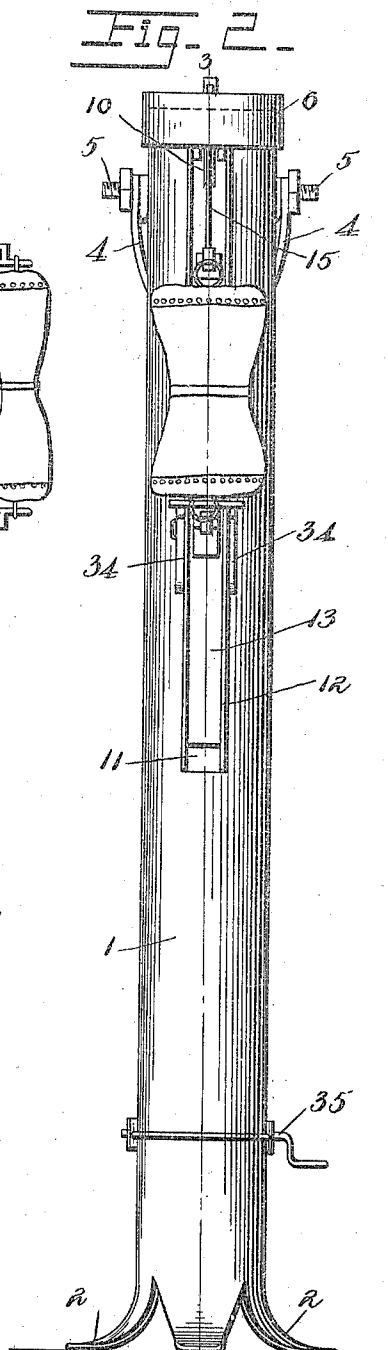
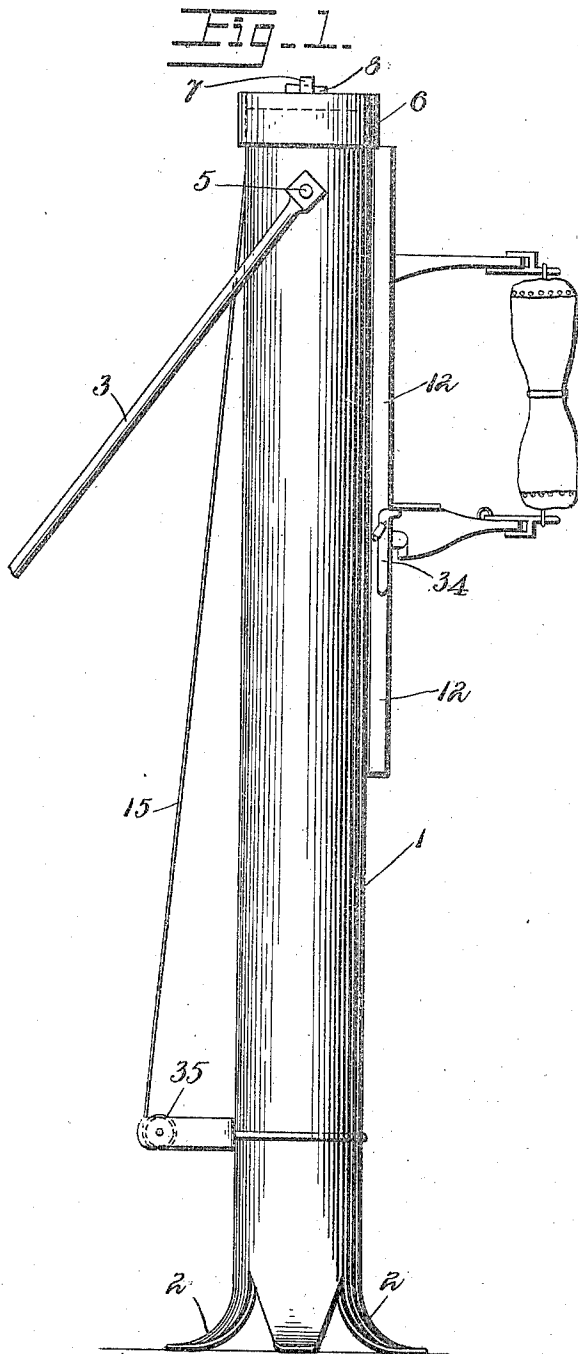


M. N. GEORGE.
MAIL BAG DELIVERER.
APPLICATION FILED OCT. 22, 1909.

948,217.

Patented Feb. 1, 1910.

2 SHEETS—SHEET 1.



Witnesses
Byron B. Collins
J. J. Pina

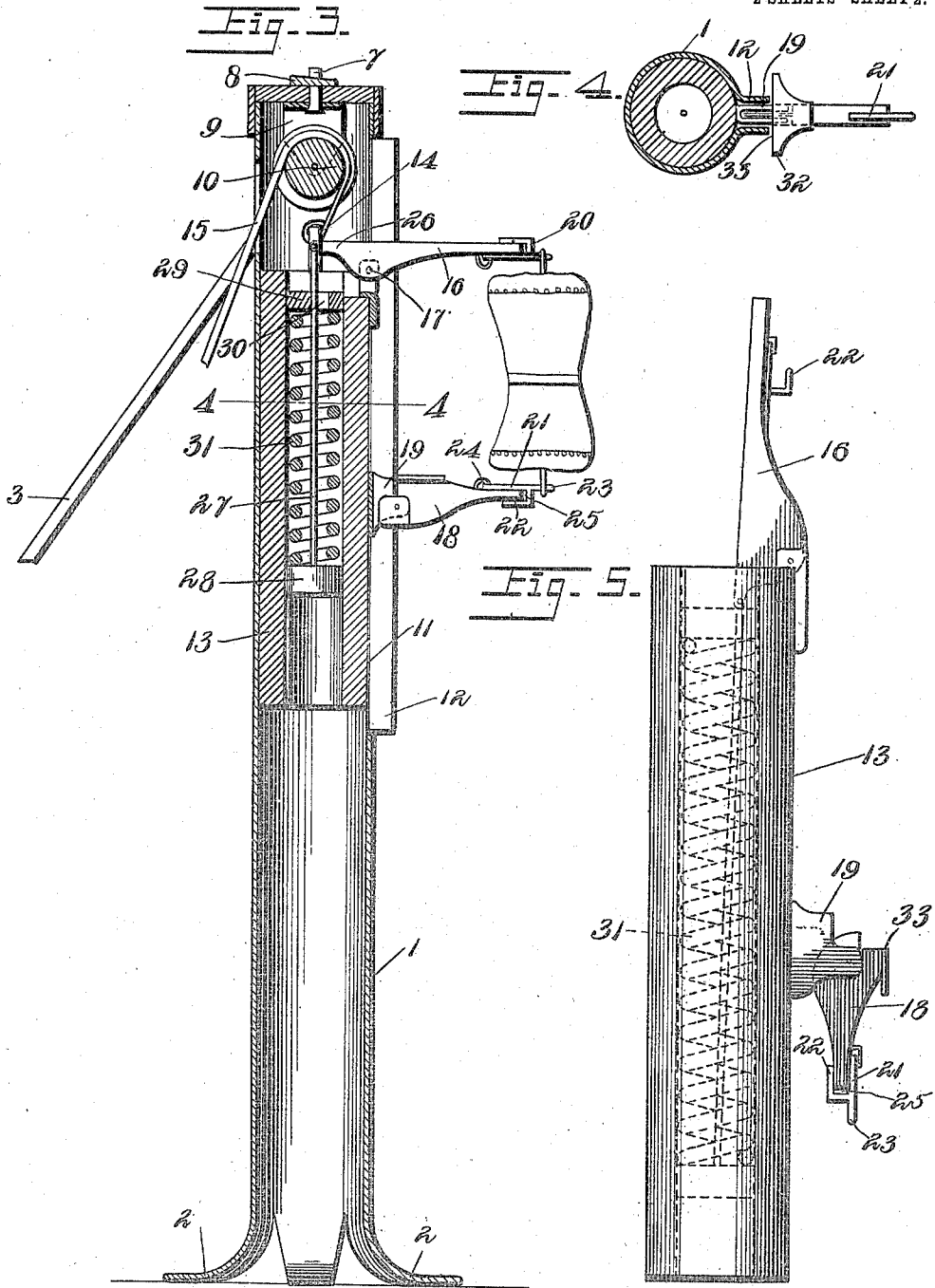
Inventor
M. N. George
J. J. Williams, John & Watson
his Attorneys

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UNITED STATES PATENT OFFICE.

MARION N. GEORGE, OF IRONDALE, ALABAMA.

MAIL-BAG DELIVERER.

948,217.

Specification of Letters Patent.

Patented Feb. 1, 1910.

Application filed October 22, 1909. Serial No. 524,054.

To all whom it may concern:

Be it known that I, MARION N. GEORGE, a citizen of the United States, residing at Irondale, in the county of Jefferson and State of Alabama, have invented certain new and useful Improvements in Mail-Bag Deliverers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in mail bag deliverers of the type that provides means whereby a mail sack may be suspended adjacent a railroad track and delivered to a moving train. In apparatus of this class as now generally used, it is customary to set the mail sack in position on the deliverer by means of a platform or ladder, and this is not only a cumbersome method where heavy sacks have to be handled, but often times results in serious accidents.

One of the objects of this invention is to overcome this objection by providing a movable carrier, whereby the mail sack may be loaded thereon in a set position and hoisted to the proper height to be delivered to the moving train.

Other features of the invention reside in the particular construction and arrangement of operating parts whereby an efficiently working device is produced, which may be cheaply manufactured and which is strong in construction.

While the invention is not restricted to the exact details shown and described, still for the purpose of disclosure reference is had to the accompanying drawings illustrating a practical embodiment of the same, and the particular features of novelty of the invention will be more succinctly pointed out in the claims.

Referring to the drawings, in which like numerals designate the same parts in the several views:—Figure 1 is a side elevation of my improved mail bag deliverer. Fig. 2 is a view in front elevation of same. Fig. 3 is a longitudinal section on the line 3—3 of Fig. 2. Fig. 4 is a cross section on the line 4—4 of Fig. 3. Fig. 5 is a view, in elevation, showing the movable carrier with the trigger arms thereon, the trigger arms being illustrated in their tripped position.

It will be understood that in carrying out the invention any suitable standard may be employed, this standard having a movable carrier for shifting the mail sack from its lower position for loading to its upper position for delivering. A very satisfactory construction is shown in the drawings, wherein the standard consists of a pipe 1 which may be split at its lower end and bent outwardly to provide the feet 2 for supporting the standard in an upright position. These feet may be provided with bolt holes for securely fastening the base of the upright standard, and it is evident that if necessary suitable stay rods may be employed. In the drawings a single stay rod is shown at 3 provided with the forked end 4 bolted to studs 5 on the exterior of the casing, but it is obvious that other staying means may be provided. The top of the pipe is provided with a cap piece 6, having a slot through which may be passed a plate or rod 7 slotted to receive a wedge 8, the lower end of the plate or rod 7 being headed to or otherwise secured to a bracket member 9 journaling a pulley 10. The hollow upright is provided on one face with a slot 11, extending longitudinally thereof from about a central position to the top of the upright, and this slot has adjacent thereto the flange plates 12, the slot and flange plates being adapted to receive and guide the trigger arms of the device hereinafter referred to.

Within the hollow upright is provided a movable carrier, and in the drawings this carrier is shown as comprising a short section of pipe 13, connected as at 14 to a chain or cable 15 reeving over the pulley 10.

16 designates the upper trigger arm pivotally supported in any suitable way, as at 17, to the upper end of the hollow carrier, and 18 is the lower trigger arm pivotally supported in the bracket 19, which latter is secured to the movable carrier at the proper relative distance from the upper trigger arm to correspond with the length of the mail sack. The bracket 19 may be adjustably secured, if desired, to the carrier 13. The trigger arms 16 and 18 are provided at their outer ends with the triggers 20, which are so mounted thereon as to swing laterally, but which are locked against vertical move-

ment when in their set positions. In the drawings these triggers are shown as being formed like U-shaped members having one side 21 longer than the other side 22, providing at one end the projecting finger 23, and at the other end means for pivotally securing the trigger, as at 24, on the ends of the trigger arms, the space 25 between the two faces 21 and 22 receiving the ends of the trigger arms. The fulcrum 17 of the upper arm 16 is located intermediate the ends of the arms, providing a rearwardly projecting portion 26 connected with a rod 27, the lower end of which carries a movable abutment 28 located in the bore of the hollow carrier, the upper end of the bore of the hollow carrier being provided with a fixed abutment plate 29 having an aperture 30 to allow of the passage of the rod 27 therethrough. Between the fixed abutment 29 and the movable abutment 28 is interposed a coil spring 31. The lower arm 18 is provided with a trip plate on its upper face, having fingers 32 extending laterally therefrom, the rear edge 33 of the trip plate being adapted to engage the forward edges of the flange plates 12 to limit the upward movement of the lower trigger arm, and the lateral projections 32 being adapted to engage above the dogs 34 pivoted on the outer faces of the flange plates 12.

35 designates a windlass and crank to which the lower end of the cable 15 may be connected, for the purpose of more readily raising the carrier with the loaded mail bag.

In operation, when the carrier is in its lowermost position, the same may be easily reached by the operator from the ground, and with the triggers set in the position shown in the various figures, or in longitudinal alinement with the trigger arms, the lower trigger arm is swung upwardly until the rear edge 33 of the trip plate engages the forward edges of the flange plates 12, locking the lower trigger arm against further upward movement. The upper trigger arm is then pulled downwardly from the position shown in Fig. 5 to the position shown in Fig. 3, compressing the spring 31, and the two eyes of the mail sack are slipped over the fingers 23, thus holding the trigger arms in the position shown, when the whole carrier may be moved upwardly through the medium of the cable 15 until the lateral arms 32 on the trip plate ride above the dogs 34, whereupon the carrier is locked in the position shown ready to deliver the mail bag to the moving train. It is obvious that the collector arm on the train when striking the bag will swing the triggers 20 in a horizontal plane, allowing the bag to be extracted without any strain on the apparatus, and as soon as the bag is delivered the lower arm will fall downwardly, the trip plate passing over

the dogs 34 releasing the carrier which will drop downwardly to its lowermost position, the expansion of the spring 31 swinging the upper trigger arm to the position shown in Fig. 5.

Having thus described the invention, what I claim is:—

1. In a mail bag deliverer, the combination of an upright, a vertically sliding carrier, a pair of trigger arms carried by said carrier and extending laterally thereof in the same vertical plane with said upright, means for detachably securing a mail bag to said trigger arms, means for elevating said carrier and trigger arms, and means for locking said carrier in its elevated position and releasing said carrier upon the detachment of said mail bag, substantially as described.

2. In a mail bag deliverer, the combination of a hollow upright, provided with a longitudinal slot, a movable carrier within said hollow upright operating adjacent said slot, trigger arms mounted on said carrier through said slot, means for detachably securing a mail bag on said trigger arms, means for elevating said carrier, and means for holding said carrier latched in its elevated position, substantially as described.

3. In a mail bag deliverer, the combination of a hollow upright provided with a longitudinal slot, a movable carrier within said upright operating adjacent said slot, vertically operated trigger arms pivotally secured to said carrier through said slot, horizontally swinging triggers on the ends of said trigger arms providing means for detachably hanging a mail sack, means for lifting said carrier, and means for holding said carrier latched in its elevated position, substantially as described.

4. In a mail bag deliverer, the combination of a support, trigger arms on said support, and horizontally swinging triggers on the ends of said trigger arms, said triggers consisting of an elongated plate provided with an intermediate U-shaped portion forming a recess for the reception of the ends of said trigger arms and providing projecting fingers for detachably suspending a mail sack, substantially as described.

5. In a mail bag deliverer, the combination of a hollow upright, provided with a longitudinal slot, a carrier movably mounted in said upright adjacent said slot, said carrier being provided with a longitudinal bore and a stationary abutment, trigger arms pivotally supported on said carrier, the upper of said trigger arms being provided with a rearward extension disposed above said bore, a rod connected at one end to said rearward extension and at its other end provided with a movable abutment within said bore, a spring interposed between said mov-

able and stationary abutments, horizontally swinging triggers mounted on the ends of said trigger arms for detachably suspending a mail sack, means for lifting said carrier, and means for holding said carrier latched in its elevated position, substantially as described.

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

MARION N. GEORGE.

Witnesses:

G. R. HARSH,
MARIE GILARDONI.