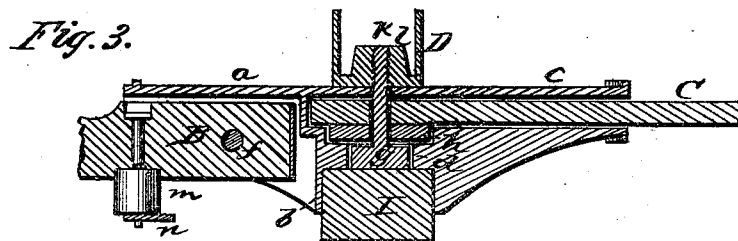
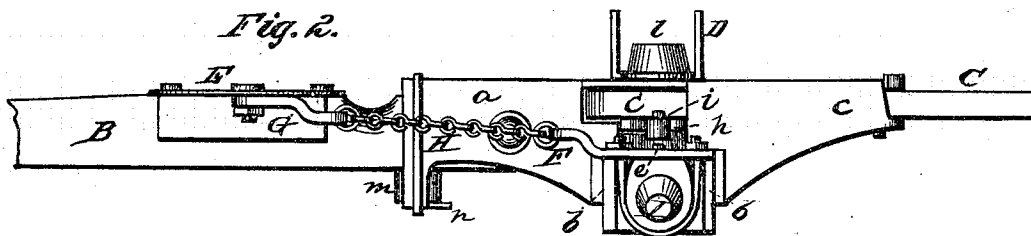
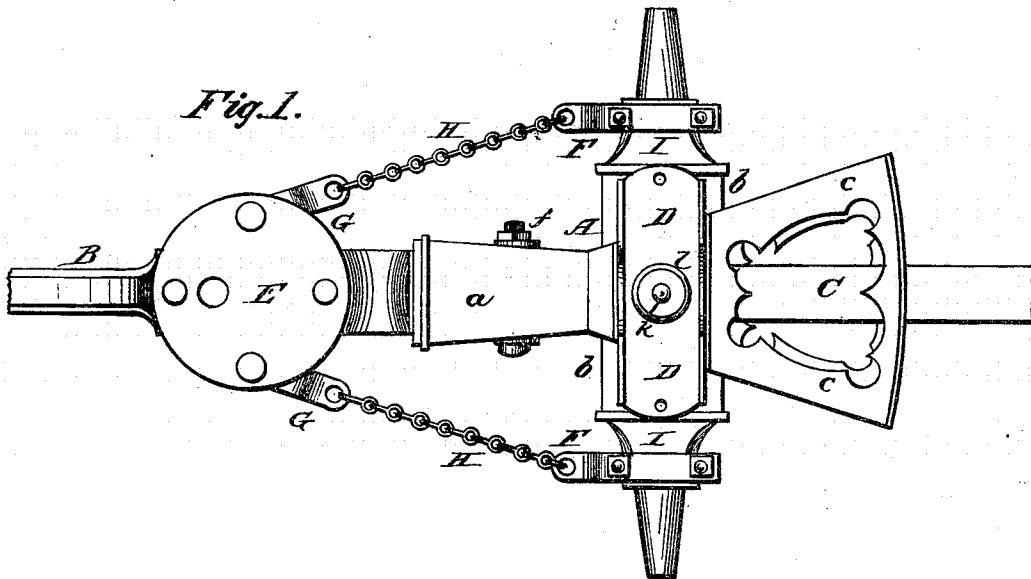


M. BURNS.
LUMBER WAGON.

No. 179,396.

Patented July 4, 1876.



Witnesses:
O. W. Bond.
S. A. Bond

Inventor:
Morgan Burns.
Per: W. H. Bond Attorneys.

UNITED STATES PATENT OFFICE.

MORGAN BURNS, OF HYDE PARK, ILLINOIS.

IMPROVEMENT IN LUMBER-WAGONS.

Specification forming part of Letters Patent No. **179,396**, dated July 4, 1876; application filed March 10, 1876.

To all whom it may concern:

Be it known that I, MORGAN BURNS, of Hyde Park, Cook county, State of Illinois, have invented a new and useful Improvement in Lumber-Wagons, of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view; Fig. 2, a side view; Fig. 3, a vertical longitudinal section of the parts shown.

In these figures the bolster is removed.

My invention consists in making a coupling-platform of cast metal, to be secured to the front axle; and adapted to receive the tongue and reach; in devices for connecting the bolster at the front with the other parts; in the manner of connecting the pole and taking the weight from the necks of the horses; in the use of strap and chain braces for the tongue, and in the other devices herein claimed.

In the drawings, A represents a coupling-platform. It is provided with a pole-socket, *a*, an axle-clasp, *b*, a reach-socket, *c*, and a nut-socket, *d*. All these parts are in a single piece of malleable iron. It is secured to the front axle by means of bolts and nuts *e*. The pole B is secured loosely in its socket *a* by means of a single bolt and nut, *f*. *g* is a nut, which is placed loosely in its socket or chamber *d*. *h* is a cover for the chamber *d*, held in place by screws or bolts and nuts *i*. *k* is a coupling-pin. It passes through the top of the platform, through the reach C, through the cover *h*, and is screwed into the nut *g*. This nut has one or more holes in its edge, and there is an opening in the wall of its chamber *d*, through which a pin can be inserted to hold the nut while the pin *k* is being brought to place. The upper end of this pin *k* has a screw-thread.

D is the bolster-clasp. It has a nut, *l*, to receive the upper end of *k*, and it is secured to the bolster by means of bolts. The bolster-clasp, in use, works on that part of the platform just over the end of the reach, and may be called the "bridge." *m* is a rubber spring. Its lower end rests on the bar *n*, cast with the platform. Its upper end extends up into the pole. It can be secured by means of a short bolt, extending down into it about half-way.

To prevent wear, the sides of the pole within the socket may be faced with metal.

E is a clasp and plate for the evener. It and the bolster-clasp D are made of malleable iron. It is bolted to the pole B. F are wrought-metal straps secured to the axle I by means of a strap-clasp. G are wrought-metal straps connected with evener-plate. H are chains, the ends of which are connected with the straps G H, serving the purpose of braces, but permitting a little lateral movement of the tongue.

The coupling-platform is about fifteen inches wide at the rear, and about two feet and four inches long. The rear portion is provided with suitable strengthening-flanges. By the use of this coupling-platform considerable expense is saved, and there is no king-bolt passing through the axle. The tongue is so connected and supported that its weight is not on the necks of the horses.

The spring *m* is useful, especially when the wheels go into holes or pass over other uneven places.

I find it desirable to use the straps G and F in order to bring the brace-chains into the proper position. If chains were connected directly to the evener-plate and to the axle, they would be out of place relatively to the point of attachment of the tongue.

What I claim as new, and desire to secure by Letters Patent, is as follows:

1. The coupling-platform A, provided with a pole-socket, *a*, axle-clasp *b*, nut-chamber *d*, and socket or opening for the reach, substantially as and for the purposes set forth.

2. The bolster-clasp D, provided with a nut, *l*, to receive the coupling-pin, substantially as and for the purposes specified.

3. The platform A, having a chamber, *d*, in combination with the nut *g*, cover *h*, coupling-pin *k*, and bolster-clasp D, substantially as specified.

MORGAN ^{his} + BURNS.
mark.

Witnesses:

DANL. F. FAST,
O. W. BOND.