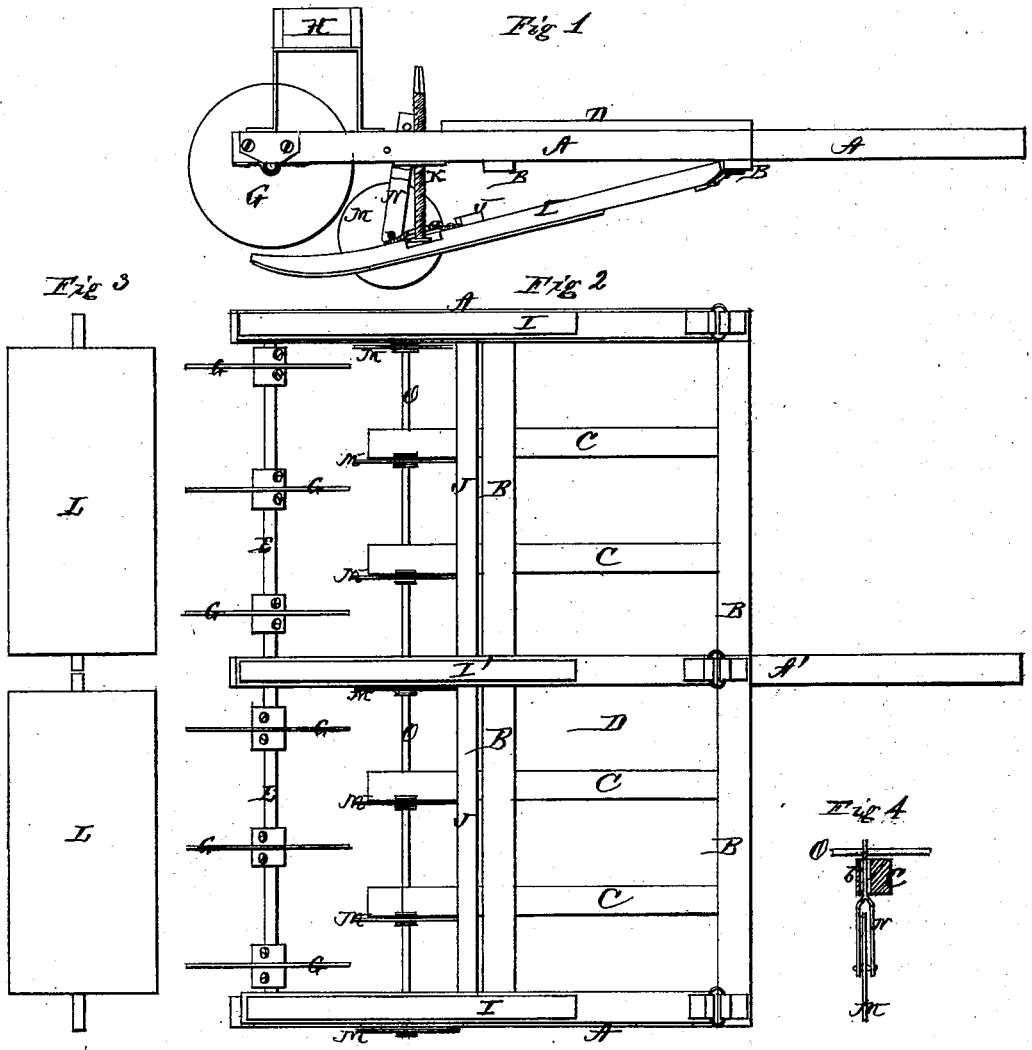
W. LESLIE.

COMBINED STALK AND WEED CUTTER AND LAND ROLLER.

No. 108,712. Patented Oct. 25, 1870.



Witnesses.

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WILLIAM LESLIE, OF FORT MADISON, IOWA.

Letters Patent No. 108,712, dated October 25, 1870; antedated October 15, 1870.

IMPROVEMENT IN COMBINED STALK AND WEED-CUTTERS AND LAND-ROLLERS.

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 LESLIE, of Fort Madison, in the county of Lee and in the State of Iowa, have invented certain new and useful Improvements in Combined Stalk and Weed-Cutter and Land-Roller; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a "stalk and weed-cutter and land-roller combined," which can also be used as a corn-plow and marker.

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 drawing, in which—

Figure 1 is a side elevation, and

Figure 2, a bottom view of my machine;

Figure 3 is a plan view of the rollers, and

Figure 4 is a front view of one of the plow-colters, showing the manner of attaching the same.

A A and A′ represent three beams or bars, placed a suitable and equal distance apart, and connected by means of cross-bars B B, the center beam A′ extending beyond the other two, forming the tongue, to which the team is attached; or the front end of said center-bar may have a hole for the purpose of inserting the king-bolt of the running-gear of a wagon, if so desired.

Between the center-beam A′ and each of the side-beams A, are placed smaller beams C C, two in each space, at equal distances, and running parallel with the beams A and A′.

The bars C C are also secured to the cross-bars B B, and their front ends are even with the front ends of the beams A A′, while their rear ends do not extend as far as the rear ends of said beams.

Upon the upper side of the beams A A′ and bars C C is laid a platform, D.

At the rear ends of the beams A A and A′, on the under side, are placed suitable journal-boxes, in which are placed two shafts, E E, the inner ends of said shafts meeting in the journal-box, on the center-beam A′.

On the shafts E E, at suitable distances apart, is placed a series of circular steel plates G G, having sharp edges.

These plates are keyed on the shafts, or secured by flanges and set-screws or other suitable fastenings.

The circular plates G G form cutters for cutting stalks and weeds, by drawing the machine over the ground, and if the machine or frame is not heavy enough to exert the necessary pressure, stones or weights are placed in a box, H, which is supported above the cutters, on the rear ends of the beams A A and A′.

This box also answers for a seat for the driver, by placing a board or cushion in the center.

At the front ends of the beams A A and A′, on the under side, are hinged runners I I I′, which are connected by means of the cross-bar J.

The side runners I I have each, on their upper side, a recess, over which is placed a plate, *a*, and in this recess is placed the head of screw-bolt K, the bolt passing up through the said plate and screwed through the side-beams A A.

The upper ends of the screw-rods K K may be provided with cranks for turning the same, so as to raise and lower the runners at pleasure.

When the machine is in operation, these runners are raised up so as to allow the cutters G G to operate as deep as may be necessary; but when moving from one place to another, the runners are lowered, so that the machine will rest on the same and be dragged on them along the ground.

The shafts E E, with their cutters, may be readily removed, and a roller, L, placed on each side of the center-beam A′, between said beam and the side-beams.

Upon the side of the bars C C, at their rear ends, are cut recesses, which are covered with metal plates *b*. And upon the beams A and A′ are similar recesses and plates, all being on the same line, for attaching plow-colters M M.

These colters are pivoted each in a forked bar, N, the upper end of which is passed up through the recess above mentioned, and a rod, O, is passed through holes in all of them above the beams, which secures them firmly in place.

The runners I I and I′ being the proper distance apart, can be used to mark the rows for corn ground.

Having thus fully described my invention,

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

1. The frame, formed of the side-beams A A, center-beam A′, bars C C, cross-bars B B, and platform D, all constructed and arranged substantially as shown and described.

2. The runners I I and I′, connected by the cross-bar J, in combination with the screw-rods K K, substantially as and for the purposes herein set forth.

3. The arrangement, with the frame, constructed as herein described, and provided with the runners I I and I′, bar J, and screw-rods K K, rod O, and colters M M, all constructed to operate substantially as set forth.

4. The arrangement, upon the rear part of the frame as constructed, of the two shafts E E, provided with circular cutters G G, and box H, said shafts being removable, as set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 27th day of January, 1870.

WM. LESLIE.

Witnesses:

W. D. TAYLOR,

J. M. CASEY.