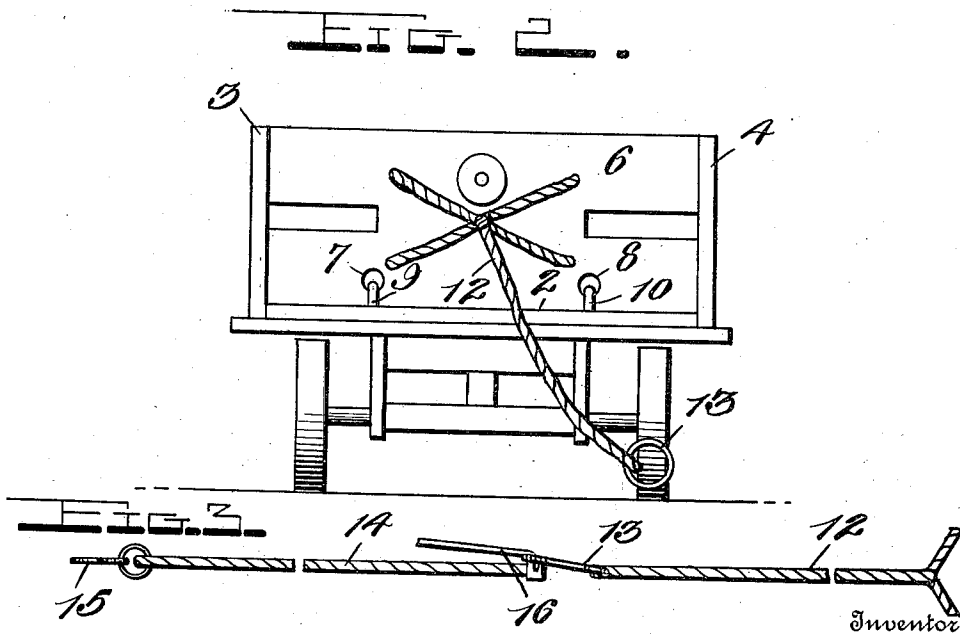
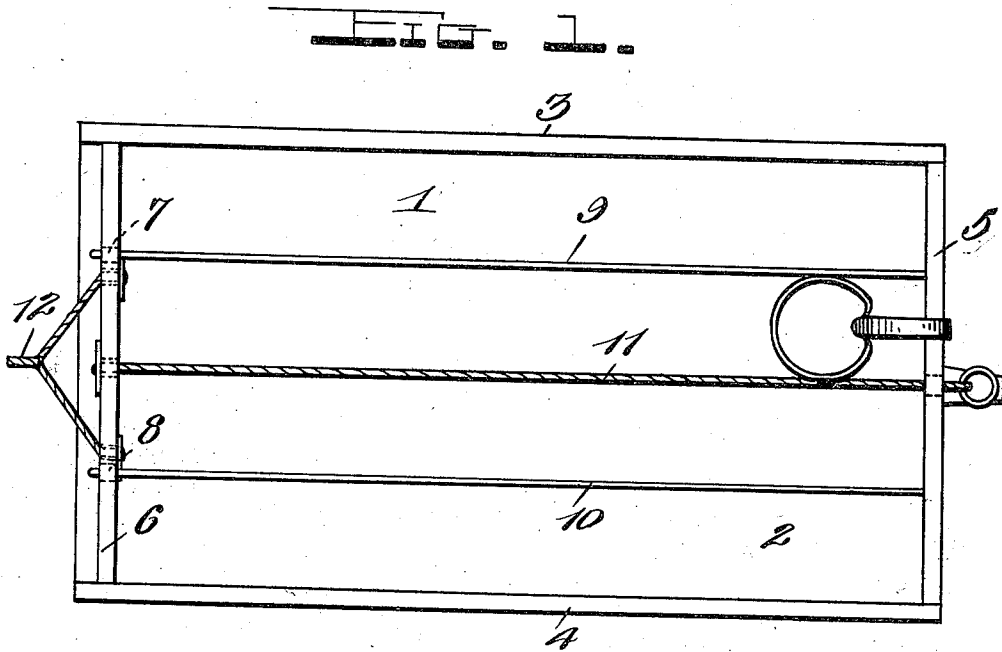


F. M. RICE.
UNLOADING RACK.
APPLICATION FILED JULY 19, 1911.

1,015,074.

Patented Jan. 16, 1912.



Witnesses
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UNITED STATES PATENT OFFICE.

FREDERICK M. RICE, OF RUSSELL, NORTH DAKOTA.

UNLOADING-RACK.

1,015,074.

Specification of Letters Patent.

Patented Jan. 16, 1912.

Application filed July 19, 1911. Serial No. 639,300.

To all whom it may concern:

Be it known that I, FREDERICK M. RICE, a citizen of the United States, residing at Russell, in the county of McHenry and State of North Dakota, have invented certain new and useful Improvements in Unloading-Racks, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to new and useful improvements in devices used for loading and unloading purposes and more particularly to a rack for loading and unloading grain and the like, and my object is to provide a device of this character which may be readily applied to a wagon, whereby grain or other material may be loaded thereon and the same unloaded without the necessity of the driver operating the same.

A further object resides in providing a frame or bed upon which is mounted a slidable end board, and a still further object resides in providing means for the moving of said board into its various positions.

With these and other objects in view, my invention consists in the novel features of construction, combination and arrangement of parts as will be hereinafter referred to and more particularly pointed out in the specification and claims.

In the accompanying drawing forming a part of this application, Figure 1 is a top plan view of the rack. Fig. 2 is a rear end elevation thereof, and, Fig. 3 is a side elevation showing the means for connecting my device with any movable object.

In carrying out my invention, I shall refer to the drawing in which similar reference characters designate corresponding parts throughout the several views and in which 1 indicates the bed of a wagon or truck of any preferred type upon which is mounted my improved rack which comprises a bottom 2 to which is secured the side walls 3 and 4 and the front end wall 5. No permanent rear wall is provided and in its stead, is provided the false or movable end board 6, which end board is of a width substantially equal to the width of the bottom 2 and is slidably mounted thereon. The end board 6 is also provided with a pair of openings 7 and 8 through which extend the guide rods or bars 9 and 10, said bars being secured at one of their ends to the end wall 5, and the other end thereof bent downwardly and secured to the under faces of the bottom

2 adjacent its rear end. These bars allow the end board 6 to be moved from the front end wall 5 to a point immediately adjacent the end of the bottom 2, and in order to provide for the moving of said board back and forth, the cable 11 is provided which is secured to said board about centrally and extends through an opening in the front end wall 5 of the rack, the free end of said cable being in a position to be readily operated by the driver of the wagon.

It must be here stated that this device is particularly adapted for use in connection with threshing machines wherein the rack is loaded with bundles of grain to be carried to said machines. When it is desired to unload the rack, the end board 6, which at the time of loading has been brought to position adjacent the end wall 5, is drawn to its position adjacent the open end of the rack, thereby forcing the contents of said rack therefrom, and in order to provide for the drawing of this end board to the end of the rack, a second cable 12 is provided, one end of which is also secured to the outer face of said board and the opposite end provided with a ring or the like 13. Of course, it will be understood that this cable 12 may be drawn by anyone nearby to unload the rack, but such would require almost an over exertion on the part of the person trying to accomplish this result and at the same time, place him among the unloaded grain to be covered with dust, etc. To avoid this, I, therefore, provide an additional cable 14, one end of which is provided with a hook or the like 15 which is adapted to be engaged with the wheel or any other desired portion of the traction engine, used on the field, and the other end of the additional cable 14 is provided with a pivoted lever or hook 16 which is adapted to be engaged with the ring 13 on the end of the cable 12. Thus, when the driver of the load brings the same in position adjacent the threshing machine, the hook 15 of the cable 14 is engaged by one of the field operators with a portion of the traction engine and the pivoted hook 16 engaged with the ring of the cable 12, and when the wagon is driven forwardly, it will be seen that the end board 6 will be drawn therewith to dump the contents of the rack therefrom. While the wagon is being driven forwardly to draw the end board 6 to the rear end position of the rack, the field operator will hold the pivoted hook 16

in its effective position, and when the board 6 has reached the limit of its path, said operator will release his hold upon the hook, thereby allowing the same to be withdrawn from the ring 13 by the moving wagon. This operation, it will be seen, may be accomplished without the driver leaving his seat and when the rack has been unloaded, said driver may draw upon the cable 11 to withdraw the end board 6 to its forward end position in the rack, whereby said rack may be again loaded.

Although I have stated that this device is particularly adapted for use in connection with threshing machines, it will be readily understood that the device may be used for loading and unloading any materials whatsoever, but in every case, the advantages are the same.

With the use of such a device as this, it will be seen that the loading and unloading of any articles are facilitated with the avoidance of dust and the like and with the economy of time and labor. Furthermore, it will be seen that the device is of such simple construction as to be readily and cheaply manufactured and one which is effective and useful in operation.

What I claim is:—

1. In a rack of the class described, the combination with a frame comprising a bottom, side walls and a front end wall; of a pair of guide rods spaced above the bottom of said rack and extending longitudinally thereof from the front end walls to a point adjacent the rear end of said bottom, a movable end board through which said guide rods extend, and means operable from either end of the frame to draw said board to its operative and inoperative positions.

2. In a rack of the class described, the combination with a frame comprising a bottom, side walls and a front end wall secured to said bottom; of a pair of guide rods extending longitudinally of said bottom and having one of the ends thereof mounted in said front end wall and the other end mounted in said bottom immediately adjacent the rear end thereof, a movable end board through which said guide rods extend, a flexible connection secured to said end board and extending through the front end wall to draw said board to its ineffective position, and an additional flexible connection whereby said end board may be drawn to its effective position.

3. In a rack of the class described, the combination with a frame comprising a bottom, side walls and a front end wall secured to said bottom; of a pair of guide rods extending longitudinally of said bottom and having the forward ends thereof mounted in said end wall, the rear end of said guide rods being mounted in said bottom adjacent the rear end thereof, a movable end board through which said rods extend, a flexible connection secured to the board for drawing the same to the forward end of the rack, an additional flexible connection secured to the board, and means to engage the last referred to connection with a moving object, whereby said board may be drawn to the rear end of said rack.

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

FRED. M. RICE.

Witnesses:

G. E. METERLY,

G. F. PETERSON.