

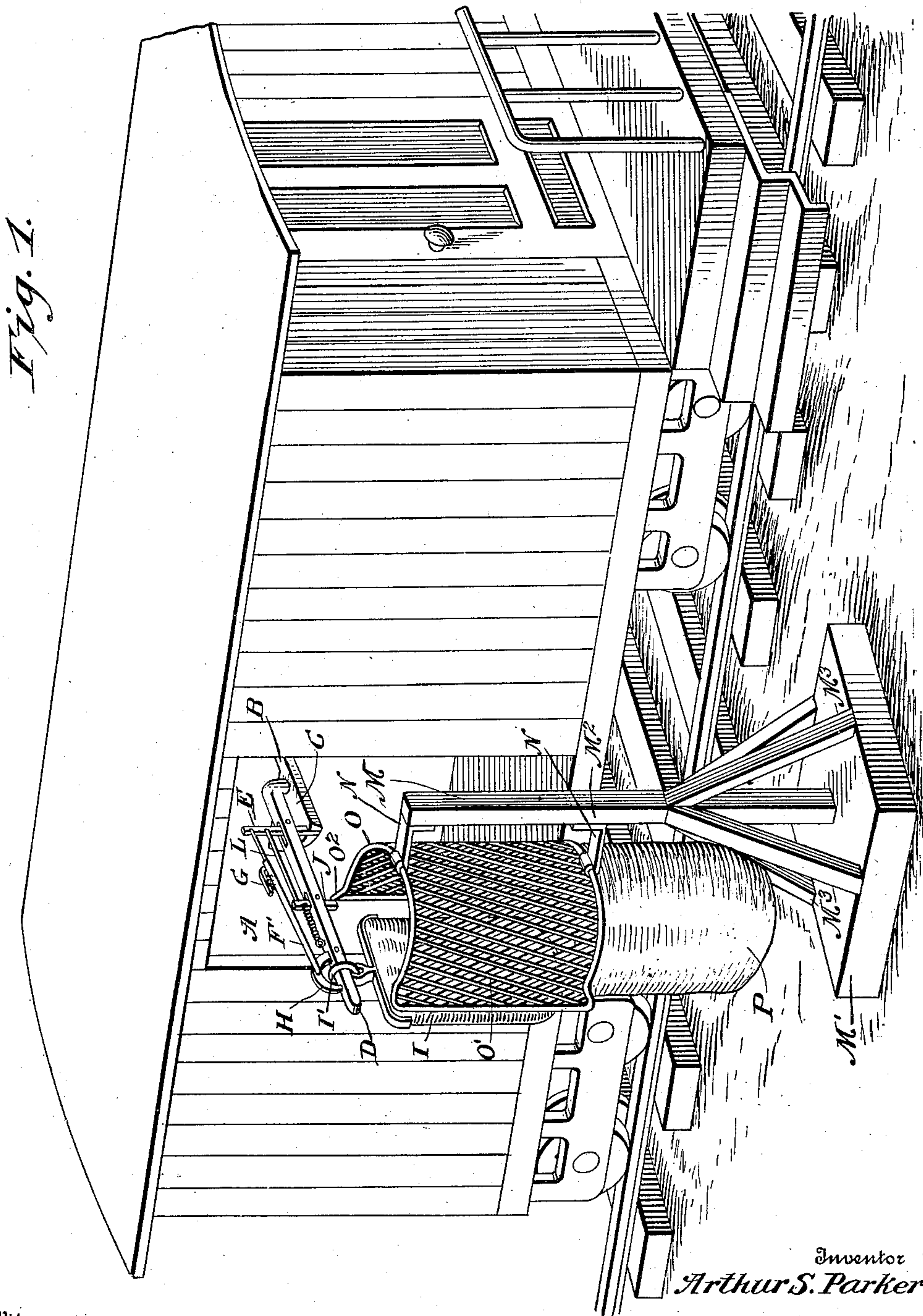
No. 891,563.

PATENTED JUNE 23, 1908.

A. S. PARKER.
MAIL BAG DELIVERER AND CATCHER.

APPLICATION FILED MAR. 26, 1908.

2 SHEETS—SHEET 1.



Witnesses

M. C. Lyddane
J. D. E. Mulhall

By

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Inventor
Arthur S. Parker

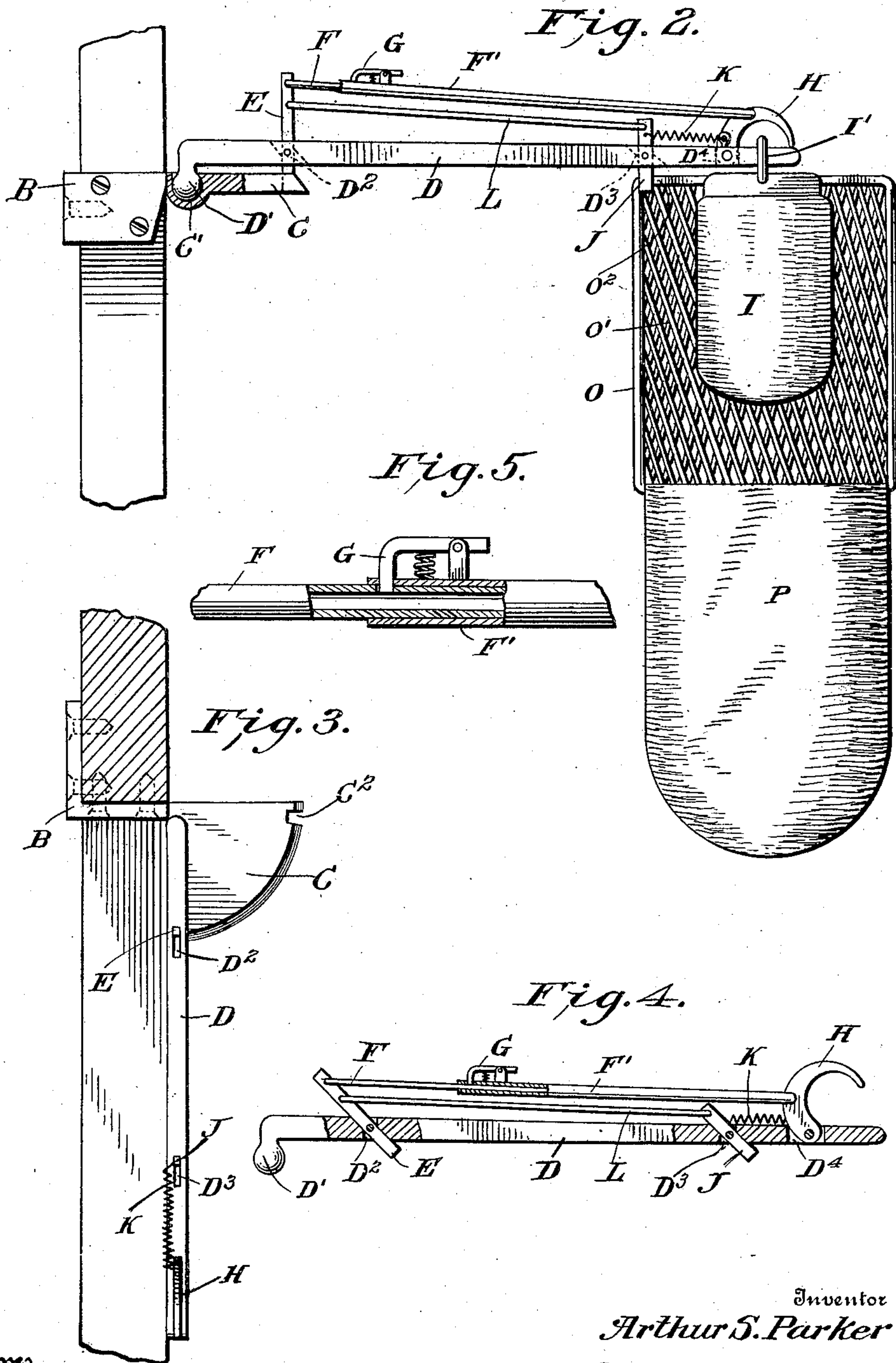
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UNITED STATES PATENT OFFICE.

ARTHUR S. PARKER, OF MOYLAN, PENNSYLVANIA.

MAIL-BAG DELIVERER AND CATCHER.

No. 891,563.

Specification of Letters Patent.

Patented June 23, 1908.

Application filed March 26, 1908. Serial No. 423,363.

To all whom it may concern:

Be it known that I, ARTHUR S. PARKER, a citizen of the United States, residing at Moylan, in the county of Delaware and State of Pennsylvania, have invented certain new and useful Improvements in a Mail-Bag Deliverer and Catcher, of which the following is a specification.

This invention relates to mail-bag deliverers and catchers, the object being to provide a very novel device for holding the mail-bag in position, so that it will be caught by a wire frame as the train passes the same.

Another object of my invention is to provide very novel means for locking the bag on the arm so that all danger of it accidentally falling off is prevented, the locking means being released by the catcher.

Another object of my invention is to provide very novel means for locking the arm in an extended position so that it will be held rigidly, whereby the bag will be held in path of the catcher.

A further object of my invention is to provide independent releasing means for the bag locking device, so that it can be operated when swung into the door of the car, so as to enable the bag to be put on the same.

These objects are obtained by the novel arrangement and construction of parts hereinafter fully described and shown in the accompanying drawings, in which:—

Figure 1, is a perspective view of my improved mail-bag deliverer and catcher showing the application of the same. Fig. 2, is a side elevation partly in section showing the ball and socket joint of the arm. Fig. 3, is a top plan view showing the arm swung around in position to receive the bag. Fig. 4, is a longitudinal section through the arm partly in elevation, and, Fig. 5, is a detail view partly in section of the operating rod showing the catch.

In the drawings A, indicates my improved delivering device which comprises an angle bracket B, adapted to be secured to the frame of a car door having an outwardly projecting plate C, having a curved edge and provided with a socket C', in which is mounted a ball D', formed on the angle end of an arm D, which is provided with vertical slots D², D³, D⁴. Pivotally mounted in the slot

D², is a lever E, adapted to be held in a notch C², formed in the plate C, as will be hereinafter fully described.

Connected to the upper end of the lever E, is a tube F, which is slidably mounted in a tube F', and locked therein by a pivot catch G. The end of the tube F', is pivotally connected to a hook H, pivotally mounted in the slot D⁴, of the arm D, and adapted to be normally held down over the ring or strap I' of the mail-bag I, as will be hereinafter fully described.

Pivotally mounted in the slot D³, of the arm D, is a trigger J, which is held in a vertical position by a coil spring K, and to the upper end of which is connected a rod L, which is connected at its other end to the lever E, by means of which the lever is thrown out of the notch C², the spring normally holding the lever in a vertical position, so as to hold the hook in a closed position over the ring or loop of the mail-bag.

Arranged alongside of the railroad track is my improved catcher M, which comprises a base M', on which is secured a post M², which is connected to the base by braces M³, so as to hold the post in a rigid position, and extending outwardly from one side of the post are angle brackets N, the ends of which are bent around the horizontal members of a substantially semicircular receiving frame O, which is covered by wire netting O', and is provided with flanged edges O², one of which is adapted to be engaged by the trigger J, when the arm D, is swung outwardly in position to deliver the bag, which throws the upper end of the trigger inwardly so as to throw the lever E, out of the notch of the plate C, and at the same time the hook upwardly so that when the bag strikes the frame, the arm will swing backwardly, the lever riding over the curved beveled edge of the plate so as to prevent the hook from closing, and as the train passes the catcher, the bag will be drawn off of the end of the arm and will drop into a suitable receptacle P, secured to the bottom of the frame O. It will be seen by mounting the arm so as to have a universal movement the arm can move upwardly, so as to allow it to ride over the frame. By this arrangement it will be seen that the bag will be caught into a suit-

able receptacle so as to prevent the bag from becoming injured in any way, thereby overcoming the difficulties now existing with devices of this character in use. It will also be seen that by releasing the catch the hook can be drawn upwardly so that the ring or loop of the mail-bag can be readily placed under the hook and by swinging the arm outwardly the lever will be forced into the notch of the plate C, by the action of the spring so as to lock the arm in an outward position.

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

1. In a device of the kind described, the combination with a mail bag catcher, of a delivery arm having movement in a horizontal and a vertical plane, mechanism for locking a bag on the end of said arm and means for releasing said locking mechanism operated by the mail bag catcher.

2. In a device of the kind described, the combination with a semicircular catcher frame provided with a receptacle, of a delivery arm pivoted to move in a horizontal plane, a mail bag having a supporting member adapted to be passed over said arm whereby the arm supports a bag upon its end, a locking hook closing over said bag supporting member, a lever for operating said hook and a tripping member for actuating said lever so arranged as to be moved by contact with said catcher frame.

3. In a device of the kind described, a delivery arm pivoted for movement in a horizontal plane and adapted to carry a bag upon its end, means for locking the bag on the end of said arm and tripping means carried by the arm in combination with a receiving frame, the upper edge of which is adapted to contact with said tripping means to actuate it.

4. In a device of the kind described, a delivery arm mounted on a universal joint whereby it has free horizontal and vertical movement, said arm adapted to carry a bag upon its free end, a hook pivoted rearward of the bag carrying portion of the arm and closing over the same, and a lever pivoted on said arm and connected at one end to the hook whereby the hook may be operated in combination with a receiving frame having a semicircular upper portion adapted to contact with the free end of said lever to move the same to open the hook.

5. In a device of the kind described, a catcher adapted to be arranged alongside of the track, a bracket carried by a car, an arm the rear end of which is provided with a universal connection to said bracket whereby the arm may have movement in a horizontal and vertical plane, means for locking said arm in an outwardly extending position,

means for locking a bag on the end of said arm and preventing the passage of said bag off of the end of said arm, and mechanism for releasing said locking means carried by the arm, adapted to be manually operated or to be engaged by a mail bag catcher.

6. In a device of the kind described, the combination with a frame adapted to be supported by suitable means arranged alongside of a track, of a bracket secured to the car, an arm pivotally mounted in said bracket, a hook pivotally mounted on the end of said arm for locking the loop or ring of a mail-bag thereon, a lever for operating said hook and locking said arm in an outward position, and means connected to said lever for operating the same adapted to be engaged by the frame.

7. In a device of the kind described, the combination with a receiving frame, of a horizontally pivoted arm, a hook for locking a ring or loop on the end of said arm, a lever connected to said hook for locking said arm in an extended position, and a trigger connected to said lever for operating the same adapted to be engaged by said receiving frame.

8. In a device of the kind described, the combination with a receiving frame, of a bracket provided with a plate, a socket formed in said plate, a ball carried by an arm mounted in said socket, said plate being provided with a notch, a hook pivotally mounted on the end of said arm for securing a ring or loop thereon, a lever pivotally mounted in said arm adapted to fit in the notch of said plate, and an adjustable link connecting said lever to said hook, and a spring actuated trigger mounted in said arm connected to said lever adapted to be engaged by said receiving frame, for the purpose described.

9. In a device of the kind described, the combination with a bracket provided with a plate having a curved beveled edge and provided with a socket, of an arm provided with a ball at one end mounted in said socket, said plate being provided with a notch, a lever pivotally mounted in the arm adapted to fit in said notch, a hook pivoted adjacent the end of said arm, a tube carried by said hook, a tube carried by the lever working in said tube, a catch for locking said tubes together, a pivoted trigger connected to said lever by a rod, a spring connecting said trigger to said arm, and a catcher comprising a semicircular frame having an outwardly projecting portion adapted to operate said trigger.

10. In a device of the kind described, the combination with a horizontally pivoted arm adapted to be carried by a train, means for locking a supporting member of a mail-bag on the end of said arm, means for locking

said arm in an outward position, a trigger for
operating said means and a post adapted to
be arranged alongside of the track provided
with a semicircular frame and a receptacle
5 for operating said trigger, whereby the bag
will be drawn off the arm as the train passes
the same and deposited in said receptacle.

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

ARTHUR S. PARKER.

Witnesses:

REA P. WRIGHT,
M. C. LYDDANE.