No. 674,882. Patented May 28, 1901.

J. A. SIVITS.

LOCOMOTIVE-TANK HOOK.

(Application filed Jan. 28, 1901.)

(No Model.)

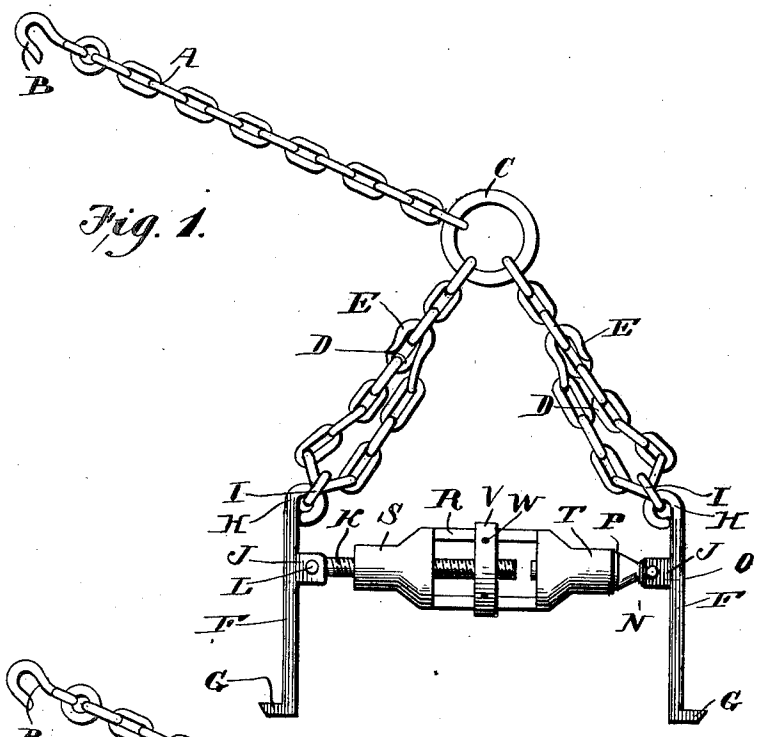


Fig. 1.

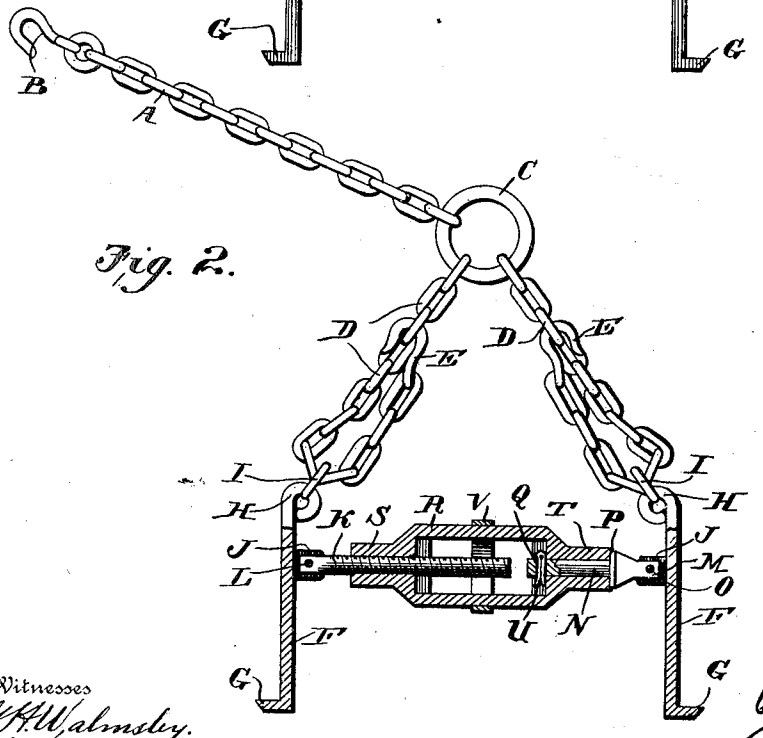


Fig. 2.

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UNITED STATES PATENT OFFICE.

JAMES A. SIVITS, OF CONNELLSVILLE, PENNSYLVANIA.

LOCOMOTIVE-TANK HOOK.

SPECIFICATION forming part of Letters Patent No. 674,882, dated May 28, 1901.

Application filed January 28, 1901. Serial No. 45,066. (No model.)

To all whom it may concern:

Be it known that I, JAMES A. SIVITS, a citizen of the United States, residing at Connellsville, in the county of Fayette and State of Pennsylvania, have invented a new and useful Locomotive-Tank Hook, of which the following is a specification.

This invention relates to improvements in lifting devices, and particularly to a lifting device for conveniently and readily lifting and replacing the tender or tank of a locomotive upon the truck; and the object is to provide a very simple and effective lifting device for this and other purposes.

With the above object in view the invention consists of the novel features of construction hereinafter fully described, particularly pointed out in the claims, and clearly illustrated by the accompanying drawings, in which—

Figure 1 is a side elevation of a construction embodying my invention, and Fig. 2 a vertical longitudinal sectional view of the same.

Referring now more particularly to the accompanying drawings, A designates a chain, having at one end a hook B to be placed in engagement with the links of the chain of a crane or elevator and at its opposite end attached to a ring C. D D designate two chains attached at one end to said ring and at their opposite ends carrying hooks E. Arms F F are provided, said arms having one of their ends bent angular to form engaging portions G upon their outer faces and at their opposite ends formed with eyes H H, in which rings I I are positioned. Chains D D are attached to said arms by having their free ends passed through the rings I I, with the hooks E E, carried by said free ends, inserted in one of their links.

Arms F F are formed upon their inner sides with spaced lugs J, the lugs of one arm receiving between them the end of a screw-threaded rod K, which is pivoted therein by a bolt L. The pair of lugs of the other arm F receives the head M of a bolt N, which is secured in said lugs by a bolt O. Said bolt N is formed at one end with a shoulder P and at its opposite end with a perforation Q.

For connecting the two arms F F and providing an adjustment for the same, so that they may be moved toward or away from each other, I provide a sleeve-nut R having its ends S and T reduced and formed with longitudinally-extending passages, the passage in the reduced end S being screw-threaded to receive the screw-threaded rod K and the passage in the reduced end T being smooth to receive the bolt N, upon which the nut is swiveled and retained from displacement by a split pin U, which passes through the perforation Q of the bolt. The shoulder of the bolt is disposed at the outer end of the reduced portion T of the nut, so that the nut is held from movement in one direction thereon, while the split pin prevents the movement of the nut thereon in a reverse direction.

About the central or body portion of the nut is a band or ring V, having at intervals thereabout openings W, in which a bar may be inserted to effect the rotation of the nut to secure the desired adjustment of the arms F.

It will be understood without further description that by rotating the sleeve-nut in one direction the arms F are adjusted toward each other and by rotating the same in a reverse direction said arms are adjusted from each other, so that they may be caused to tightly grip the article to be lifted or to release the same.

While my invention may be used with special advantage in connection with locomotives, and particularly for replacing the tender and tank of locomotives upon the truck thereof when the same has been removed therefrom by reason of a wrecker or in any other manner, yet I do not limit my invention to this particular use, as the same may be used in many other connections wherever a convenient and effective construction of lifting device is required.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a lifting device, the combination with two gripping-arms each provided with means for attachment of a chain or the like thereto, of a sleeve-nut having a threaded passage, a screw-threaded rod pivoted to one of said arms intermediately of its ends and engaging in said screw-threaded passage, and a bolt

pivoted to the other arm intermediately of its ends and to which said nut is swiveled, substantially as described.

2. In a lifting device, the combination with two gripping-arms each provided at one end with a ring and at the other end with an outwardly-projecting engaging portion, of a sleeve-nut having a screw-threaded passage formed in one end and a smooth passage in its opposite end, of a screw-threaded rod carried by one of said arms and engaging in the screw-threaded passage of the nut, and a bolt carried by the other arm and positioned in the smooth passage of said nut and upon which the nut is swiveled, substantially as described.

3. In a lifting device, the combination with two lifting-arms each provided at one end with a ring and at the other end with an outwardly-projecting engaging portion, of a sleeve-nut having a screw-threaded passage formed therein, a screw-threaded rod pivoted to one of said arms and engaging in said screw-threaded passage, a bolt pivoted to the other arm and upon which said nut is swiveled, and a band extending around the intermediate portion of said nut and formed with openings, substantially as described.

4. A lifting device comprising two arms having engaging portions formed on one end thereof, chains connected to the opposite ends of said arms and to each other, a chain connected to said first-mentioned chains at their juncture and provided with attaching means, a screw-threaded rod pivoted to one of said arms and extending inwardly therefrom, a bolt pivoted to the other arm and extending inwardly therefrom, a sleeve-nut swiveled upon said bolt and formed with a screw-threaded passage receiving the screw-threaded rod, substantially as described.

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Witnesses:
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