

E. A. UEHLING.  
Land Roller.

No. 96,513.

Patented Nov. 2, 1869.

Fig. 1.

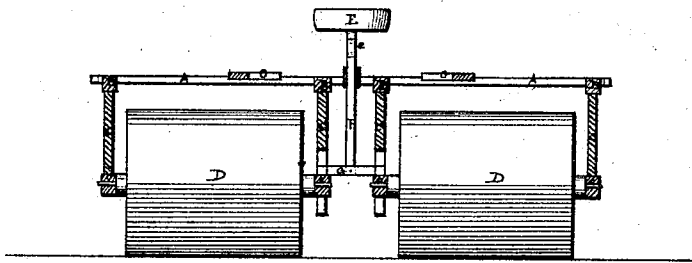


Fig. 3.

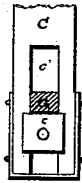


Fig. 2.

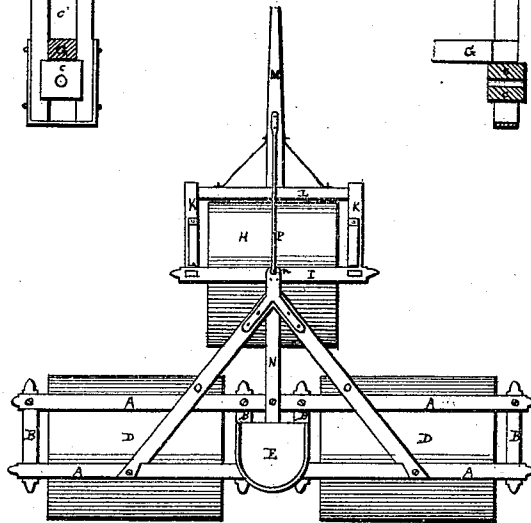
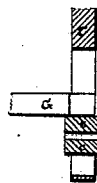


Fig. 4.



Witnesses.

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*Paul J. May*

Inventor.

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*attys.*

# United States Patent Office.

EDWARD A. UEHLING, OF RICHWOOD, WISCONSIN.

Letters Patent No. 96,513, dated November 2, 1869.

## IMPROVEMENT IN LAND-ROLLER.

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, EDWARD A. UEHLING, of Richwood, in the county of Dodge, and in the State of Wisconsin, have invented certain new and useful Improvements in Land-Rollers; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, making a part of this specification, in which—

Figure 1 is a rear elevation of my device, with the frame removed, vertically on a line with the centre of the back rollers;

Figure 2 is a plan view of the same; and

Figures 3 and 4 are an enlarged side elevation and a vertical central section, respectively, of that portion of the frame within which the inner ends of the rear rollers are journaled.

Letters of like name and kind refer to like parts in each of the figures.

My invention belongs to a class of devices termed land-rollers; and

It consists in the peculiar construction of the frame, and the arrangement therein of the rollers, together with the method of attaching said rollers to said frame, by means of which great lateral flexibility of the same is obtained, so as to enable them to conform readily to the inequalities of the ground.

In the annexed drawing—

A and A represent two horizontal parallel strips of wood, secured together at their ends and centre by means of the cross-bars B and B.

Projecting downward from the centre, lengthwise of each cross-bar B, is a standard, C, containing at its lower end a box, *c*, in which is pivoted one journal of a roller, D.

The boxes within the outer standards are firmly secured in place, while those contained within the inner standards are placed in a vertical slot, *c*, corresponding to their width, so as to allow said boxes to be raised or lowered above or below those upon the outside.

By this arrangement, it will be seen that the rollers D D are allowed to conform to the undulations of the ground, but that the weight of the frame is supported by or upon the outer journals.

In order to counterbalance the weight of said frame, and produce an equal pressure upon either end of the rollers, the driver's seat E is secured, by means of an S-shaped spring, *e*, upon one end of a standard, F, which, passing downward between suitable guides, is pivoted, at its lower end, within an equalizer-bar, G, resting upon the upper side of the boxes *c* *c*, by which means the weight of the driver

is made available in accomplishing the desired result.

Situated directly in front of the rollers D D, is a third roller, H, which is journaled within suitable boxes, secured in vertical standards, connected together at their upper ends by a strip, I.

Secured to and projecting forward from said standards, are two cross-bars K K, which are connected together by means of a strip, L, tenoned in their front ends.

The pole M is secured to the strip L, and the whole connected to the rear frame by means of a bar, N, which being attached to the strips A and A, at a right angle therewith, and strengthened by two angular braces O O, is pivoted at its front end upon a bolt, *n*, passing downward through the rear end of a brace, P, secured at its forward end to the pole, and through said bolt *n* into the strip I.

The pole, standards, &c., being strengthened by means of suitable angular-iron braces, the machine is complete, and its operation is as follows:

The driver being in place upon the seat E, and the machine driven forward, the inner ends of the rear rollers will rise or fall, as may be required to enable them to conform to the inequalities or undulations of the ground, by which means each portion of the surface travelled over by said rollers will be thoroughly and evenly pressed, while the space between their inner ends will be rolled by the forward roller H, which, being loosely pivoted to the rear frame, is also enabled to conform to the surface of the ground.

The driver's seat being elevated so much above the ground, the annoyance heretofore experienced from dust, while rolling a field, is entirely avoided, and the operation rendered as pleasant as any other connected with the preparation for or planting of grain.

In addition to the advantages hereinbefore described, the machine is completely under control, and can be turned with more ease, and in a much smaller space, than an ordinary wagon; and from the peculiar flexibility of the rollers, with reference to the frame, and their independent action, no grain will be dragged out by turning.

Having thus fully set forth the nature and merits of my invention,

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

1. The devices employed for supporting the weight of the driver, and causing it to bear equally upon the inner ends, of the rollers D and D, consisting of the standard F, supporting the seat E, and pivoted at its lower end to the equalizer-bar G, rest-

ing upon the boxes *c' c'*, substantially as herein shown and described.

2. Also, the within-described land-roller, containing the rollers D D and H, journalled within frames composed of the strips A and A, cross-bars B and B, standards C, strip I, cross-bars K and K, strip L, bar N, braces O and O, and brace P, and in combination therewith, the seat E, standard F, and equalizer-

bar G, all constructed and arranged substantially as and for the purpose specified.

In testimony that I claim the foregoing, I have hereunto set my hand, this 14th day of August, 1869.

Witnesses:                   EDWARD A. UEHLING.  
                                  J. C. SMITH,  
                                  H. A. WEDEMEYER.