

M. L. COOVER.
 HAY UNLOADER.
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996,216.

Patented June 27, 1911.

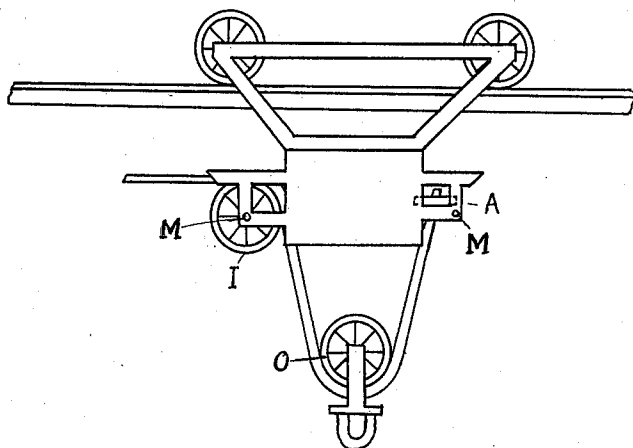


Fig. 1.

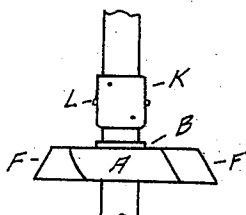


Fig. 3.

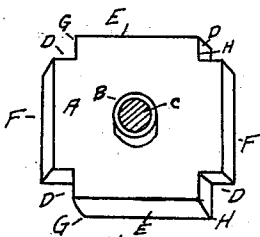


Fig. 2.

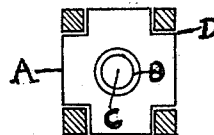


Fig. 4.

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MARTIN L. COOVER, OF NEAR DEGRAFF, OHIO.

HAY-UNLOADER.

996,216.

Specification of Letters Patent. Patented June 27, 1911.

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To all whom it may concern:

Be it known that I, MARTIN L. COOVER, a citizen of the United States, residing near Degraff, in the county of Logan and State of Ohio, have invented a new and useful Improvement in Hay-Unloaders, of which the following is a specification.

My invention relates to certain improvements in hay carriers or unloaders, to prevent the twisting of the rope, above the fork.

Figure 1 is a side view of a hay carrier with my device in position at the right, opposite wheel 1. Fig. 2 a top perspective view of my plate A. Fig. 3 a side view of my device with the rope passing through plate A. Fig. 4, a top view of plate A with the upright parts of the carrier, between which it is placed, shown in section.

In the drawing A is a flat, notched plate having its edge beveled at F, F, H, and rounded at G, and having the offsets or cut away parts D, at each of the four corners, the whole shaped to fit in one end of the ordinary carrier frame, displacing the usual wheel, corresponding to wheel I on the other end of the unloader. A collar B is raised above the surface of plate A, in center, through which there is a hole C, for the passage of the rope. A stop or collar L is firmly secured on the end of the rope above the plate A, and has its bottom surface slightly rounded to enable it to turn freely on the plate, when there is torsion on the rope, and prevent the rope buckling or twisting.

In the form now in use the end of the rope passes over a wheel similar to wheel I on pinion or bolt M, and is tied into a knot to prevent its being pulled back between the housing and the wheel. With the severe strain upon the rope from the loads of hay on the fork below, this knot becomes

so jammed between the housing and the wheel, that it becomes rigidly fixed, and cannot turn to allow the rope to turn freely to accommodate itself to the twistings and turnings of the fork and its supporting carrier and its own tendency to twist. The result is that the rope above the fork frequently becomes twisted half way around, crossing the rope above wheel O, stopping the operation of the unloader until the fork can be lowered, and the rope untwisted.

By my arrangement the rope passing through block A, turns freely in the block, accommodating itself to the various twistings and turnings of the rope, while stop L, is also free to revolve upon the top of the plate, preventing torsion in the rope and allowing wheel O to always hang in proper position, without crossing of the ropes above said wheel.

To attach my device to the ordinary unloader the bolt M which forms the axle of pulley is withdrawn and the wheel removed. Plate A is then placed in the frame in a horizontal position, back of and against the bolt, the offsets D fitting against the corners of the frame, when the tightening of the bolt M secures it firmly in position.

What I claim is:

The combination with the frame of a hay unloader and the hoisting rope, of a plate secured rigidly within said frame, said plate being provided with a central aperture and an upstanding collar around the upper edge of said aperture, and a sleeve having a rounded lower edge secured to the end of said rope, whereby said sleeve can rotate and tilt upon said collar.

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