L. J. WELSH.

TONGUE TRUCK.

APPLICATION FILED OCT. 16, 1913.

1,107,001. Patented Aug. 11, 1914.

Fig. 1.

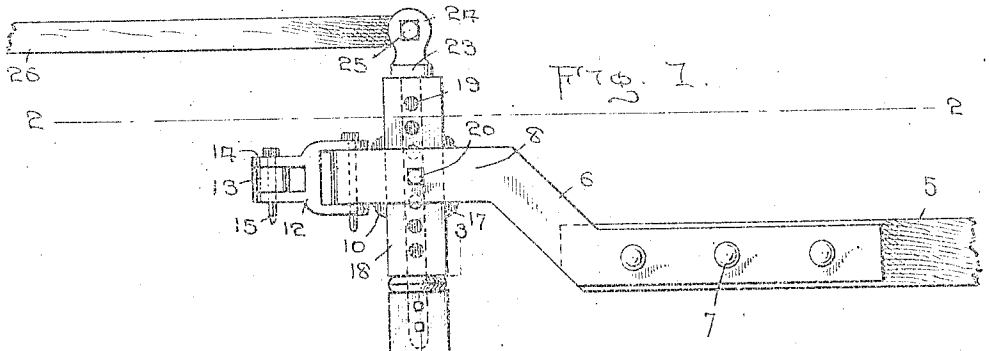


Fig. 3.

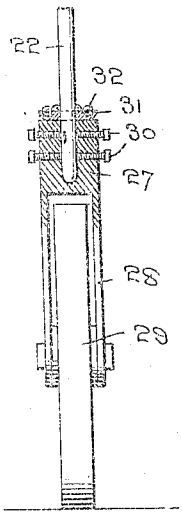


Fig. 4.

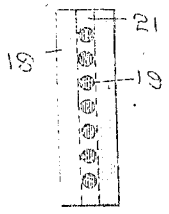
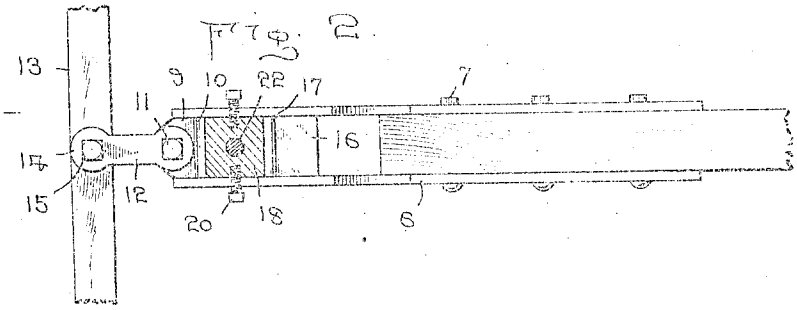


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

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TONGUE-TRUCK.

1,107,001. Specification of Letters Patent. Patented Aug. 11, 1914.

Application filed October 16, 1913. Serial No. 795,534.

To all whom it may concern:

Be it known that I, LINNIE J. WELSH, a citizen of the United States, residing at Plainville, in the county of Adams and State of Illinois, have invented certain new and useful Improvements in Tongue-Trucks; 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.

This invention relates to trucks, and more particularly to tongue trucks, and the principal object thereof is to provide a truck for supporting the tongues of heavy wagons or farm machinery.

Another object of the invention is to provide a truck of the class described embodying adjustable means for supporting tongues of different heights from the ground.

A further object of the invention is the provision of a truck of the class described which will be simple, durable, efficient in operation, and inexpensive to manufacture.

With these and other objects in view the invention resides in the construction, combination, and arrangement of parts hereinafter more fully described and claimed and illustrated in the accompanying drawing in which like characters of reference indicate like parts throughout the various figures of which,

Figure 1, represents a side elevational view of the truck showing the same attached to the tongue of a farm machine. Fig. 2, represents a horizontal, sectional view on the line 2—2 of Fig. 1. Fig. 3, represents a vertical, transverse, sectional view on the line 3—3 of Fig. 1. Fig. 4 represents a side elevational view of the adjusting post.

Referring more particularly to the drawing, 5 represents the tongue of a heavy farm machine or wagon to the opposite sides of which are secured the side bars 6 which comprise a tongue clamp, said bars being secured at their rear ends to the outer end of the tongue by means of bolts, 7. The outer ends of the bars forming the tongue clamp are off set upwardly from the rear ends thereof, and between the outer ends of the off set portions 8 of the bars a guide block 9 is secured, said block having oppositely disposed flanges 10 on the upper and lower sides thereof, and provided with a vertical opening therein for receiving a pin 11, by means of which a clevis 12 is secured to the block, a double tree 13 being pivoted between the outer spaced ears 14 of the clevis by means of a pin 15.

A guide block 16 provided with flanges 17 similar to flanges 10, is secured between bars 6 in spaced relation to the block 9 and between said blocks is slidably positioned an adjusting post 18 preferably squared in cross section, said post provided on its faces adjacent the bars 6 with recesses 19 in which set screws 20 which are threaded through the bars 6 are adapted to be seated, for holding the tongue clamp in adjusted position on the adjusting post.

The post is provided with a central opening 21 extending there through, for receiving a king pin 22 having an enlarged head 23 provided with spaced ears 24 between which is secured by means of a bolt 25, a truck tongue 26. The lower end of the king pin extends below the adjusting post and into a recess formed in the body of a yoke 27 provided with spaced arms 28 and between which a wheel 29 is pivoted, said pin being secured in place in said yoke by means of set screws 30.

Interposed on the king pin between the adjusting post and the yoke are a pair of oppositely disposed disks 31 provided with annular grooves in their opposing faces in which grooves are seated a plurality of ball bearings 32, whereby the friction incident to the turning of the guide wheel is minimized.

In order to adjust the tongue clamp for supporting tongues of different heights, the set screws 20 are retracted and are reset in the recess 19, at the required height.

Although I have described the preferred embodiment of my invention I may desire to make such changes in the combination, construction, and arrangement of parts as do not depart from the spirit of the invention or the scope of the appended claims.

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

1. A tongue truck comprising an adjusting post, a tongue clamp, said post provided with recesses therein, set screws in said clamp adapted to be seated in said recesses for adjusting said clamp on said post, a double tree, means for supporting said double tree on said clamp, means spaced from said double tree supporting means adapted to coact therewith for guiding said clamp in its adjustments on said post, a

guide wheel, a yoke in which said guide wheel is pivoted, a king pin rotatable in said post and secured in said yoke, and a tongue secured to said pin.

2. A tongue truck comprising a tongue clamp having spaced guide blocks therein, a vertically adjustable post mounted in said tongue clamp, and between said guide blocks, having a plurality of recesses therein, and a vertical centrally disposed orifice therethrough, a king bolt mounted in said orifice, a yoke member attached to the lower end of said king bolt and having a guide wheel mounted therein, a clevis connected to said tongue clamp, and a tongue connected to said king bolt.

3. A tongue truck comprising an adjustably mounted post, a king bolt running through said post, a horizontally rotatable yoke connected to said king bolt, and mounting a guide wheel therein, and an antifrictional device mounted on said king bolt and positioned between said yoke and said post.

4. A tongue truck comprising a tongue clamp, having spaced guide blocks therein, and bolt holes therethrough, a vertically adjustable post mounted in said tongue clamp between said guide block and having a plurality of recesses therein to register with said bolt holes, and having a vertical bore through the post, bolts running through the bolt holes of said tongue clamp and seated in said recesses to adjustably mount said post, a king bolt inserted in said bore of said post, and having a tongue attached thereto, a yoke connected to the lower end of said king bolt, and mounting a guide wheel therein, a plurality of disks having grooves therein, forming race-ways, and anti-frictional devices playing in said race-ways to reduce friction upon the rotation of said king bolt and yoke.

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

LINNIE J. WELSH.

Witnesses:

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J. G. THOMPSON.