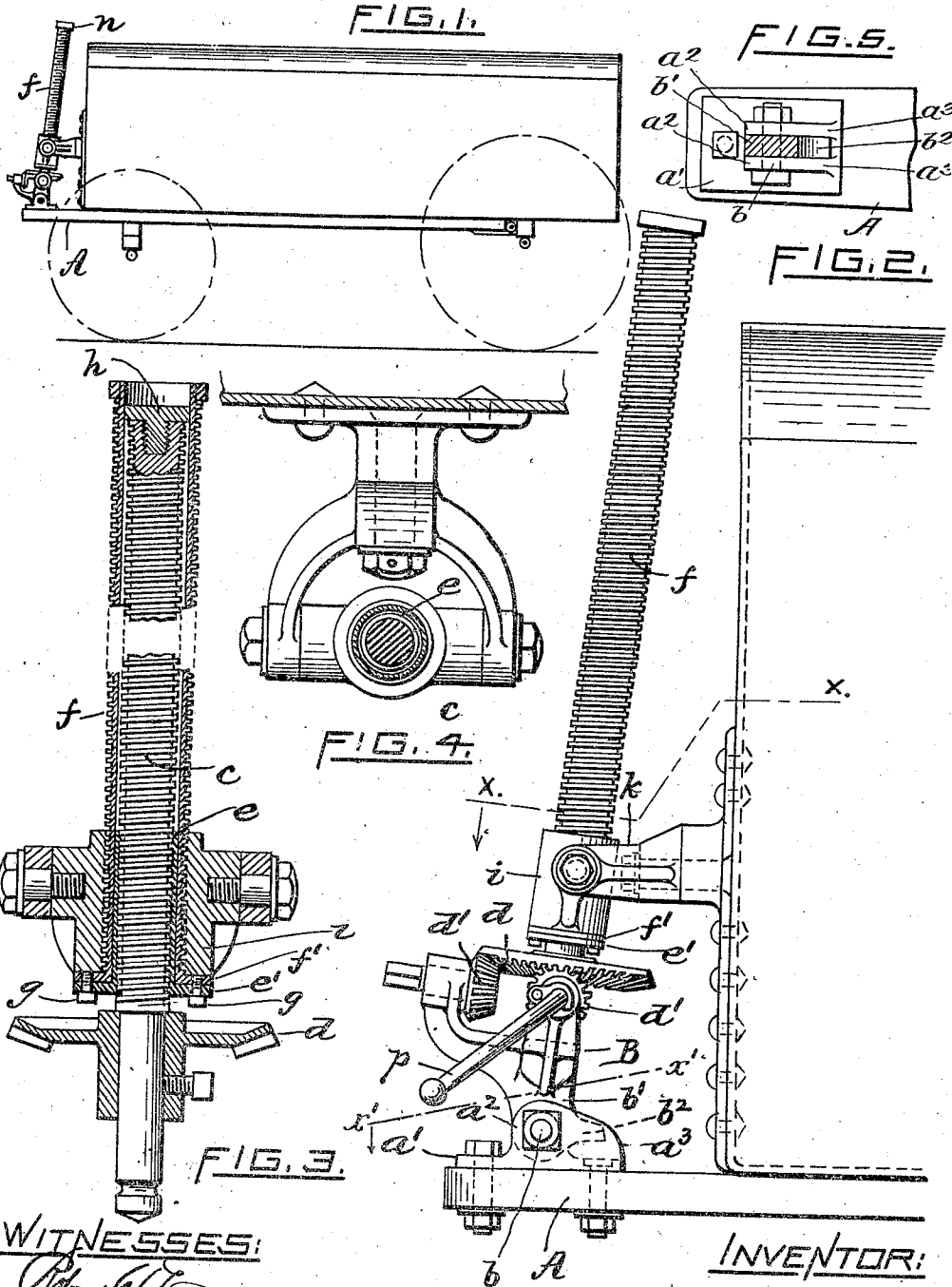


C. PAY.
LIFTING DEVICE FOR DUMPING WAGONS.
APPLICATION FILED MAR. 2, 1911.

1,027,150.

Patented May 21, 1912.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES PAY, OF PROVIDENCE, RHODE ISLAND.

LIFTING DEVICE FOR DUMPING-WAGONS.

1,027,150.

Specification of Letters Patent.

Patented May 21, 1912.

Application filed March 2, 1911. Serial No. 611,850.

To all whom it may concern:

Be it known that I, CHARLES PAY, a citizen of the United States, residing at the city of Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Lifting Devices for Dumping-Wagons, of which the following is a specification.

This invention relates to a structural improvement in that class of lifting mechanism wherein telescopically-arranged screw-shafts are employed to tip the cart-body a proper angle to unload the contents of the cart, and is an improvement upon that disclosed in Letters Patent of the United States, No. 816,035, issued to me March 27, 1906.

The object in view is to provide a pivot center construction for the operating shaft, in order to prevent wobbling of the latter during operation of the lifting mechanism.

The invention consists of the novel construction and combination of parts, as hereinafter described and set forth in the claim.

In the accompanying sheet of drawings, Figure 1 is a side elevation of a dumping cart having a lifting mechanism equipped with my improvement. Fig. 2 is an enlarged view of the lifting mechanism, showing the parts embodying my improvement. Fig. 3 is a central sectional view of the lifting mechanism. Fig. 4 is a plan section on line *x-x* of Fig. 2, and, Fig. 5 is a plan section of my improved pivot center construction for the operating shaft, taken on line *x'-x'* of Fig. 2.

Like reference characters indicate like parts.

Referring to the drawings, the operating shaft —*c*— is stepped in a swinging support —*B*—, which is pivotally connected to a plate —*a*¹— secured upon the cart-perches —*A*—. The tubular shaft —*f*— is telescopically upon the shaft —*c*— and is provided with an exterior screw-thread throughout its length. The cart-nut —*i*— engages the thread of the tubular shaft —*f*— and is pivoted upon the free ends of a yoke —*h*—, which in turn has its bottom pivoted upon a plate secured on the cart front. A removable bushing-nut —*e*— engages the thread

of the operating shaft —*c*—, and said nut fits within and is secured to the lower part of the tubular shaft —*f*—. A disk —*h*— is concentrically secured upon the top end of the operating shaft —*c*— and of a size to leave a surrounding projecting portion to bear in frictional contact upon the top end of the wall of said bushing-nut.

In connection with the above common construction and arrangement of parts, my improvement relates to the construction of plate —*a*¹— and the swinging support —*B*—, to prevent transverse wobbling of the operating shaft —*c*—. This plate —*a*¹— is provided with opposed ears —*a*²— through which passes a bolt that forms a pivot center, as —*b*—, and these ears extend longitudinally of the cart-body to form walls —*a*³—. The lower part of the support member —*B*— is in the form of an eye to receive the pivot center —*b*— and made to fit between the ears —*a*²—, and from the pivot center this eye part has an extension —*b*²— in sliding contact upon the opposed faces of the plate-walls —*a*³—, in the manner shown in Figs. 2 and 5. By this construction of the members —*a*¹— and —*B*— greater rigidity is had to overcome lateral strain upon the shaft —*c*—.

This improvement, as described, is essentially designed for use in my construction and manufacture of lifting mechanism for adaptation to heavy dumping vehicles.

What I claim is:—

In combination with the operating shaft —*c*—, the plate —*a*¹— having ears —*a*²— and walls extending parallel thereto, as at —*a*³—; a bolt passing through the ears of said plate, the shaft-support —*B*— having an eye formed at its lower part to receive said bolt and having an extension, as —*b*²—, in sliding contact upon the opposed faces of the walls of said plate, as shown and for the purpose specified.

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

CHARLES PAY.

Witnesses:

C. T. HANNIGAN,
ROBERT H. LOWE.