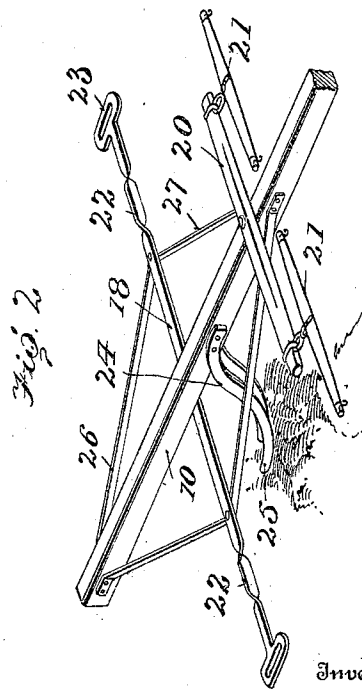
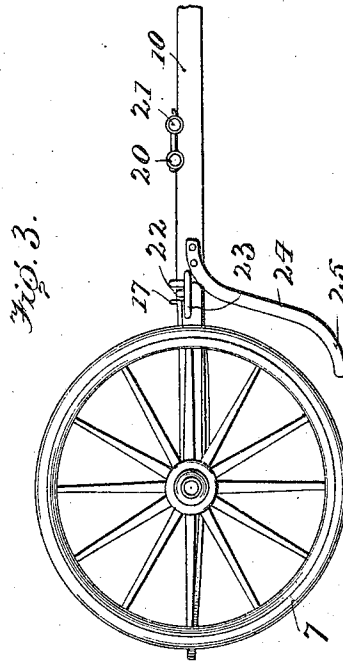
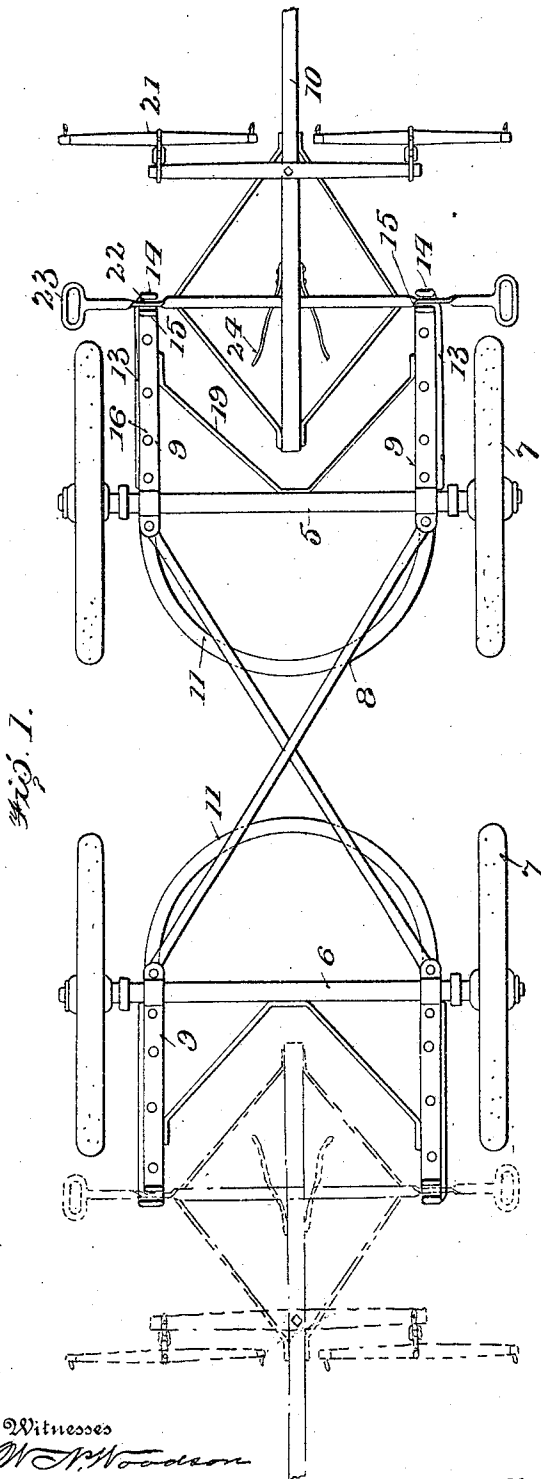


L. W. STATLER.
DETACHABLE DRAFT TONGUE FOR QUARRY TRUCKS.
APPLICATION FILED APR. 23, 1909.

944,387.

Patented Dec. 28, 1909.

2 SHEETS—SHEET 1.



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Fig. 4.

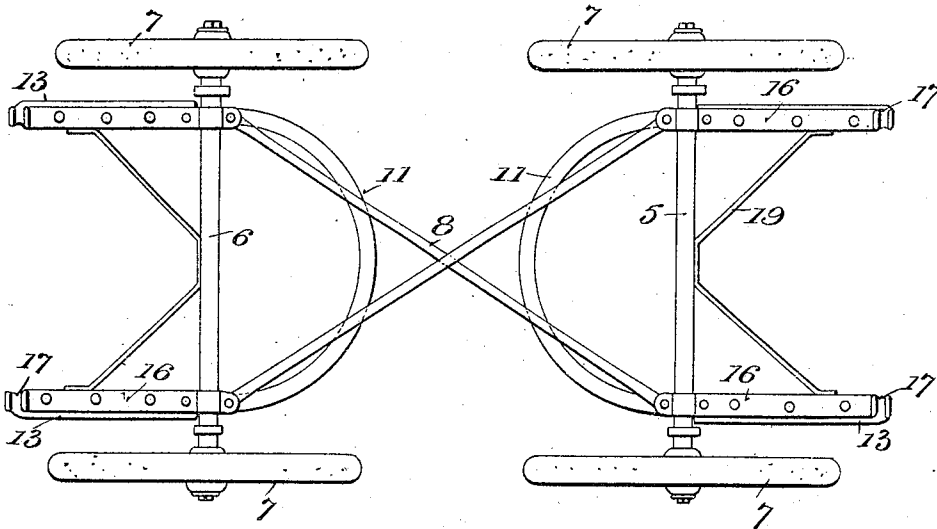
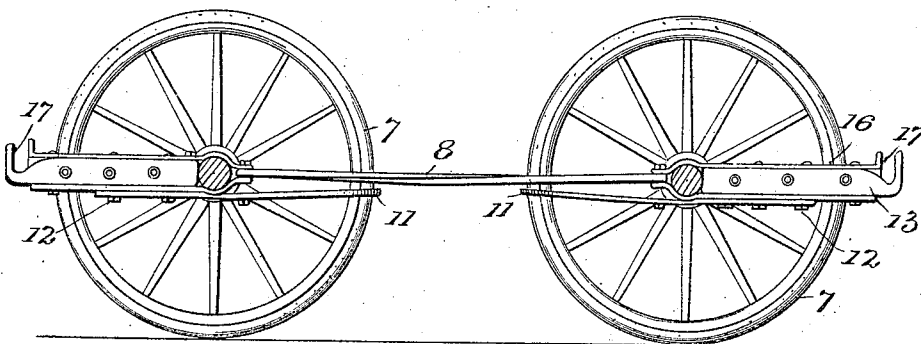


Fig. 5.



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UNITED STATES PATENT OFFICE.

LOWRY W. STATLER, OF PIQUA, OHIO.

DETACHABLE DRAFT-TONGUE FOR QUARRY-TRUCKS.

944,387.

Specification of Letters Patent. Patented Dec. 28, 1909.

Application filed April 23, 1909. Serial No. 491,708.

To all whom it may concern:

Be it known that I, LOWRY W. STATLER, citizen of the United States, residing at Piqua, in the county of Miami and State of Ohio, have invented certain new and useful Improvements in Detachable Draft-Tongues for Quarry-Trucks, of which the following is a specification.

This invention relates to trucks and more particularly to a truck especially designed for use in stone quarries for conveying blasted rock from the stone ledges to the crushing plant.

The object of the invention is to provide a quarry truck having a novel form of draft tongue capable of being readily attached to either end of the truck so that the latter may be caused to travel in either direction with equal facility.

A further object is to provide a truck in which the tongue attaching members are extended longitudinally beyond the periphery of the adjacent traction wheels thereby to permit the tongue or pole to be readily attached to or detached from the vehicle without the necessity of unhitching the team.

A further object is to provide the draft tongue or pole with depending shoes having curved terminals constituting runners, which latter serve to prevent the double and swingletrees from coming in contact with the ground when transporting the draft tongue from one truck to another.

A still further object of the invention is generally to improve this class of devices so as to increase their utility, durability, and efficiency.

Further objects and advantages will appear in the following description, it being understood that various changes in form, proportions, and minor details of construction may be resorted to within the scope of the appended claims.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a top plan view of a quarry truck constructed in accordance with my invention, the detachable tongue being shown in full lines on one end of the truck and in dotted on the other; Fig. 2 is a perspective view of the rear portion of the tongue

or draft device detached; Fig. 3 is a side elevation of the forward portion of the truck; Fig. 4 is a top plan view of the truck with the detachable tongue removed; Fig. 5 is a longitudinal sectional view of Fig. 4.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The improved truck forming the subject matter of the present invention includes front and rear axles 5 and 6 on which are mounted traction wheels 7, said axles being pivotally connected by diagonally disposed braces 8 constituting a short turning gear. Extending laterally from the axles 5 and 6 of the truck, are spaced supporting members or arms 9 having their outer or free ends extended longitudinally beyond the periphery of the adjacent traction wheels for attachment to the draft tongue or pole 10.

Interposed between the front and rear axles of the truck and preferably disposed beneath the diagonal braces 8, are arcuate members 11 having their opposite ends extended beneath the lower faces of the members 9 and to which they are rigidly secured by bolts or similar fastening devices 12. The segmental bars 11 not only assist in supporting the attaching arms 9, but also form the hounds of the truck. The arms 9 are reinforced and strengthened by the provision of metallic plates 13, the free ends of which are bent inwardly and upwardly in spaced relation to the adjacent ends of the arms to form vertically disposed lugs 14, which in conjunction with similar lugs 15 formed on the free ends of attaching plates 16 fastened on the tops of the arms, define sockets 17 for the reception of the cross arm or bar 18 of the draft tongue. The arms 9 are further reinforced and strengthened by inclined braces 19 the ends of which are attached to the inner faces of the adjacent arms, while the middle portion thereof is fastened in any suitable manner to the axle.

Attention is here called to the fact that the inclined braces 19 not only serve to strengthen the arms 9, but also assist in maintaining the latter in parallel relation to each other.

The draft tongue 10 is provided with the usual doubletree 20 and swingletrees 21 for attachment to the draft animals, whereby the truck may be transported from the quarry to the crushing plant.

The cross bar or arm 18 of the draft tongue is preferably formed of a flat strip of metal, the opposite ends of which are given a half turn to produce vertically disposed portions 22 adapted to enter the sockets 17 at either end of the truck and thus support the tongue in position on said truck so that the same may be caused to travel in either direction when the draft animals are hitched thereto.

It will here be noted that by extending the attaching arms 9 longitudinally beyond the peripheries or felloes of the adjacent traction wheels, the tongue may be readily attached to or detached from the truck without the necessity of first unhitching the draft animal or animals.

The opposite ends of the cross bar or arm 18 at the twisted portions 22 thereof, are extended laterally to produce oppositely disposed loops or finger pieces 23 by means of which said bar may be readily positioned in or removed from the adjacent sockets 17.

Depending from the rear end of the draft tongue 10, preferably beneath the bar 18, are shoes 24, the free ends of which are curved to form runners 25 adapted to travel over the surface of the ground and thus space the tongue from the ground and thus prevent the double and swingle trees from coming in contact therewith when transferring the tongue from one truck to another.

Suitable inclined braces 26 are preferably extended from the inner or rear end of the tongue to the outer portions of the bar 18, there being similar inclined braces 27 forming a connection between the bar 18 and the side walls of the tongue 10 in advance of the double-tree 20, as shown.

It is preferred to make the rims of the traction wheels half round in cross section so that said wheels may travel on a concave track or incline leading from the quarry to the plant, the tread surface of the tires being such that the wheels may travel on the bed of the quarry in the usual manner without unnecessary jar or jolting to the contents of the truck. Thus it will be seen that by grasping the finger-pieces 23 and exerting a slight upward pull on the bar 18, the vertical portions 22 of said bar may be readily disengaged from the sockets 17 so as to permit the tongue to be moved from one end of the truck and placed in position on the other end of the truck or on another truck when necessary. It will also be noted that when the tongue is detached from the truck, the curved faces or runners 25 will bear against the ground and support the rear end of the tongue in elevated position while the draft animals are moving the tongue from one truck to another.

Having thus described the invention, what is claimed as new is:

1. The combination with a wheeled truck, 65 attaching arms secured to the axle of the truck and having their free ends projected longitudinally beyond the peripheral edges of the adjacent traction wheels and provided with sockets, a flat transverse bar secured to the draft tongue and having its intermediate portion twisted to produce spaced vertically disposed portions arranged to enter the sockets for detachably securing the draft tongue in position on the truck. 75

2. The combination with a wheeled truck, spaced arms secured to the axle of the truck and having their free ends projected longitudinally beyond the adjacent traction wheels, a plate secured to one side of each arm and having its free end bent upwardly to form a vertically disposed lug, a plate secured to the top of each arm and provided with a similar lug forming in conjunction with the mating lug a socket, a draft tongue detachably secured to the truck, and a transverse bar carried by the draft tongue and provided with terminal finger-pieces, the intermediate portions of the transverse bar being twisted to produce vertical portions arranged to enter the adjacent sockets. 80 85 90

3. The combination with a wheeled truck having hounds, the ends of which are extended beneath and beyond the adjacent axles, arms secured to the extended portions of the adjacent hounds, co-acting plates secured to each arm and having their free ends extended longitudinally beyond the adjacent traction wheels and bent upwardly to produce vertically disposed lugs, braces extending between the inner faces of the arms and the adjacent axle, a draft tongue, a transverse bar secured to the inner end of the tongue, and having its opposite ends twisted to form vertical portions arranged to fit between the lugs of the adjacent arms, said cross bar terminating in finger-pieces, and shoes depending from the tongue and having their lower portions curved laterally to produce bearing surfaces. 95 100 105 110

4. A draft device for vehicles, comprising a tongue, a transversely disposed bar secured to one end of the tongue and having its opposite ends provided with finger-pieces, braces extending between the transverse bar and the adjacent longitudinal edges of the tongue, and shoes depending from the tongue in advance of the bar and provided with curved contact faces, that portion of the transverse bar near the finger-pieces being twisted to produce vertically disposed portions for engagement with a vehicle. 115 120

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

LOWRY W. STATLER. [L. S.]

Witnesses:

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