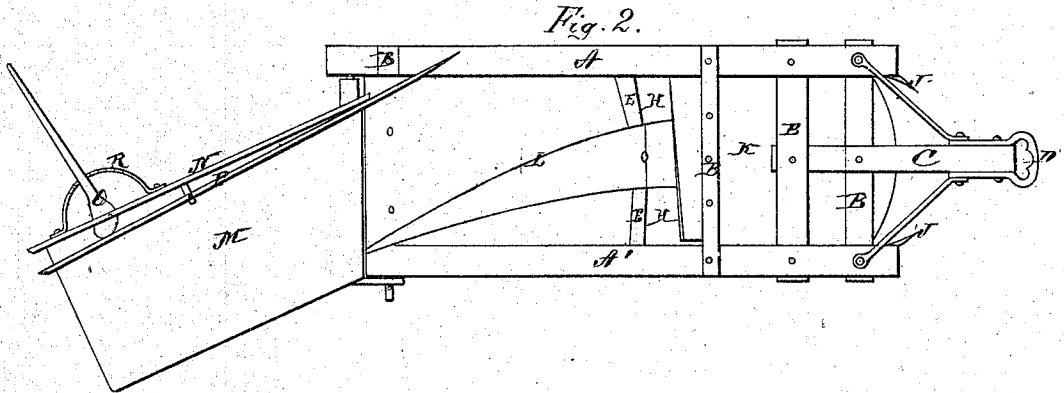
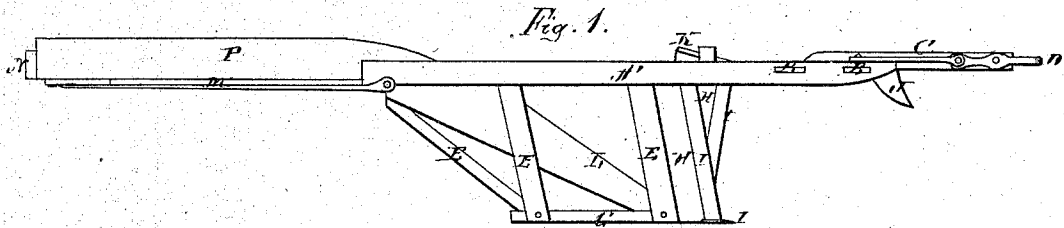


W. STACY.
Ditching Plow.

No. 105,858.

Patented July 26, 1870.



Witnesses:
Chas. Jacobs
J. V. White

Inventor:
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Per
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United States Patent Office.

WILLIAM STACY, OF HARDIN COUNTY, IOWA.

Letters Patent No. 105,858, dated July 26, 1870.

IMPROVEMENT IN MACHINE FOR DITCHING AND HEDGING.

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

To all whom it may concern :

Be it known that I, WILLIAM STACY, of Hardin county, Iowa, have invented a new and improved Machine for Ditching and Hedging; and I do hereby declare the following to be a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention consists in the construction and arrangement of an improved ditching-machine, as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a side elevation, and

Figure 2 a plan view of my machine.

A A' represent two parallel beams, placed a suitable distance apart, and connected by cross-bars B B, to the front ones of which the tongue C is secured, said tongue being at its front or outer end provided with a clevis, D, for attaching the beam in any desired manner.

To the side beams A A' and the rear cross-bar are attached braces E E, which are inclined downward and inward, and are attached at their lower ends to the bottom piece G, which runs parallel with, below, and at equal distance from the two side beams.

To the front braces E E are attached metal side pieces H H, extending from the inner sides of the side beams A A' down to the bottom piece G.

The front edges of these metal side pieces, as well as the front end of the bottom piece G, are all provided with cutters, I I, for cutting the earth, the sod having been previously cut by the knives J J, secured to the front ends of the side beams A A', said sod-cutters being inclined inward, downward and forward, as shown in the drawings.

Attached to the front cross-bars B B, and under the same, is a curved stationary apron, K, extending back beyond the side cutters I I, as shown in fig. 1, to prevent the front end of the machine from sinking into the ground.

From the rear edges of the front braces E E to the rear edge ends of the side beams extends the spirally-formed scoop L, constructed as shown in fig. 2, so as to carry the dirt to one side, that is, to the rear end of the side beam A'.

At the rear ends of the side beams A A' is hinged a conveyer, M, in such a manner that it can be put on and taken off at pleasure.

This conveyer consists of a flat bed, inclined as shown in fig. 2, so as to carry the dirt to one side of the machine.

Along the opposite side of the conveyer is a flange, N, slotted near its outer end, in which slot is pivoted a cam-lever, O.

This cam bears against a board, P, pivoted near the inner end of the flange N, its front end extending over the rear end of the scoop L and beam A'.

This movable board P is for the purpose of assisting in shoving the dirt of the conveyer, by means of the cam-lever, and to allow the dirt to be carried more or less toward the rear, as may be desired.

The cam-lever O is held by means of a projection on its under side engaging in a circular rack, R, in any position desired.

In the bottom G is a hole to admit air below, for the purpose of preventing or lessening suction.

Having thus fully described my invention,

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

1. The conveyer M, provided with flange N, cam-lever O, rack R, and pivoted board P, all constructed and arranged to operate substantially as and for the purposes herein set forth.

2. The arrangement of frame A B C, bottom G, cutters I I and J J, apron K, scoop L, conveyer M, and cam-lever O, substantially as herein set forth.

WILLIAM STACY.

Witnesses:

O. W. GARRISON,
J. F. SIMONDS.