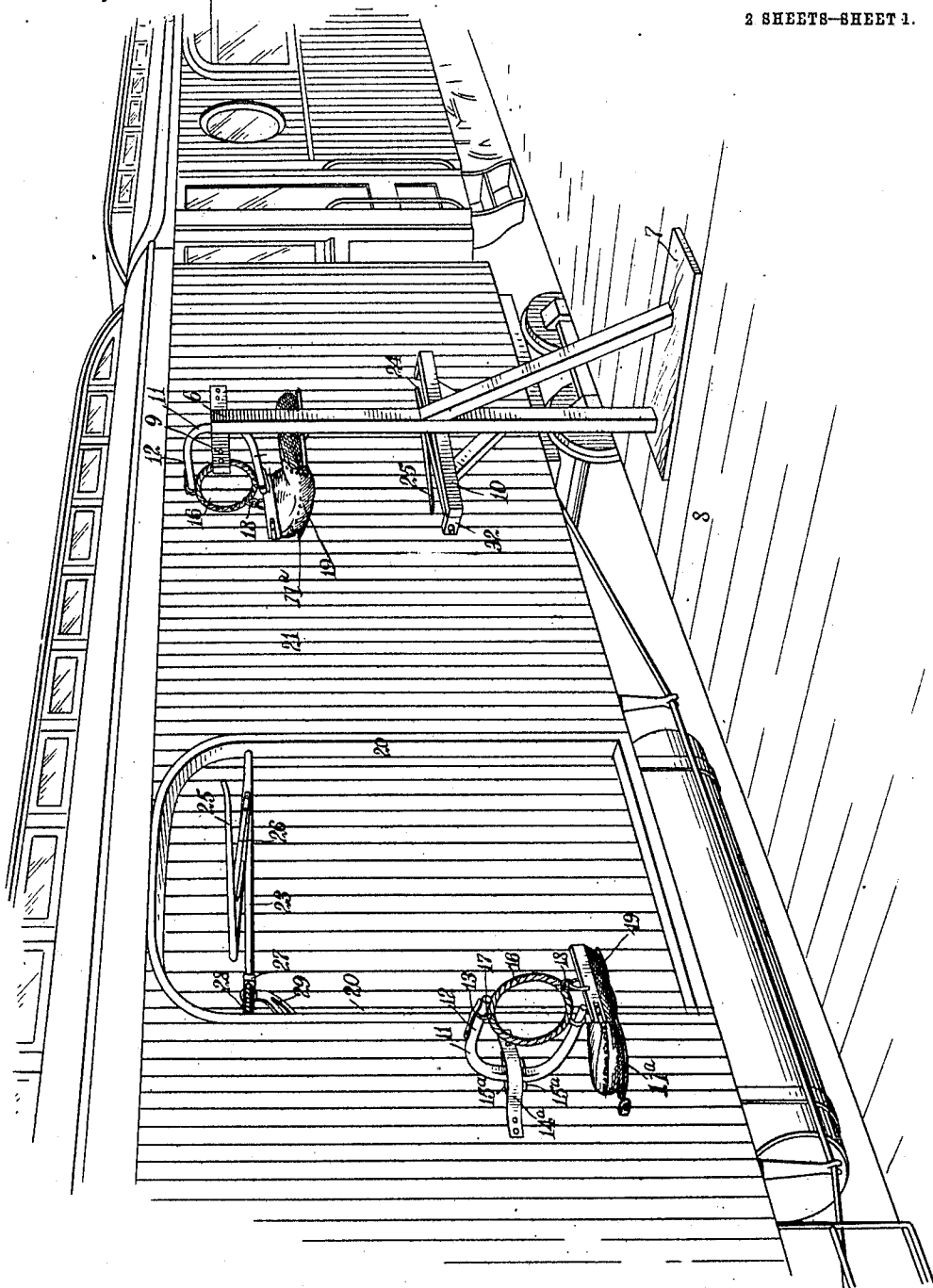


R. S. SCOFIELD.
MAIL POUCH TRANSFERRING APPARATUS.
APPLICATION FILED JULY 7, 1910.

984,396.

Patented Feb. 14, 1911.

2 SHEETS—SHEET 1.



WITNESSES:

E. B. Marshall
E. B. Marshall

Fig. 1.

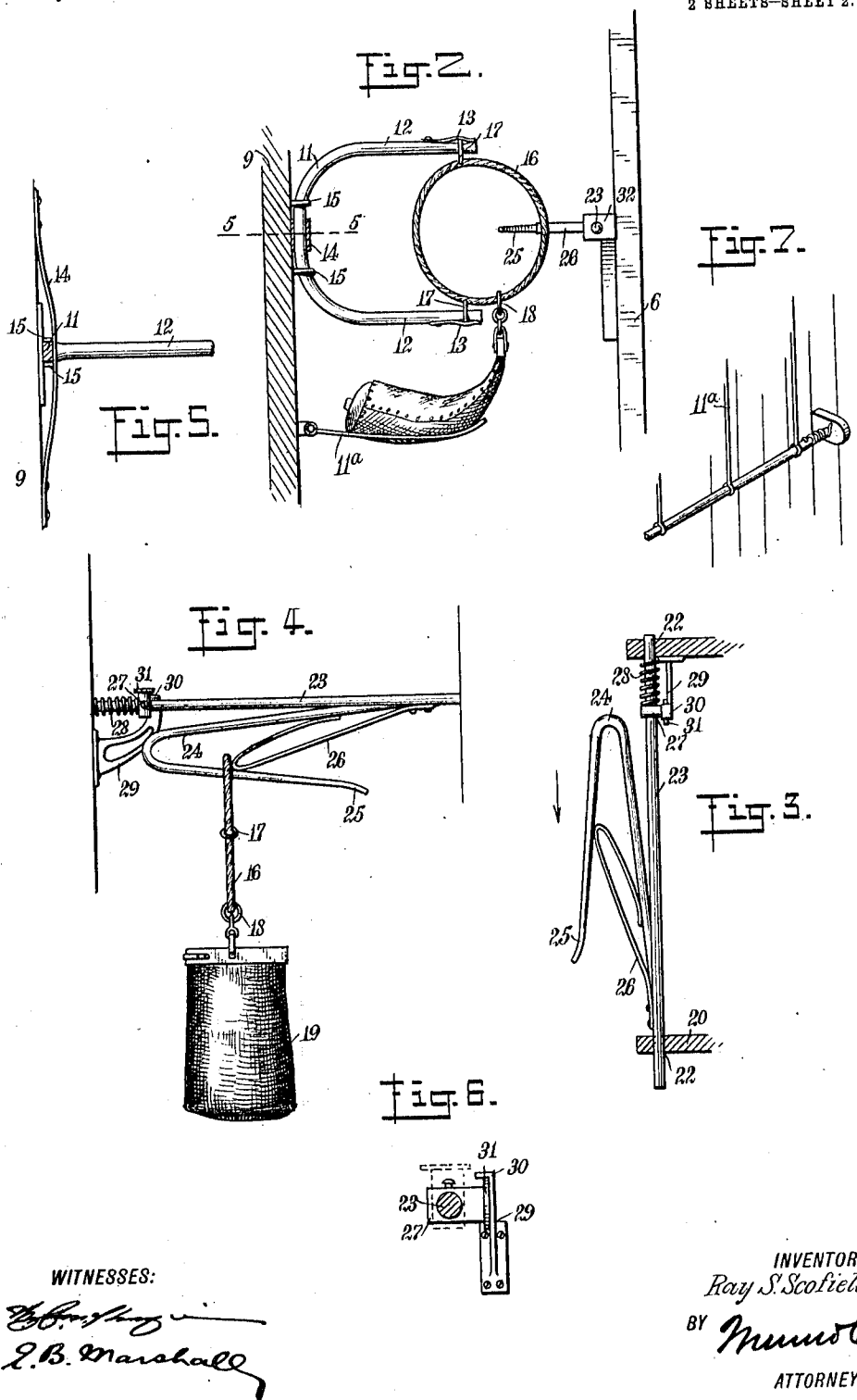
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UNITED STATES PATENT OFFICE.

RAY SANFORD SCOFIELD, OF LEWISTON, IDAHO.

MAIL-POUCH-TRANSFERRING APPARATUS.

984,396.

Specification of Letters Patent. Patented Feb. 14, 1911.

Application filed July 7, 1910. Serial No. 570,741.

To all whom it may concern:

Be it known that I, RAY S. SCOFIELD, a citizen of the United States, and a resident of Lewiston, in the county of Nez Perce and State of Idaho, have invented a new and Improved Mail-Pouch-Transferring Apparatus, of which the following is a full, clear, and exact description.

My invention relates to a mail pouch transferring apparatus, and it has for its object to provide an apparatus which may be constructed at little expense, the apparatus being durable and certain in its operation.

The desired object is attained by providing a yoke pivoted to a crane and a hook mounted on a car, the yoke being provided with means for holding it yieldingly in the direction of the tracks on which the car travels. The yoke is also provided with spring clasps for holding in place a ring to which a mail pouch may be secured. The hook, which is provided for engaging the ring, has a spring for preventing the escape of the ring after it has been caught. The hook is secured to a pivoted rod, yielding means being provided for holding the rod extended and against rotation.

Still other objects of the invention will appear in the following complete description.

In this specification I will describe a construction embodying a form of my invention, it being understood, however, that the scope of the invention is defined in the appended claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a perspective view showing a portion of the car and the crane in which my apparatus is mounted; Fig. 2 is a sectional view of a side of the car, to which the yoke is pivoted, the hook being shown mounted on the crane; Fig. 3 is a plan view showing the hook, the rod on which it is mounted, the bearings for the rod and the means for holding the rod yieldingly in the desired position; Fig. 4 is a side elevation of the hook shown in Fig. 3, after it has caught the ring to which the mail pouch is secured; Fig. 5 is a sectional view on the line 5—5 of Fig. 2; Fig. 6 is a sectional view through the rod on which the hook is mounted; looking

toward the boss; and Fig. 7 is a fragmentary view of the bracket on which the mail pouch is disposed.

By referring to the drawings, it will be seen that a crane or support 6 is mounted on a base 7, secured to the platform 8 at the side of the track, this crane or support 6 having cross arms 9 and 10 disposed one above the other. To the crane 6 is pivoted on a vertical axis the yoke 11, said yoke having terminals 12 spaced from each other. Spring clasps 13 are secured to the terminals 12 respectively. A bracket 11^a, on which the mail pouch 19 is disposed, is pivoted to the crane 6.

As best shown in Fig. 5 of the drawings, the body of the yoke 11, between the terminals, is angular in cross section, a spring member 14 being disposed across this angular portion of the yoke 11, the terminals of the spring 14 being secured to the cross arm 9. I prefer to connect the yoke 11 pivotally with the crane 6 by means of the staples 15, one disposed above and the other below the spring 14. A ring member 16 is provided, the ring member 16 having two loops 17, which are adapted to be disposed on the terminals 12 of the yoke 11 and be held yieldingly in place by means of the spring clasps 13, the ring member 16 also having a ring 18, to which may be secured a mail pouch 19. The door jambs 20 of a car 21 are provided with bearings, in which is disposed a rod 23, the said rod being adapted to move longitudinally of the bearings 22 and being adapted also to rotate in said bearings. Secured to the rod 23 there is a hook 24, having a long loop and a terminal 25. A spring 26 is secured to the rod 23 and is adapted to press yieldingly against the terminal 25 of the elongated hook 24. The rod 23 also has a boss 27, a spring 28 being wound on the rod 23 between one of the bearings 22 and the boss 27, to hold the rod and the elongated hook 24 extended in the direction of the movement of the car. Secured to one of the door jambs 20 is a bracket 29 having an upper spring terminal 30 for engaging the bead 31 on the boss 27.

In addition to mounting one of the yokes 11 on the crane 6 and one of the elongated hooks 24 on the car 21, I mount an elongated hook 24 on the cross arm 10 of the crane 6 and a yoke 11 on the side of the car. The

elongated hook 24, mounted on the crane 6, has a spring 26 and a rod 23, the rod 23 being disposed in flanges 32 secured to the cross arm 10. The rod 23 also has a boss 27, with a bead 31, a spring 28 being mounted on the rod 23, all in the manner described with reference to mounting the elongated hook 24 on the car. The elongated hook 24, mounted on the cross arm 10, also is provided with a bracket 29, secured to one of the flanges 32, this bracket 29 having a spring upper terminal 30. The yoke 11, mounted on the side of the car, is constructed in the manner described with reference to the yoke 11 mounted on the crane 6, this yoke 11, carried by the car, being pivoted to the side of the car by means of staples 15^a, a spring 14^a being disposed across the body of the yoke 11 which is angular in cross section, the terminals of the spring 14^a being secured to the side of the car in a manner similar to that already described with reference to the mounting of the yoke 11 on the crane 6.

In using the invention, when the ring member 16 is carried by the yoke 11, pivoted to the crane 6 in the manner described, and a similar ring member 16 is mounted on the yoke 11 carried by the car, the ring member 16 carried by the yoke 11, pivoted to the crane, will be caught by the elongated hook 24, mounted on the car, and the ring member 16, carried by the yoke 11 pivoted to the car, will be caught by the elongated hook 24 mounted on the cross arm 10 of the crane 6. As the car approaches with its elongated hook open in the direction of its movement, the ring member 16 will be caught by the terminal 25 of the hook, the spring 26 being pressed back to permit the ring to pass. When the ring member 16 reaches the inner end of the terminal 25, there will be a strain on the ring member 16, which will cause the yoke 11, to the terminals of which it has been secured, to rotate on its pivot and, at the same time, the rod 23 will be drawn against the pressure of its spring 28. As the yoke 11 is turned, the strain continues until the ring is pulled free from the terminals 12. As the body of the yoke 11, between its terminals, is angular in cross section, the spring 14 will cause the yoke to continue to turn until a new face of the angular portion of the yoke is disposed flat against the inner side of the spring, when the yoke will be held stationary out of the line of travel. As the rod 23, with its boss 27, is moved against the pressure of the spring 28, the boss 27, with its bead 31, will be drawn out of contact with the flange on the upper spring terminal 30, and the rod 23 will be permitted to rotate until the weight of the elongated hook, the ring member 16 and the mail pouch 19, are disposed immediately beneath the rod. In the same manner, the elongated hook 24 mounted on the cross arm

10 on the crane 6, catches the ring member 16, mounted on the terminals 12 of the yoke 11 pivoted to the side of the car.

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

1. In a mail pouch transferring apparatus, a support, a yoke pivoted to the support and having two terminals, means for holding the yoke yieldingly in a predetermined position relatively to the support, spring clasps on the terminals of the yoke respectively, a ring member adapted to be held yieldingly on the terminals by the spring clasps, a hook adapted to be moved relatively to the support to engage the ring member, a spring having a member disposed against a terminal of the hook, for preventing the escape of the ring member when it is caught by the hook, a rod to which the hook is secured, bearings for the rod in which it may rotate and move longitudinally, a boss secured to the rod, a spring mounted on the rod between one of the bearings and the boss, for holding the rod yieldingly extended, and a member for engaging the boss when the rod is in a predetermined position for holding the rod yieldingly against rotation.

2. In a mail pouch transferring apparatus, a support, a yoke pivoted to the support and having two terminals, means for holding the yoke yieldingly in a predetermined position relatively to the support, spring clasps on the terminals of the yoke respectively, a ring member adapted to be held yieldingly on the terminals by the spring clasps, a hook adapted to be moved relatively to the support, to engage the ring member, a spring having a member pressing against a terminal of the hook for preventing the escape of the ring member when it is caught by the hook, a rod to which the hook is secured, bearings for the rod, in which it may rotate and move longitudinally, means for holding the rod yieldingly extended in the bearings, and means for preventing the rotation of the rod when in a predetermined position relatively to the bearings.

3. In a mail pouch transferring apparatus, a support, a yoke pivoted to the support and having two terminals, means for holding the yoke yieldingly in a predetermined position relatively to the support, a ring member having two loops, which are adapted to be disposed on the terminals, respectively, and spring clasps on the terminals for engaging the loops.

4. In a mail pouch transferring apparatus, a support, a yoke pivoted to the support and having two terminals, the yoke between the terminals having a body angular in cross section, and a spring disposed across the angular body of the yoke with its terminals secured to the support.

5. In a mail pouch transferring apparatus, a support, a yoke pivoted to the support and having two terminals, the yoke between the terminals having a body angular in cross section, a spring disposed across the angular body of the yoke, with its terminals secured to the support, and spring clasps mounted on the terminals of the yoke respectively.

6. In a mail pouch transferring apparatus, a support, a yoke pivoted to the support and having two terminals, a ring to which a mail pouch may be secured, means for holding the ring in a vertical plane between the terminals of the yoke, and a pivoted bracket disposed under the yoke for supporting the mail pouch.

7. In a mail pouch transferring apparatus, a support, a yoke pivoted to the support and having two terminals, a ring member, means for holding the ring member in a vertical plane between the terminals of the yoke, a hook adapted to be moved relatively to the support, for engaging the ring member, a spring for pressing against the terminals of the hook, for preventing the escape of the ring member when it is caught by the hook, a rod to which the hook is secured, bearings for the rod, in which the rod may rotate and move longitudinally, a boss secured to the rod, a spring mounted on the rod between one of the bearings and the boss, for holding the rod yieldingly extended, and a member for engaging the boss when the rod is in a predetermined position, for holding the rod yieldingly against rotation.

8. In a mail pouch transferring apparatus, bearings, a rod mounted for rotating and for moving longitudinally in the bearings, a hook secured to the rod, a spring for pressing against the terminal of the hook, a boss secured to the rod, a spring disposed between one of the bearings and the boss, for holding the rod yieldingly extended in the bearings, and a member for engaging the boss when the rod is in a predetermined position relatively to the bearings, for preventing the rotation of the rod.

9. In a mail pouch transferring apparatus, bearings, a rod mounted for rotating and for moving longitudinally in the bear-

ings, hook means secured to the rod, a boss secured to the rod, a spring disposed between one of the bearings and the boss for holding the rod yieldingly extended in the bearings, and a member for engaging the boss when the rod is in a predetermined position relatively to the bearings, for preventing the rotation of the rod.

10. In a mail pouch transferring apparatus, bearings, a rod mounted for rotating and for moving longitudinally in the bearings, hook means secured to the rod, a boss secured to the rod, a spring disposed between one of the bearings and the boss, for holding the rod yieldingly extended in the bearings, and a spring member for engaging the boss for holding the rod yieldingly against rotation.

11. In a mail pouch transferring apparatus, a support, a yoke pivoted to the support and having two terminals, a ring member, means for holding the ring member in a vertical plane between the terminals of the yoke, a hook adapted to move relatively to the support and adapted to engage the ring member, a rod to which the hook is secured, bearings for the rod, in which the rod may rotate and move longitudinally, a boss secured to the rod, a spring mounted on the rod between one of the bearings and the boss for holding the rod yieldingly extended, and a member for engaging the boss when the rod is in a predetermined position for holding the rod against rotation.

12. In a mail pouch transferring apparatus, a crane support, a yoke pivoted to the support and having two terminals, a ring member to which a mail pouch may be secured, means for holding the ring member in a vertical plane between the terminals of the yoke, a pivoted bracket disposed under the yoke for supporting the mail pouch, and means for holding the bracket yieldingly in a vertical position.

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

RAY SANFORD SCOFIELD.

Witnesses:

W. B. WALKER,

H. O. WOODRUFF.