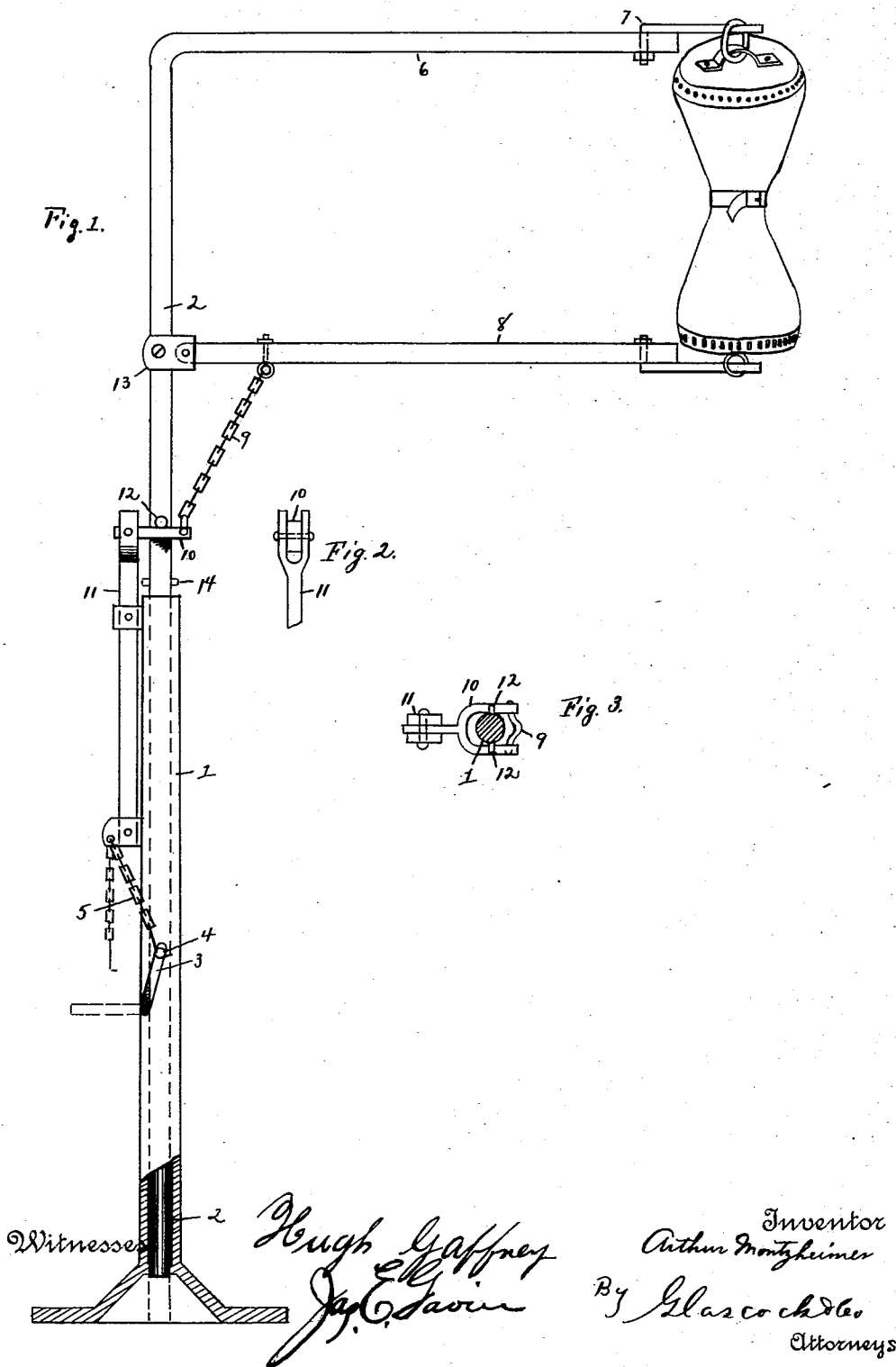


(No Model.)

A. MONTZHEIMER.
MAIL CRANE.

No. 568,955.

Patented Oct. 6, 1896.



UNITED STATES PATENT OFFICE.

ARTHUR MONTZHEIMER, OF MILWAUKEE, WISCONSIN.

MAIL-CRANE.

SPECIFICATION forming part of Letters Patent No. 568,955, dated October 6, 1896.

Application filed July 6, 1896. Serial No. 598,155. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR MONTZHEIMER, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented a certain new, useful, and valuable Improvement in Mail-Cranes, of which the following is a full, clear, and exact description.

My invention has relation to mail-cranes; and it consists in the novel construction and arrangement of its parts, as hereinafter described.

The object of my invention is to provide a mail-crane that will automatically turn the arms from the track as soon as the mail-bag is taken therefrom.

In the accompanying drawings, Figure 1 is a side elevation, partly in section, of the mail-crane. Figs. 2 and 3 are detail views and will be explained hereinafter.

The casting 1 serves as the base or foundation of the crane proper, 2. The lower end of the crane 2 is journaled in the casting 1. The said crane 2 is adapted to make a quarter-revolution. The casting is provided with the slot 3. Said slot is spirally inclined and passes one-quarter around the casting. The handle 4 passes through said slot 3 and is attached at its inner end to the crane 2. The chain 5 is fixed to a suitable lug attached to the casting 1. Said chain is provided at its lower end with a hook which is adapted to pass under the handle 4, as shown in the heavy lines in Fig. 1, and thereby hold the handle up and thus retain the arm 6 of the crane 2 in the position as shown.

The outer end of the arm 6 is provided with the rigid finger 7, which supports the upper end of the mail-bag in the ordinary manner. The crane 2 is also provided with the swinging arm 8, said arm also having at its outer end a finger adapted to engage the lower end of the mail-bag, as shown. The casting 13 may be adjusted up or down on the crane 2. The upper end of the chain 9 is connected to the arm 8. The lower end of said chain is connected to the outer ends of the yoke 10, said yoke being pivotally supported in the bifurcated end of the upright rod 11, said rod in turn being secured to the casting 1.

The crane is further provided with the lat-

erally-extending lugs 12 12, which are adapted to rest on the yoke 10 when the parts are in the position as shown in the heavy lines in Fig. 1. Fig. 2 is a rear view of the bifurcated end of the rod 11; and Fig. 3 is a top view of the yoke 10, illustrating how it supports the lugs 12 12.

In operation the device works as follows: The handle 4 is raised in the slot 3. This brings the arms 8 and 6 toward the railway-track. The hook of the chain 5 is then caught under the handle 4. The arm 8 is then swung up. This brings the yoke 10 up under the lugs 12 12, and the crane 2 is raised slightly. This permits the hook of the chain 5 to fall from under the handle 4, and the said chain assumes a perpendicular position, as indicated by the dotted lines. The mail-bag is then placed on the fingers of the arms 6 and 8 in the manner as shown, and thus the device is set. When the mail-car passes, it removes the mail-bag from the device, whereupon the arm 8 instantly swings down. This allows the yoke 10 to drop, and as the crane 2 descends the spirally-inclined slot 3, receiving the handle 4, will cause the crane 2 to make a quarter-revolution, and thus the arm 6 is automatically turned away from the track. The lugs 12 12 assume the position as indicated by the dotted lines 14 in Fig. 1. As the said lugs are turned they pass through the yoke 10.

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

1. In a revolving crane a locking device consisting of a pivotally-mounted yoke, lugs secured to the crane proper, a swinging arm secured to the crane, a connection connecting said swinging arm with the yoke.

2. A crane consisting of a hollow casting, said casting having in its side a spirally-inclined slot, the crane proper pivotally mounted in said casting, lugs located on said crane above the casting, a handle attached to the crane and extending through the said slot, a yoke pivotally mounted on the casting and adapted to engage the under side of the crane-lugs, a swinging arm attached to the crane, a connection connecting said yoke with the swinging arm, said crane adapted

to automatically turn when the bag is taken from the same.

3. In a revolving crane a supporting device consisting of a hook attached by a flexible connection to a stationary point; an ascending and descending protrusion secured to the crane, said hook adapted to pass under the said protrusion and support the crane,

said hook adapted to disengage the protrusion when the crane is raised.

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

ARTHUR MONTZHEIMER.

Witnesses:

CHAS. L. GOSS,
E. V. WRIGHT.