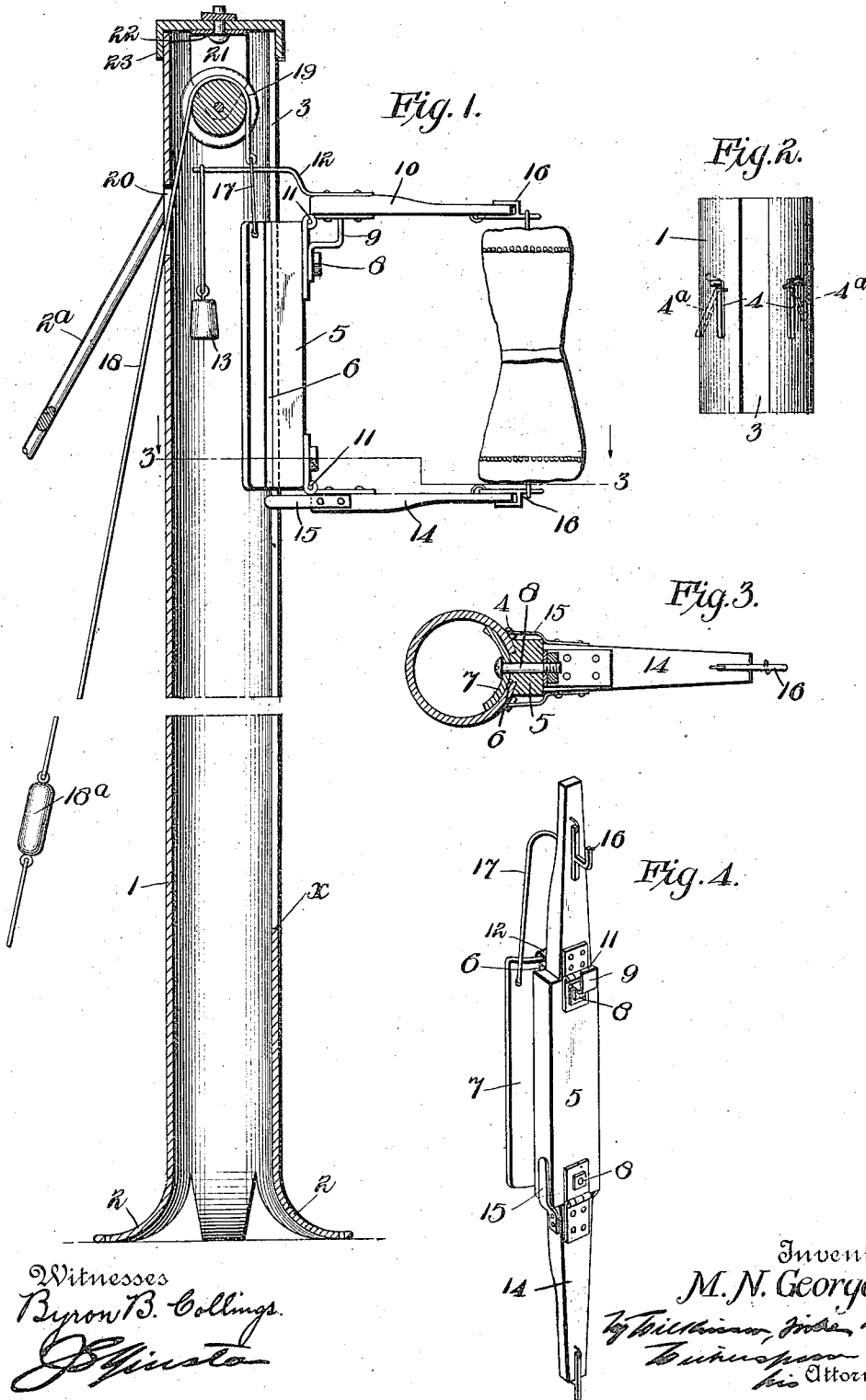


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MAIL BAG DELIVERER.
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Witnesses
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UNITED STATES PATENT OFFICE.

MARION N. GEORGE, OF IRONDALE, ALABAMA.

MAIL-BAG DELIVERER.

964,231.

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To all whom it may concern:

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

This invention relates to mail bag deliv-
erers, and is designed as an improvement
on my Patent No. 948,217, patented Febru-
15 ary 1, 1910.

To more fully understand the invention
reference is had to the accompanying draw-
ings, and the particular features of novelty
will be more succinctly pointed out in the
20 claims.

In the drawings in which like characters
designate the same parts in the several
views,—Figure 1 is a longitudinal section
through a hollow vertical standard, the oper-
25 ating mechanism of the mail deliverer being
shown in side elevation. Fig. 2 is a frag-
mentary view showing the locking dogs posi-
tioned with relation to the hollow support.
Fig. 3 is a section on the line 3—3 of Fig. 1,
30 and Fig. 4 is a detail perspective view of the
carrier.

In the present invention I have illustrated
a hollow standard or pipe 1, which may be
provided with the supporting feet 2, secured
35 to a suitable base by bolts or otherwise, and
it is evident that stay rods 2^a may also be
employed for anchoring the vertical support.

The upper end of the support is slotted,
as at 3, and adjacent the slots are the pivoted
40 locking dogs 4 adapted to swing laterally
in a vertical plane.

In the drawings the movable carrier con-
sists of the elongated member 5 having a
neck portion 6 of a width adapted to fit
45 snugly in the slot 3, and inside of the hollow
standard is a curved plate 7 disposed against
said neck and securely affixed to the elon-
gated member in any suitable way, illus-
trated in the drawings as comprising the
50 bolts and nuts 8.

On the outside face of the elongated mem-
ber, and held in position by the upper bolt
8, is a bracket or support having an up-
turned offset portion 9 adapted to engage the

underneath face of the upper trigger arm 10, 55
in order to limit the downward movement of
same. The upper trigger arm 10 is suitably
pivoted or hinged, as at 11, to the elongated
member 5, and is provided with a rear ex-
tension or arm 12 extending through said 60
slot 3 into the hollow standard and provided
with a suspended weight 13. The lower
trigger arm 14 is similarly pivoted or hinged,
as at 11, to the elongated member 5, and this
lower arm is provided with rearwardly 65
extending offset strips or fingers 15 adapt-
ed to rest on top of the lateral arms of the
supporting dogs 4 and hold the carrier in its
uppermost position when elevated. These
70 fingers extend from both sides of the lower
trigger arm and straddle the elongated mem-
ber, as shown in Figs. 3 and 4. They also
slightly diverge, as shown in Fig. 3, to
properly engage the horizontal arms of the
dogs. 75

16 designates suitable triggers, and in the
drawings have simply been illustrated as
shown in my former patent as consisting
of laterally swinging members pivoted on
the ends of the trigger arms, and having 80
projecting fingers adapted to receive the
rings at the top and bottom of the mail sack.

In the present construction the movable
carrier is shown as suspended by means of a
bail 17 secured to the end of the cable 18, 85
reeving over a pulley 19 journaled in the up-
per part of the standard, the cable 18 pass-
ing out through a suitable opening 20 in said
standard. The pulley 19 may be journaled
90 in any suitable way, but in the drawings this
has been simply illustrated by means of a
bifurcated bracket 21 secured by means of a
nut or rivet 22 to the top of a removable
cap 23.

In Fig. 1, the carrier is shown in its upper- 95
most position with the mail bag in position
to be delivered, and in Fig. 4 the position of
the trigger arms on the carrier is shown
when the mail bag has been delivered and
the carrier falls to its lowermost position, 100
indicated at *x*.

In its lowermost position it will be obvi-
ous that the carrier may be easily reached by
the operator, without the use of a platform
or ladder, and when the mail bag is to be 105
placed into position the trigger arms are
swung forwardly toward each other, the
movement of the upper arm being limited by

the support 9 and the length of the bag being compensated for by the unrestricted vertical movement of the lower trigger arm. The mail bag being placed in position on the triggers, as clearly shown in Fig. 1, it will be obvious that the carrier may be elevated to its uppermost position by slightly hauling on the cable 18, and by the structure illustrated practically the only weight to be elevated is that of the mail bag plus the light weight of the carrier.

As the carrier is elevated with the trigger arms in their set position, when the offsets 15, engage beneath the lateral arms of the supporting dogs 4 (with which they are in vertical alinement) the ends of the dogs are swung outwardly, as shown in dotted lines in Fig. 2, so that the offset fingers 15 ride above the lateral arms of the dogs, when the latter swing back in place and are in position to support the offset fingers 15, and hence the carrier. Suitable stops are provided to prevent the lower arms of the dogs from swinging inwardly. These stops are illustrated in Fig. 2, as at 4^a, where the pin that forms the stop is bent over and also forms the axis for the swinging dogs.

When the collector arm on the train strikes the bag it will swing the triggers 16 in a horizontal plane, the bag being delivered without any strain on the apparatus, and as soon as the bag is delivered the upper arm will swing upwardly, owing to its counterbalanced weight 13, and the lower arm will swing downwardly, owing to its weight, thus moving the fingers 15 away from the supporting dogs, allowing the whole carrier to drop into position for inserting a new bag in place.

In Fig. 1 there is also illustrated a counterweight cooperating to assist in elevating the carrier and mail bag, the counterweight being of a weight slightly less than the weight of the carrier. Any suitable form of counterweight may be employed, and this has been simply illustrated as an oval-shaped lead 18^a carried by the flexible member such as a chain or cable 18; and from the position shown in Fig. 1 it will be obvious that when the mail bag is delivered the weight of the carrier will cause it to fall down to its lowermost position, the weighted lead 18^a retarding its movement and providing against shocks. The counterweight also, of course, assists in elevating the carrier and bag.

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

1. In a mail bag deliverer, the combination of a hollow upright provided with a longitudinal slot, a movable carrier operating along said slot, an upper and a lower trigger arm pivotally mounted on said carrier, means for detachably securing a mail bag on said trigger arms, an extension on said upper trigger arm disposed within said

hollow support, a weight suspended on said extension, means for elevating said carrier, and means for holding said carrier latched in its elevated position, substantially as described.

2. In a mail bag deliverer, the combination of an upright, a movable carrier operating along said upright, an upper and a lower trigger arm pivotally mounted on said carrier, an offset projection engaging said upper trigger arm to limit its downward movement, means for swinging said upper trigger arm upwardly upon being released from its set position, means for elevating said carrier, and means cooperating with said lower trigger arm for holding said carrier latched in its elevated position, substantially as described.

3. In a mail bag deliverer, the combination of an upright, a movable carrier operating along said upright, an upper trigger arm pivotally connected to said carrier, means normally holding said upper trigger arm in an upright position when not set, means limiting the downward swing of said trigger arm, a lower trigger arm pivotally connected to said carrier, a bifurcated extension or fingers projecting from the rear of said lower trigger arm, means for detachably securing a mail bag on said trigger arms, means for elevating said carrier, and pivoted dogs engaged by said bifurcated extension holding said carrier latched in its elevated position, substantially as described.

4. In a mail bag deliverer, the combination of an upright standard, a carrier movable therealong, an upper trigger arm pivotally connected to said carrier, means for limiting the downward swing of said upper trigger arm, a lower trigger arm pivotally connected to said carrier and normally unrestricted in its vertical swing, means for detachably supporting a mail bag on said trigger arms, means for elevating said carrier, and means for holding said carrier latched in its elevated position until the release of the mail bag, substantially as described.

5. In a mail bag deliverer, the combination of a hollow standard provided with a longitudinal slot, a carrier comprising an elongated member provided with a neck portion operating along said slot, a plate within said hollow standard of greater width than said slot and connected to said elongated member, trigger arms, means for detachably securing a mail sack to said trigger arms, means for elevating said carrier, and means cooperating to return said trigger arms to a vertical position when said mail sack is delivered, substantially as described.

6. In a mail bag deliverer, the combination of a cylindrical hollow standard provided with a longitudinal slot, a carrier comprising an elongated member provided with a neck portion operating along said slot, a curved

plate within said standard of a width greater than said slot, said curved plate being secured to said elongated member, trigger arms pivoted to said elongated member, means for detachably securing a mail sack to said trigger arm, means for elevating said carrier, means for holding said carrier elevated, and means cooperating to return said trigger arms to a vertical position upon the release of said mail bag, substantially as described.

7. In a mail bag deliverer, the combination of a hollow upright standard, a carrier comprising an elongated member provided with a neck portion operating along a slot formed in said standard, of greater width than said slot and connected to said elongated member, an upper trigger arm pivoted to said carrier and provided with a weighted rearward extension disposed within said standard, means limiting the downward swing of said upper trigger arm, a lower trigger arm pivoted to said carrier and unrestricted in its vertical swing, said lower trigger arm being provided with rearwardly diverging fingers, means for elevating said carrier, and dogs pivotally mounted on said standard and cooperating with said diverging fingers to hold said carrier nor-

mally latched in its elevated position, substantially as described.

8. In a mail bag deliverer, the combination of a hollow upright provided with a longitudinal slot, a movable carrier operating along said slot, an upper and a lower trigger arm pivotally mounted on said carrier and normally disposed in a vertical plane, means for detachably securing a mail bag on said trigger arms when the latter is swung in a horizontal plane, a support at the upper end of said upright, a flexible member connected at one end to said carrier, thence reeving over said support, a weight carried by said flexible member, said weight being slightly less than the weight of the carrier, whereby a counterweight is provided to assist in elevating the carrier and mail sack and also to retard the rapid descent of said carrier when released, 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,
C. P. BEDDOW.