MATTESON & WILLIAMSON.

Feeding Grain Separators.

No. 86,564. Patented Feb. 2, 1869.

Fig: 1.

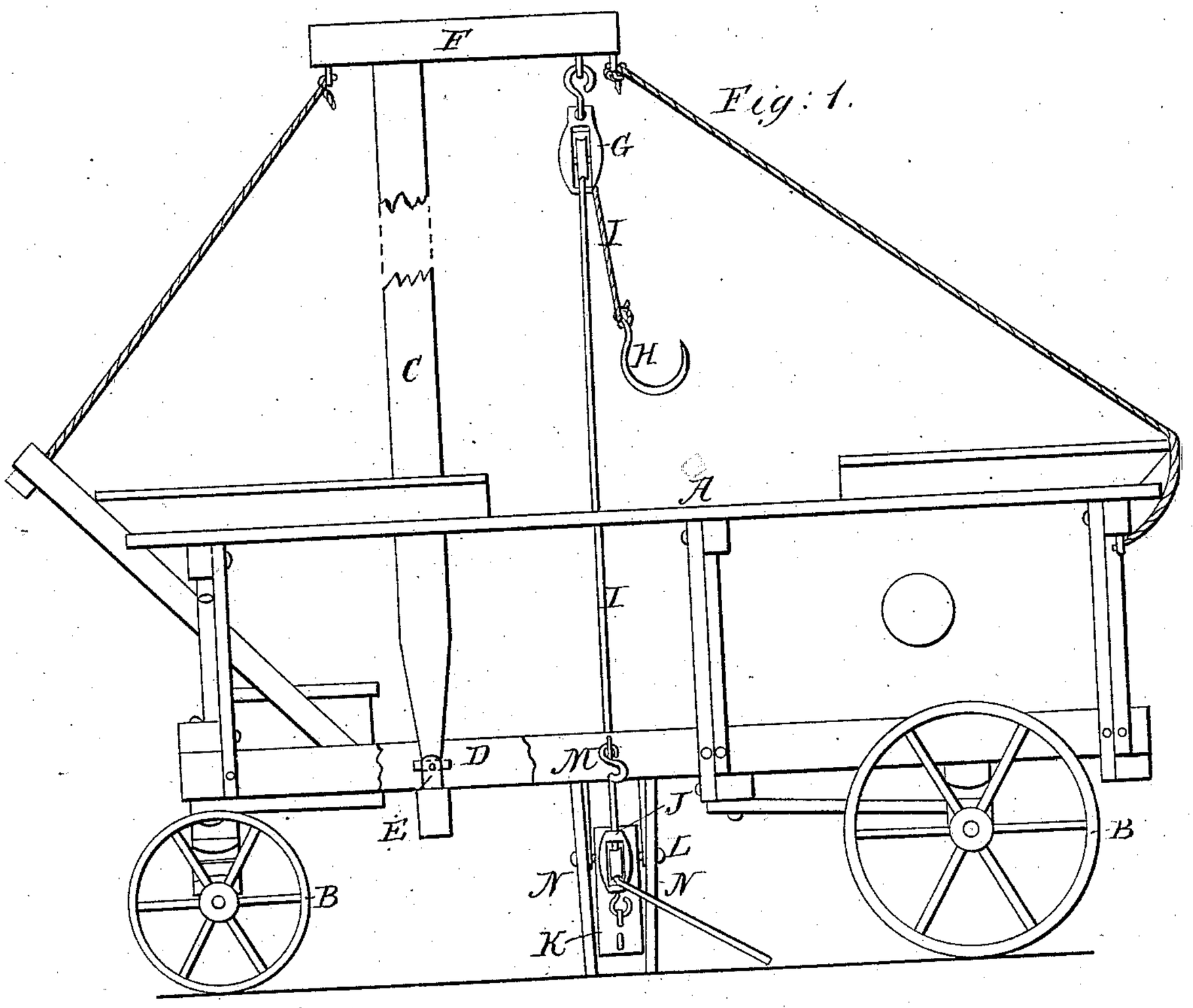
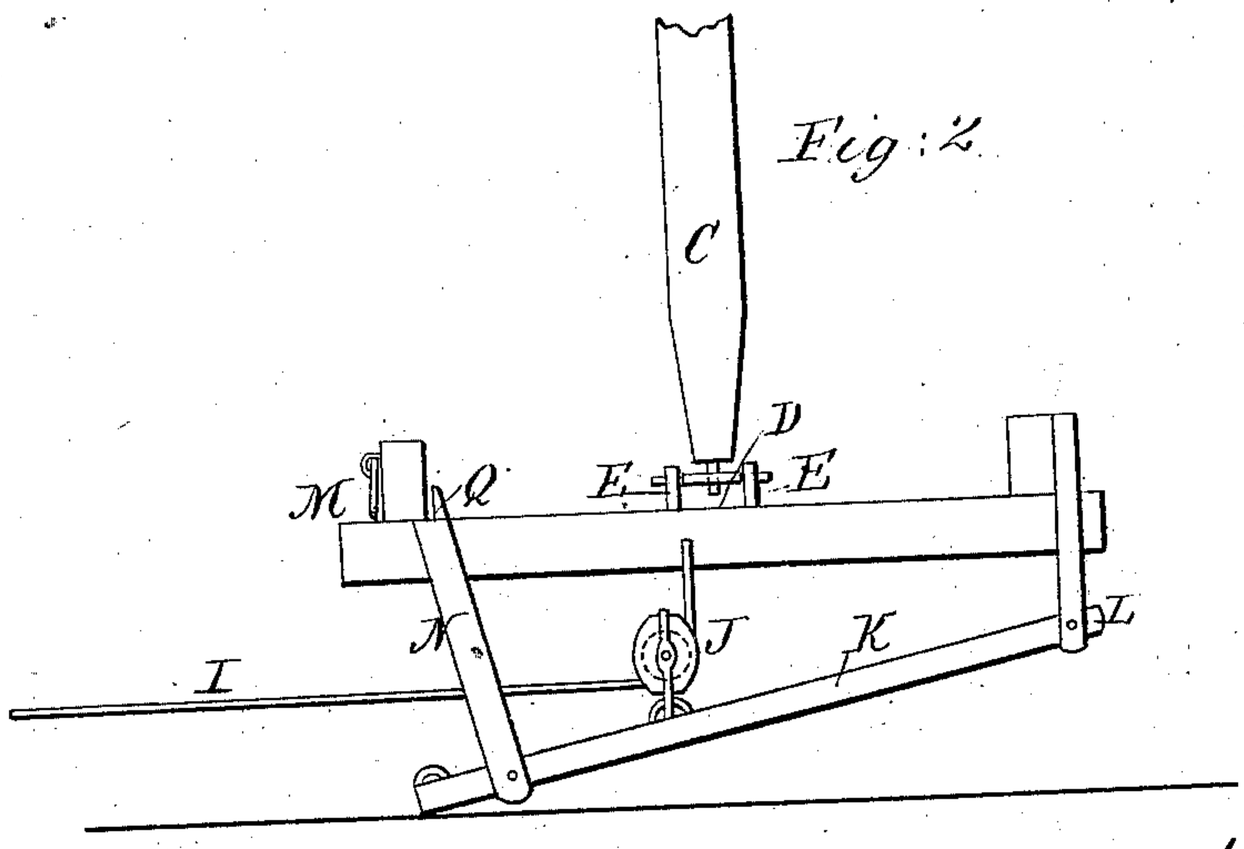


Fig: 2.



Witnesses;

Geo. A. Strong
J. L. Boone

Inventors.

Don Carlos Matteson
Truman Paine Williamson
by Dewey & Co attys for Inventors

United States Patent Office.

DON CARLOS MATTESON AND TRUMAN PANE WILLIAMSON, OF STOCKTON, CALIFORNIA.

Letters Patent No. 86,564, *dated February* 2, 1869.

IMPROVEMENT IN ELEVATOR AND TABLE FOR FEEDING GRAIN-SEPARATORS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, DON CARLOS MATTESON and TRUMAN PANE WILLIAMSON, of Stockton, county of San Joaquin, State of California, have invented an Improved Elevator and Table for Feeding Grain-Separators; and we do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains, to make and use our said invention or improvements without further invention or experiment.

The object of our invention is to provide an improved movable elevator and table for feeding the unthreshed straw from the stack to separators, and by which we are enabled to dispense with much of the manual labor heretofore necessary, while the whole machine is so constructed that it can be easily moved from stack to stack, as required.

To accomplish this, a table is constructed of sufficient size to hold the necessary quantity of straw to feed the thresher or separator, and is mounted upon wheels, having the pole and the usual devices for attaching horses to move it.

A derrick, of considerable height, rises from the table, its foot being pivoted on a movable bar beneath the table.

The elevating-fork is attached to a rope, passing over the pulley at the top of the derrick, and thence to another, beneath the table, so that horse-power may be used to elevate the straw.

In order to place the latter pulley low enough, it is fastened to a bar, which is hinged at one end to one of the side sills of the machine. The other end is dropped on the ground, and two adjustable braces, passing from it to the side sill, keep it down when in use.

Whenever it is necessary to remove to another place, the braces are disconnected, and the cross-bar drawn up out of the way.

To more fully illustrate my invention, reference is had to the accompanying drawings, forming a part of this specification, of which—

Figure 1 is a side elevation of our machine, showing the table and derrick.

Figure 2 is an end sectional view, showing the cross-bar and braces.

Similar letters in each of the drawings refer to like parts.

A is the table, made long and wide enough to receive the necessary amount of straw for the separator, and mounted upon the wheels B B, so as to be of a convenient height for the work.

The upright post C passes through the table, and steps, at the bottom, in the cross-bar D.

This bar turns in the boxes or eye-bolts E E at each end, so that the post C is allowed considerable motion.

The post has an arm, F, at the top, to which the pulley G is attached; but we do not wish to confine ourselves to any particular form of derrick.

The fork H can be of any style most desirable, and is attached to the rope I.

This rope passes over the pulley G, and then down beside the upright post, and through the pulley J, by which a change of motion is obtained. Horse or other power may then be used at the end of the rope I, for the purpose of raising the straw.

In order to place the pulley J low enough for the power to be applied, it is attached to the bar K.

This bar is hinged at L, so that the opposite end may be raised or lowered.

When movng from place to place, it is drawn up and retained by a hook at M, but when in position it is let down, so that the end rests on the ground.

Two braces, N N, are attached near the swing-end of the bar K, and are notched at their upper ends O, so as to rest and hold firmly against the side sill of the machine, thus keeping the bar K and pulley J down when at work.

The operation is as follows:

The separator and the table being set near the stack to be threshed, the fork is lowered, and takes its load from the stack, whence it is elevated and dropped upon the table A. From this place the feeder supplies it to the machine.

By this device, the labor of ten men is dispensed with, while a regular supply of unthreshed straw is brought to the table.

No time is wasted in setting the table, as it can be drawn to its position, the bar K lowered and braced, when it is ready for work.

Having thus described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

1. The cross-bar D and the boxes or eye-bolts E E, substantially as and for the purpose described.

2 The hinged drop-bar K and the holding-braces N N, constructed and operated substantially as and for the purposes herein described.

In witness whereof, we have hereunto set our hands and seals.

DON CARLOS MATTESON. [L. S.]
TRUMAN PANE WILLIAMSON. [L. S.]

Witnesses:

W. M. SMITH,
JNO. H. WEBSTER.