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1,540,135

J. KLINKHAMMER

TRUCK HOIST

Filed Aug. 4, 1924

Fig. 1

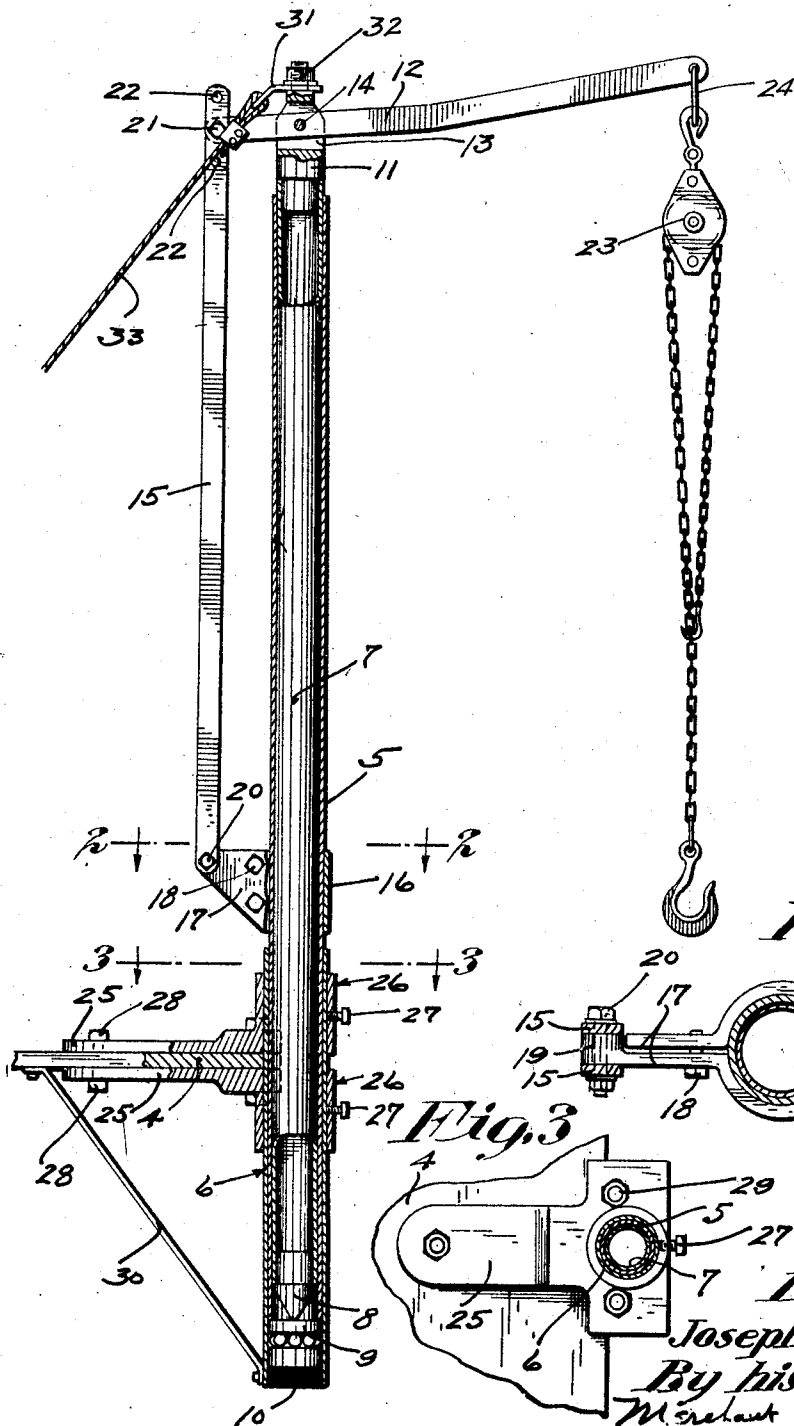


Fig. 2

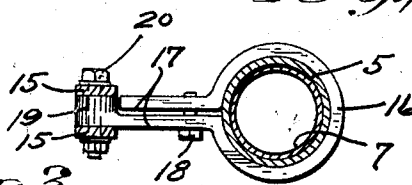
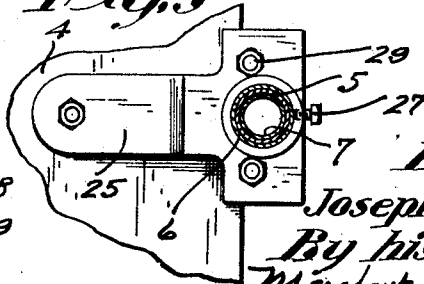


Fig. 3



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TRUCK HOIST.

Application filed August 4, 1924. Serial No. 730,061.

To all whom it may concern:

Be it known that I, JOSEPH KLINKHAMMER, a citizen of the United States, residing at Hopkins, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Truck Hoists; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My present invention has for its object to provide an extremely simple and highly efficient hoist attachment for trucks and the like and to this end it consists of the novel devices and combinations of devices hereinafter described and defined in the claims.

In the accompanying drawings, which illustrate the invention, like characters indicate like parts throughout the several views.

Referring to the drawings:

Fig. 1 is a view partly in elevation and partly in central vertical section showing the invention applied to a truck platform;

Fig. 2 is a detail view with some parts sectioned on the line 2—2 of Fig. 1; and

Fig. 3 is a detail view with some parts sectioned on the line 3—3 of Fig. 1.

The numeral 4 indicates a truck platform on which the hoist attachment is mounted. Said hoist attachment includes a long tubular main casing 5, the lower end portion of which is telescoped into a supplemental tubular casing 6, and a tubular mast 7 is mounted in the main casing 5 and has on its lower end a conical bearing point 8 which rests directly on an anti-friction step bearing 9. The bearing 9 is turnably supported on a plug 10 screwed into the lower end of the supplemental casing 6. The bearing point 8 is secured to the mast 7 by reducing the upper end portion thereof and telescoping the same into the lower end of said mast. The lower end portion of the main casing 5 is also mounted on the step bearing 9 for turning movement with the main casing 5. On the upper end of the mast 7 is a head 11, the lower end of which is reduced and telescoped into the upper end of the mast 7.

An arm 12 is inserted through a vertical slot 13 in the head 11 and is intermediately pivoted at 14 to said head. This arm 12 is held against pivotal movement by a pair of upright laterally spaced links or bars 15, the

lower ends of which are attached to an anchoring bracket 16 on the main casing 5 just above the supplemental casing 6 and its upper ends are attached to the short end of the arm 12. The anchoring bracket 16, as shown, is in the form of a split collar having a pair of radially projecting webs 17 connected by a pair of draw bolts 18 for frictionally clamping said anchoring bracket to the main casing 5. Formed with one of the webs 17 is a hub 19 that projects between the two links 15, and to which said links are secured by a nut-equipped bolt 21. The links 15 are adjustably secured to the arm 12 by a nut inserted through any one pair of a plurality of vertically spaced holes 22 therein and a hole in the short end of the arm 12. Obviously, by inserting the bolt 21 through the different vertically spaced pairs of holes 22, the long end of the arm 12 may be held at different elevations. A block and tackle indicated as an entirety by the numeral 23 is held suspended from a ring in the long end of the arm 12. The links 15 connect the main casing 5 and mast for common rotation to swing the arm 12 in a horizontal plane.

To support the hoist attachment on the truck platform 4, there is provided a bracket 25 comprising upper and lower members each of which has a sleeve bearing 26 in which the supplemental casing 6 is mounted. This bracket 25 is secured to the supplemental casing 6 by set screws 27. A nut-equipped bolt 28 is extended through aligned bores in the inner end portions of the members of the bracket 25 and the platform 4 and secures said members to the truck platform 4. The members of the bracket 25 are also connected by a pair of nut-equipped bolts 29 passed through aligned bores in said members just outward of the truck platform 4. Obviously either one or both of the members of the bracket 25 may be vertically adjusted on the supplemental casing 26 to receive the truck platform 4 therebetween. An oblique brace rod 30 is attached to the lower end of the supplemental casing 6 and truck platform 4 inward of the bracket 25 and holds the hoist attachment in an upright position.

An angle anchoring plate 31 is swiveled on a nut-equipped stud 32 formed with the upper end of the head 11, and one end of a guy cable 33 is attached to said anchor-

ing plate. The other end of the cable 33 may be attached to the opposite side of the truck platform, a building, post or other anchor to hold the hoist attachment from tipping while unusually heavy loads are being carried thereby. By the use of the above described hoist attachment a load may be lifted from the ground by the block and tackle 23 and then the mast 7 turned on the step bearing 9 to position the load over the truck platform 4 so that the same may be lowered by the block and tackle or a load may be lifted from the truck platform, swung outward thereof turning the mast 7, and lowered onto the ground.

The above described hoist attachment may be very quickly attached to a truck platform at either side or end thereof, and takes up very little room.

What I claim is:

1. A hoist attachment comprising an attaching bracket, a supplemental casing carried by the bracket and extending both above and below the same, a main casing turnably mounted in the supplemental casing, a mast in the main casing, said main casing and mast being supported on a bearing in the supplemental casing, an arm carried by the mast, and a block and tackle carried by the arm.

2. A hoist attachment comprising an attaching bracket, a supplemental casing carried by said bracket, a main casing turnably

mounted in the supplemental casing, a mast carried by the main casing for rotation therewith, a bearing in the supplemental casing turnably supporting the main casing and mast, and an arm carried by the mast.

3. A hoist attachment comprising an attaching bracket, a supplemental casing carried by said bracket, a main casing turnably mounted in said supplemental casing, a mast mounted in said main casing for rotation therewith, a bearing in the supplemental casing turnably supporting the main casing and mast, an arm intermediately mounted on said mast, an anchor bracket on the main casing, means connecting one end of the arm to the anchor bracket, and a block and tackle carried by the other end of the arm.

4. A hoist attachment comprising an attaching bracket, a supplemental casing carried by said bracket, a main casing turnably mounted in said supplemental casing, a mast mounted in said main casing for rotation therewith, a bearing in the supplemental casing turnably supporting the main casing and mast, an arm intermediately pivoted to the mast, an anchor bracket on the main casing, adjustable means connecting one end of the arm to the anchor bracket, and a block and tackle carried by the other end of the arm.

In testimony whereof I affix my signature.
JOSEPH KLINKHAMMER.