when it first falls. The dotted line, 394, shows the position the pouch occupied 55 before it was delivered from the delivering arm 11.

It is usual to receive and deliver pouches at the same time, but in case there is no pouch to take on, and the car is going to the 60 left, I attach the hook 32, on the free end of the cable 27, and hook it in the ring 23; the other end of the cable being attached to the weight 26, gives enough resistance to the door, to throw the pouch to the ground. In 65 case the car is going in the other direction, to | the right, the hook end of the other cable is secured to the ring 23, of the door.

The operation of my invention is as follows:—The mail agent hangs the pouch, or pouches, to be delivered, on the delivering 70 arm 11, and the pouches to be taken, on the arm 20<sup>1</sup>, then, by means of the handle 6, swings the arms 11 and 12, out in position, immediately under said rods 20-201, and the dog 15, is then set to hold said arm in proper 75 position. When the mail car passes the post 17, said arms pass immediately under said rods, and over the door, whereby the pouch on the forward side of the door is taken onto the receiving arm 12, and the pouch on the 80 rear side of the door is thrown, by said door, from said delivering arm and falls down onto the wire gauze, and then slides down to the foot-board 37. As soon as the pouches are delivered and received from and on said 85 arms, the agent releases the dog, and said arm and received pouches then swing immediately downward, and by momentum, some little distance into the car; when the car reaches its terminal and is to return, the 90 agent takes the arms 11 and 12, off of the square 9, and reverses the ends. This reverses the operation of the device when the car goes in the other direction.

The advantage of the swinging door is, 95 that it saves the two pouches from coming in immediate contact with each other. The pouch to be delivered first comes in contact with the door; the door then comes in contact with the pouch to be received, and thus 100 the swinging door takes half of the sudden jar off of each pouch, and in addition to this advantage the door operates to deliver the pouch when there is no opposing pouch to be taken on.

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Although I have specifically described the combination, construction and arrangement of the several parts of my invention I do not confine myself particularly to such combination, construction and arrangement, as I 110 claim the right to make such changes and modification therein as may clearly fall within the scope of my invention, and which may be resorted to without departing from the spirit, or sacrificing any of my patentable rights 115 therein.

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

1. In a device for receiving and delivering 120 mail pouches to and from railroad cars, while in motion, and holding same when delivered, in combination with a railroad car, a bar 3, pivoted near the upper end of the door opening of said car in bearings 4 and 5; a 125 ratchet-wheel 14, rigidly secured to one end of said bar; a dog, pivoted to the face of said door, and adapted to work with said ratchetwheel; a handle 6, extending inwardly from said bar; an extension handle 7, hinged to 130

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the inner end of said handle 6; an arm 8, having a square end 9, extending outwardly from said bar; delivering and receiving arms 11 and 12, secured, horizontally, on said 5 square end 9; a post 17, erected on the side of the railroad track; a cross-beam 19, secured on the top of said post, and having secured to its inner end, rods 20 and 201, running parallel with said track; a swinging 10 door 21, hinged to said post, and made to swing immediately under said cross-beam, by means of springs 22; a ring 23, secured to the lower end and inner corner of said door; a wall 33, provided with steps 34, and plat-15 forms 285, and 286, secured to the inner face of said post 17, some little distance from said track and running parallel therewith; a wire gauze, running inwardly and upwardly from the base of said wall, nearly to and under the 20 door of the car; a housing 24, secured to the outer face of said post, having a weight-seat; pulleys 283, secured to the right-hand end of said wall; pulleys 30, secured to the lefthand end of said wall; pulleys 282 and 29, 25 secured to the outer face of said post, near its top end; a weight 26, seated in said housing; a cable 27, having one end 271, secured to said weight, passing up over pulley 29, thence down over pulleys 30, its free end pro-30 vided with a hook 32, and adapted to be hooked in the ring 23, of said door, or in the hook 287, secured to the platform 286, of said wall, and a cable 28, having one end 281, secured to said weight, passing thence up-35 wardly over pulley 28<sup>3</sup>, then downwardly over pulleys 28<sup>3</sup>, its free end adapted to be hooked to said ring 23, or to the hook 28<sup>4</sup>, secured to the platform 28<sup>5</sup>, substantially as shown and described and for the purposes 40 set forth.

2. In a device for receiving and delivering mail pouches to and from railroad cars,

while in motion, and holding same when delivered, in combination with a railroad car, a bar 3, journaled near the top of the door of 45 said car; a ratchet-wheel 14, rigidly secured near one end of said bar, said bar adapted to be held in position by a dog 15; a handle 6, extending inwardly from said bar; delivering and receiving arms 11 and 12, respec- 50 tively, secured horizontally to the free end of said arm 8; a post 17, erected near the railroad track; a beam 19, secured horizontally on the upper end of said post; rods 20—201 secured to the inner end of said post and run- 55 ning parallel to said track; a swinging door 21, hinged to the inner face of said post, and springs 22, causing said door to swing immediately under the inner end of said crossbeam 19, substantially as shown and de- 60 scribed and for the purposes set forth.

3. In a device for receiving and delivering mail pouches to and from railroad cars, while in motion, and holding same when delivered, the combination of a post erected 65 near a railroad track; a wall 33, provided with steps 34 and platforms 28°, and 28°, secured to the inner face of said post, and running parallel with said track; a wire gauze, secured in a frame 36, its outer edge secured 70 to the base of said wall, its inner edge running inwardly and upwardly, nearly to the door of said car and a little below the door; legs 38, supporting the inner edge of said wire gauze, and a foot-board 37, resting on 75 said frame near its outer edge, substantially as shown and described and for the purposes set forth.

poses set fortin.

In testimony whereof I affix my signature in presence of two witnesses.

BUELL STANLEY.

#### Witnesses:

FRANK W. HUDDLESON. W. F. MIDDLETON.