M. ROBERTS.

Wheel Plow.

No. 53,749. Patented Apr. 3, 1866.

Fig. 3.

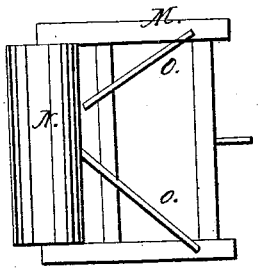


Fig. 2.

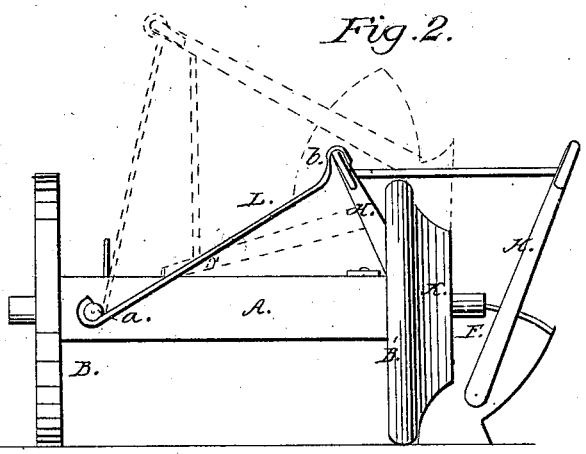
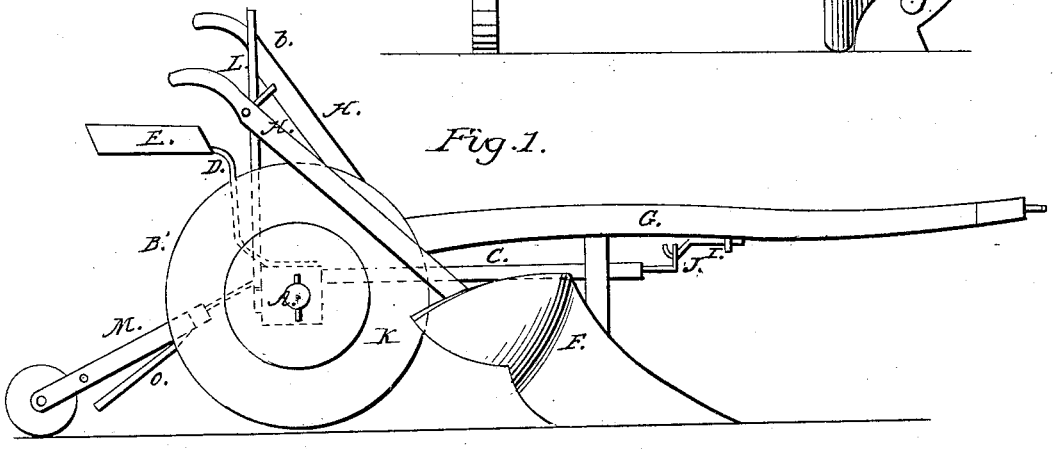


Fig. 1.



Witnesses:

J. W. Young Jr.

Wm. Brewer

Inventor:

Milton Roberts

Per Munn & Co.

Attorneys.

UNITED STATES PATENT OFFICE.

MILTON ROBERTS, OF ST. PAUL, ASSIGNOR TO HIMSELF AND NATHAN H. ROBERTS, OF RICHFIELD, MINNESOTA.

IMPROVEMENT IN ATTACHMENTS FOR PLOWS.

Specification forming part of Letters Patent No. **53,749**, dated April 3, 1866.

To all whom it may concern:

Be it known that I, MILTON ROBERTS, of St. Paul, in the county of Ramsey and State of Minnesota, have invented a new and Improved Riding Attachment for Plows; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of my invention; Fig. 2, a rear view of the same; Fig. 3 a detached inverted plan of a roller attachment pertaining thereto.

Similar letters of reference indicate corresponding parts.

This invention relates to a new and improved riding or sulky attachment for common or ordinary plows, whereby the latter may be operated with the greatest facility and the plowman enabled to either ride or walk, as he may desire, the invention at the same time admitting of the plow, by a very simple manipulation, being readily conveyed from place to place.

The invention also relates to an improved roller and weed gathering or collecting attachment, whereby the weeds are rolled down and prevented from clogging up and interfering with the operation of the colter, and are covered by the furrow-slice turned over by the plow.

The invention further relates to a novel construction of one of the wheels of the device, whereby said wheel is rendered subservient in turning the furrow-slice, and admitting of the plow being constructed, rather more than hitherto, with a view to an easy draft.

A represents an axle, and B B′ wheels fitted thereon so as to turn freely. This axle has a short tongue, C, projecting from its front, at the right of its center, and to the axle, at the rear of the tongue C, a support, D, is attached, with the driver's seat E on its upper end.

F is a plow of the ordinary turn-furrow form. G is the beam thereof, and H H the handles. These parts may be of the usual construction, and therefore do not require a minute description.

To the under side of the plow-beam G there is secured an adjustable hook, I, on which an eye, J, at the outer end of the tongue C is fitted.

The wheel B′ is between the handles H H of the plow, and the ends of the handles are within convenient reach of the driver on seat E, and also within reach of him if walking behind the device. This wheel B′ runs in the furrow, and its outer side is formed with a concave concentric flange, K, (shown clearly in Fig. 2,) which flange assists in turning the furrow-slice, and admits of the mold-board of plow F being made rather less flaring or concave than hitherto, and consequently causes the draft to be materially diminished. The ordinary mold-boards are necessarily made quite flaring, in order to turn the furrow-slice, and this greatly increases the draft.

The plow, in being attached to the device, (riding attachment,) as shown, is nearly or quite self-supporting; but it may be steadied in its movement by a rod, L, attached at one end by a pivot, *a*, to the rear side of the axle A, and formed with a hook, *b*, at its outer end, to catch over the left handle H of the plows, as shown in black in Figs. 1 and 2.

In drawing the plow from place to place it is turned leftwise over upon the tongue C, and secured thereon by placing the hook *b* of the rod L over the right handle H, as shown in red in Fig. 2.

Thus by this simple arrangement the plow may be operated with the greatest facility and with but comparatively little labor, and if the plow inclines a little, either to the right or left, the difficulty may be obviated by adjusting the hook I either to the right or left of beam G.

The weight of the driver on seat E will about balance the device, and the wheels B B′ are small in diameter, sufficiently so to admit of the driver getting readily off and upon seat E.

M is a frame, of rectangular or other proper form, and having a roller, N, fitted in its rear part. This frame M is attached to the axle A, at its rear side, at such a point that the roller N will work over the ground adjoining the furrow made by plow F.

To the under side of the frame M there are attached two oblique rods, O O, (see Fig. 3,) which serve to gather the weeds and trash toward the center of the roller, which bends or crushes them down to the ground, parallel with the furrow and out of the way of the colter

of the plow when the latter makes the succeeding furrow, and the weeds and trash, in consequence of being thus bent down, are prevented from interfering with the proper turning of the furrow, the furrow-slice completely covering them.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The attaching of the plow to the axle and wheels, in the manner substantially as and for the purpose herein set forth.

2. The rod J, pivoted to the axle A, and provided with a hook, I, at its outer end, in combination with the plow and the wheels and axle, substantially as and for the purpose specified.

3. The wheel B, provided with the concave flange K, in combination with the plow F, substantially as and for the purpose set forth.

4. The rollers N, placed in the frame M, having the rods O O attached, in combination with the plow and the wheels and axle, substantially as and for the purpose specified.

MILTON ROBERTS.

Witnesses:
F. BEEBE,
N. H. ROBERTS,
J. C. HALL.