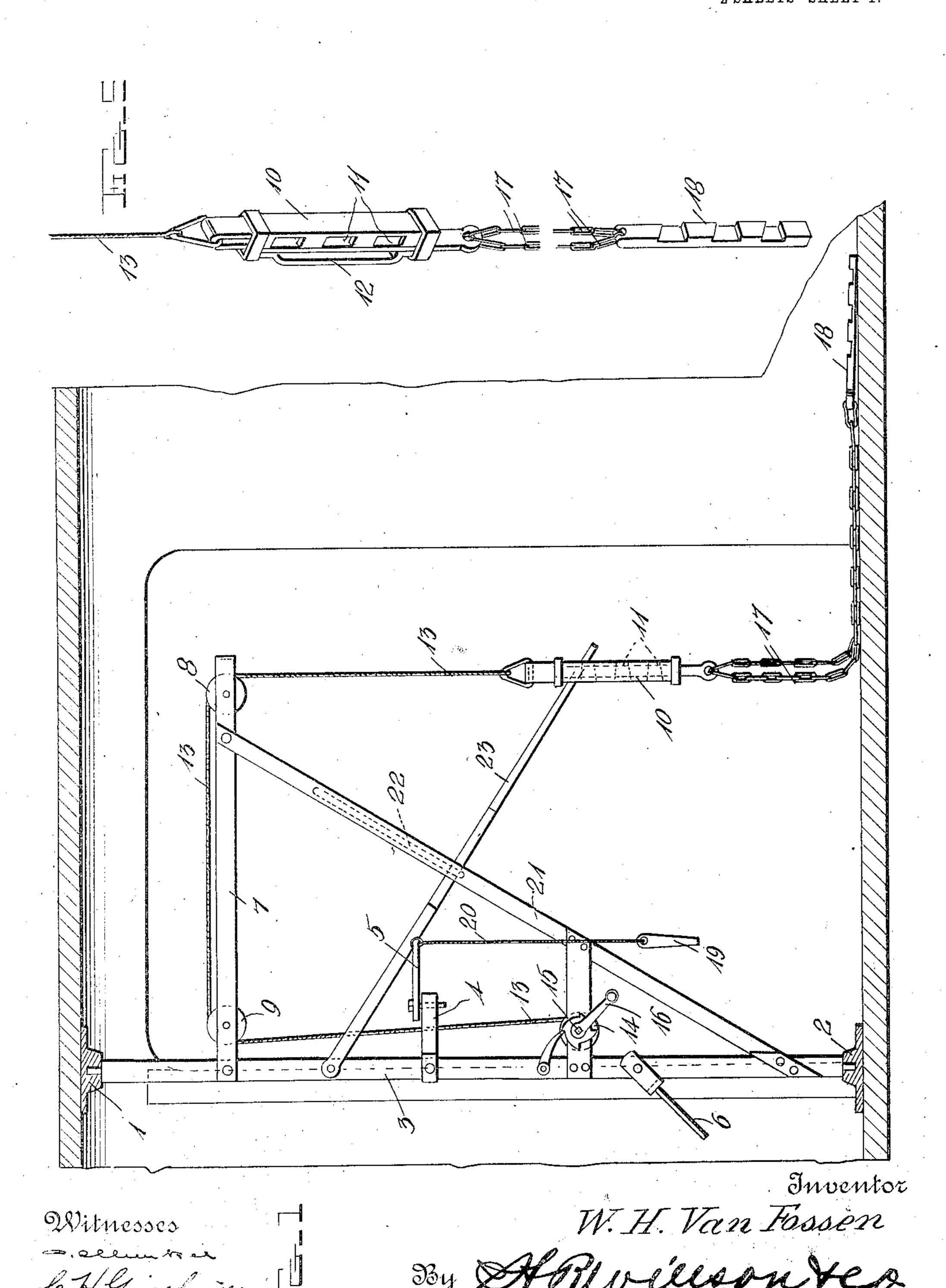
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MAIL BAG DELIVERY APPARATUS.

APPLICATION FILED JAN. 20, 1908.

916,902.

Patented Mar. 30, 1909. 2 SHEETS—SHEET 1.



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## STATES PATERT OFFICE.

WILLIAM H. VAN FOSSEN, OF EUREKA, ILLINOIS, ASSIGNOR OF ONE-HALF JON. B. CRAWFORD, OF EUREKA, ILLINOIS.

## MAIL-BAG-DELIVERY APPARATUS.

No. 916,902.

Specification of Letters Patent. Patented March 30, 1909.

Application filed January 20, 1908. Serial No. 411,696.

To all whom it may concern:

and useful Improvements in Mail-Bag-De-having longitudinally spaced apertures as 11 tains to make and use the same.

use on fast trains.

mail bag deliverer which is simple in con- | block 10. A flexible element 17 preferably struction, cheap to manufacture and easy in the form of a chain is secured at its oppoand reliable in its operation.

Another object is to provide an apparatus 20 of this character which operates automatically to release the bag on its being swung

outward at right angles to the car.

In the accompanying drawings. Figure 1 represents a side elevation of a portion of a 25 car equipped with this improved delivery apparatus which is shown in position ready to receive the bag, and taken from within the car. Fig. 2 is a similar view with the de- other end to one arm of the U-shaped memliverer shown in position ready to be swung ! 30 out. Fig. 3 shows a horizontal section taken | the shaft 3 as heretofore described. on line 3—3 of Fig. 2. Fig. 4 is a similar view showing the arm swung out. Fig. 5 is a perspective view of the bag engaging member detached.

In the embodiment illustrated, two bearing or socket members 1 and 2 are shown adapted to be secured to the top and floor of | the car respectively at the inside thereof about six inches more or less from the door.

40 A rotatable upright or shaft 3 is mounted in these sockets and has its upper reduced end first unwinds the cable 13 from the drum 14 made longer than the lower end to provide | into the position shown in Fig. 2. The mail for the lifting out of the said shaft from said sockets to transfer it from one side of the car | element 17 which is wound tightly there-

coupling member 4 in which is pivotally the hollow block 10 and the wedge shaped mounted to swing laterally an approximately key 19 is passed through one of the aper-U-shaped member 5 for a purpose to be de- litures in the block 10 and the notch in the

ing or turning the shaft to swin, the delivery handle 6 is then raised in position at right apparatus outside the car door and to return angles to the shaft 3 and said shaft is rotated it to normal position when desired.

thaving skive pulleys 8 and 9 arranged at op-Be it known that I, W. H. Van Fossen, a posite ends thereof, the pulley 9 being locitizen of the United States, residing at cated at the inner side or face of the shaft 3. Eureka, in the county of Woodford and A bag engaging member is carried by this 5 State of Illinois, have invented certain new arm 7 and comprises a bar or hollow block 10 60 livery Apparatus; and I do declare the fol- with a guide 12 arranged longitudinally at lowing to be a full, clear, and exact descrip- one side thereof. This block 10 is attached tion of the invention, such as will enable to one end of the cable 13 which passes over 10 others skilled in the art to which it apper- the pulleys 3 and 9 on the arm 7 and is se- 65 cured at its other end to a ratchet drum 14 This invention relates to an improved mail | having square ends 15 to receive a handle 16 bag delivery apparatus especially adapted for which is reversible for use on either of said. I square ends and adapted to wind and un-The object of the invention is to provide a wind the cable for raising and lowering the 70 site ends to the free end of said block 10 and has a notched bar 18 secured thereto which is adapted to extend into the hollow block 75 and be secured therein by means of a wedge shaped key 19 which passes through one of the spertures in the block and through one of the notches in said bar 18 which are arranged to register with the apertures in the 80 block. The key 19 is attached to one end of a flexible element 20 which is secured at its. ber 5 which is pivoted to swing laterally on

The arm 7 is preferably braced by a bar 21 connected at one end to the lower end of the shaft 3 and at its other end to the outer end of said arm 7. A slotted guide 22 is carried by the arm 21 through which extends an 90 arm 23 pivoted at one end to the shaft 3 and having its free end operable in the guide 12 of the block 10 to prevent said block from revolving when the device is swung outward.

In the use of this apparatus the operator 95 bag or bags are then placed on the flexible 45 door to the other. Fixed to this shaft is a around and the bar 18 is inserted within 100 scribed. A handle member 6 is pivoted to | bar 18, the bag being thereby securely held 50 said shaft 3 and adapted to be used in swing- | in position ready to be swung outward. The 105 to swing the arm 7 outward at right angles Fixed at one end to the shaft 3 and ex- to the car door. This swinging of the shaft 55 tending at right angles therefrom is an arm 7 | 3 causes the free end of the arm of the U- 110

shaped member 5 to strike against the jamb of the car door which swings the other arm thereof connected with the flexible element 20 inward and withdraws the key 19 from 5 the block 10 whereby the weight of the mail causes the bar 18 to be immediately released from said block 10 and the mail dropped on to the platform of the station. The handle 6 is then turned to swing the apparatus within 10 the car ready for the next operation.

I claim as my invention:

1. In a mail bag delivery apparatus, the combination of a revoluble upright having an arm extending laterally therefrom, bag 15 engaging means carried by said arm, means for locking said bag engaging means and means operable on the outward turning of said upright to release said bag locking means.

2. In a mail bag delivery apparatus, the combination of a revoluble upright having an arm extending laterally therefrom, bag engaging means carried by said arm, means for locking said bag engaging means, an ap-25 proximately U-shaped member pivotally mounted on said upright to swing laterally and having one arm thereof connected with a locking means for said bag engaging means

and with its other arm adapted to engage 30 a stationary member to release the locking

means for the bag engaging means. 3. In a mail delivery apparatus, the combination of a revoluble upright having an arm extending laterally therefrom and pro-35 vided with skive pulleys, a ratchet drum secured to said upright, a cable connected at one end to said drum and passing over said pulleys, a hollow block carried by said cable and having apertures extending transversely 40 therethrough, a flexible element connected at one end to said block and a bar connected with said element slidable within said block and having recesses adapted to register with

the apertures in said block, a key adapted

45 to engage said bar and block and hold them

in connected position and means operable by the outward swinging of said laterally extending arm to disengage said key and release the bar from the block.

4. In a mail delivery apparatus, the com- 50 bination of a revoluble upright having an arm extending laterally from the upper end thereof, a brace bar connected at one end with said upright and at its other end with said arm and having a slotted guide arranged 55 thereon, an arm pivoted at one end to said upright and extending through the slotted guide of said brace bar, a hollow block carried by said laterally extending arm and having apertures extending transversely 60 therethrough, a bag engaging element mounted on said block and having a notched bar adapted for insertion within said block, a guide carried by said block adapted to be engaged by the free end of said pivoted arm 65 to prevent turning of the block and means

element from the block. 5. In a mail bag deliverer, means for suspending a bag from a crane, and means whereby said bag is automatically released when the crane has been swung outward to 75

for locking the member carried by the flexi-

ble element within said hollow block said

means being operable on the outward swing-

ing of the lateral arm to release saidflexible 70

its fullest extent.

6. A mail bag deliverer, comprising a pivoted crane, means connected to said crane for suspending a mail bag, and means for automatically releasing the mail bag 80 from the suspension when the crane has been swung outward to its fullest extent.

In testimony whereof I have hereunto set my hand in presence of two subscribing

witnesses.

## WILLIAM H. VAN FOSSEN

Witnesses:

D. G. PUTERBAUGH, ED E. ROBESON.