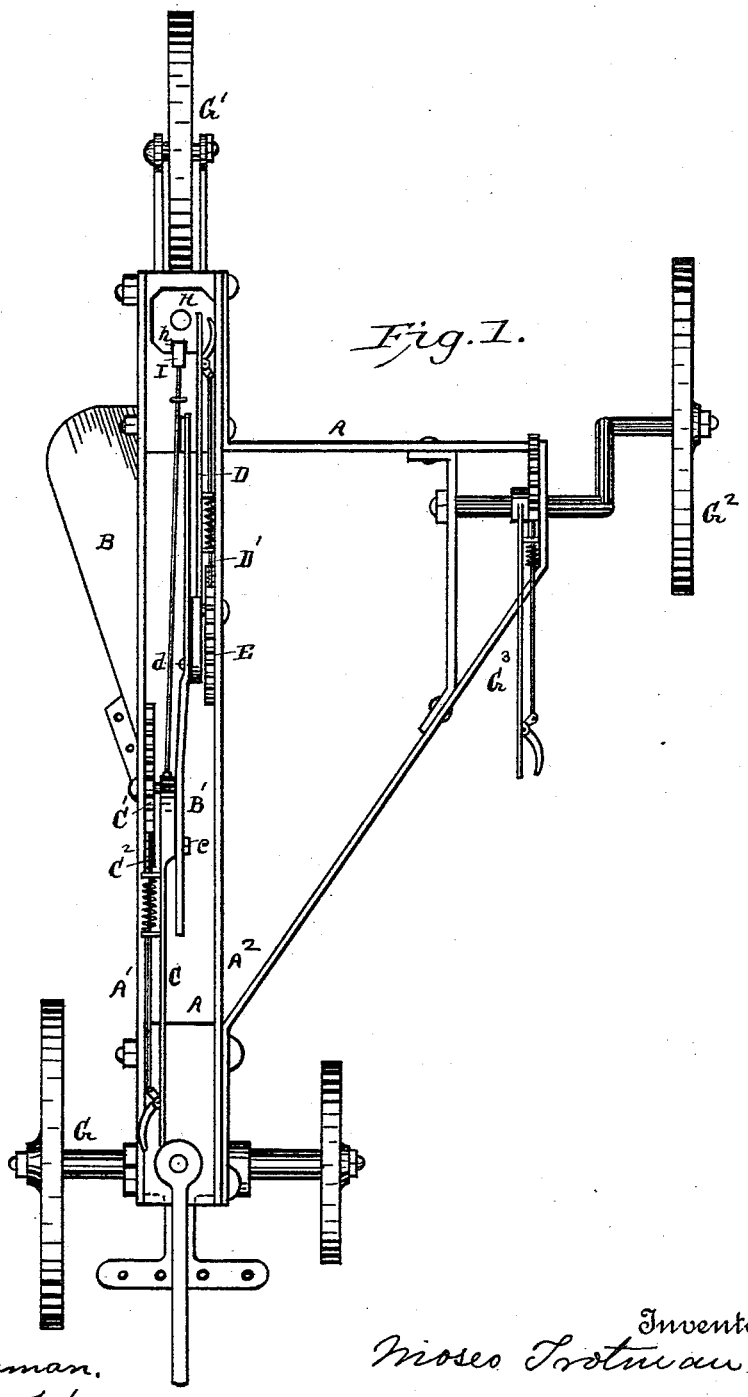
(No Model.) 2 Sheets—Sheet 1.

M. TROTMAN.

WHEEL PLOW.

No. 457,625. Patented Aug. 11, 1891.

Fig. 1.



Witnesses
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N. D. Wright.

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By his Attorney
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(No Model.) 2 Sheets—Sheet 2.

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Fig. 2

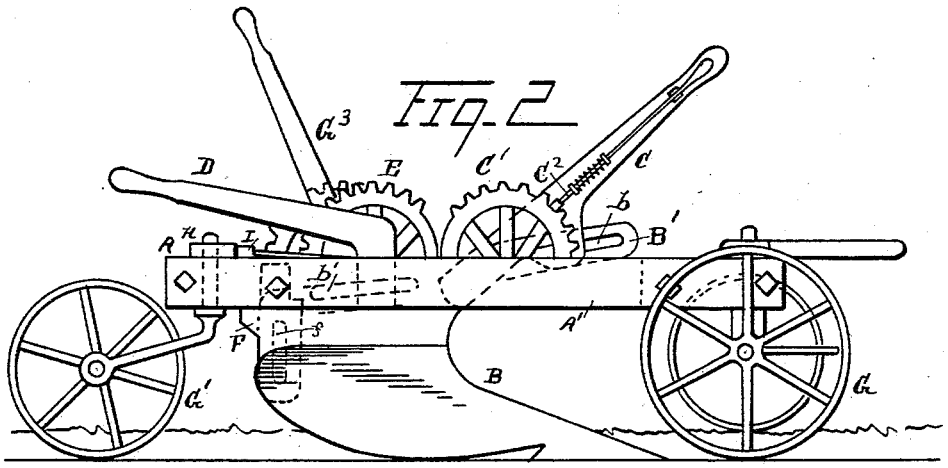
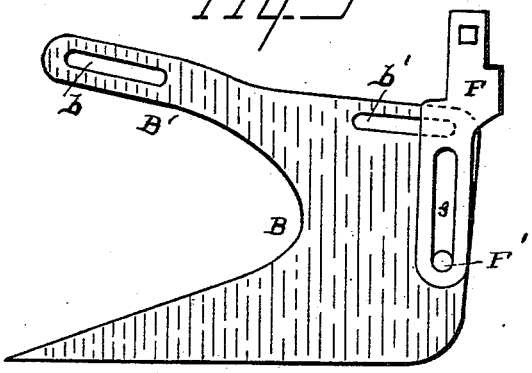


Fig. 3



Witnesses
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By his Attorney
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UNITED STATES PATENT OFFICE.

MOSES TROTMAN, OF DETROIT, MICHIGAN.

WHEEL-PLOW.

SPECIFICATION forming part of Letters Patent No. 457,625, dated August 11, 1891.

Application filed September 8, 1890. Serial No. 364,248. (No model.)

To all whom it may concern:

Be it known that I, MOSES TROTMAN, a subject of the Queen of Great Britain, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Wheel-Plows; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to certain new and useful improvements in wheel-plows, and has for its objects simple and efficient means for elevating and depressing the plow-point independent of the heel; also for independently elevating and depressing the heel of the plow, while at the same time the entire plow may be elevated or depressed, as may be required.

My invention also contemplates the general construction, arrangement, and combination of parts, as hereinafter described and claimed, and illustrated in the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a plan view illustrating my invention. Fig. 2 is a side elevation, and Fig. 3 is a separate view of the plow and beam in side elevation with the bracket F connected therewith.

I carry out my invention as follows:

A represents any suitable frame, the same being preferably provided with bars A′ A^2 to support the plow between them.

B is the plow, and B′ its beam, constructed with elongated slots *b* and *b′*. I prefer to construct the beam of suitable cast metal, the slots being cast therein, forming an economical construction.

C is a lever fulcrumed on the bar A′ and engaged in the slot *b* of the beam in any suitable manner, as by a roller-arm *c* engaging the slot. Adjacent to said lever is a rack-bar C′, the lever being provided with a suitable pawl C^2 to hold the lever in any desired position.

D is a corresponding lever, fulcrumed, preferably, to the bar A^2 and engaged with the slot *b′* of the beam. This lever is also preferably provided with a roller-arm *d* to engage said slot.

E is an adjacent rack-bar, the lever D also being provided with a suitable pawl D′, whereby it may be held in desired position.

F is a bracket constructed with an elongated slot *f* and engaged with the frame A. The rear end of the beam is engaged with said slot in any suitable manner, as by a roller-arm F′.

The operation of these features now explained is evident. When it is desired to lift the plow-point so that the plow will run out of the ground, the lever C is thrown in the proper direction, thereby elevating the point, as desired, the same being held in position by the pawl and rack-bar C′ C^2. When it is desired to elevate the heel of the plow, the lever D is thrown in the proper direction, the rear of the beam sliding upward in the slot of the bracket F. The heel of the plow is held in position by the pawl and rack-bar D′ E. When the whole plow is desired to be raised, both said levers are thrown in the proper direction. So elevated, the entire plow may be held suspended by means of the pawls and rack-bars of said levers. This provision to elevate and suspend the whole plow is evidently a great convenience and utility in turning the corners of the furrows, and especially in driving the plow across fields and along highways in transporting it from point to point, as this mechanism enables the whole plow to be lifted clear from the ground. When it is desired to lower the entire plow, as after the turning of a corner, both levers are thrown in a direction the reverse of that previously described. The plow may thus be leveled into position; or when it is needful to enter the plow-point into the soil to make the plow cut deep enough the lever C alone is thrown in the required direction, and after the point has entered the ground the proper depth the heel may then be lowered. In this manner the entire plow is under perfect control. The point may be turned up or down independently, the heel may be lifted or lowered independently, and the whole plow may be elevated and lowered as circumstances may demand.

G denotes the forward wheels, G′ the rear wheel, and G^2 the wheel on the landside, which may be of ordinary construction.

To hold the rear wheel straight in line and yet to permit its turning, when desired, as in turning a corner, the same is pivotally en-

gaged in the rear of the frame, a block H being connected with the upper end of the pivot, said block constructed with a recess *h* on its periphery. A locking-slide I, constructed to engage in said recess, is connected with the lever C in such a manner that when the lever is thrown to elevate the point said slide will be disconnected from said block, allowing the rear wheel to turn. When the lever is thrown in the opposite direction to depress the point, the slide is thrown into said recess and the rear wheel is thereby held from turning.

G^3 denotes the hand-lever, connected with and operating the wheel G^2 in the ordinary manner.

What I claim as my invention is—

1. In a wheel-plow, the combination of a frame, a plow, a plow-beam constructed with elongated slots *b b'*, levers C D, fulcrumed on said frame and engaged in said slots, respectively, and fastening devices to hold said levers in desired position, substantially as set forth.

2. In a wheel-plow provided with a rear wheel having a swiveled engagement in a frame, the combination therewith of a plow, a lever to elevate and lower the plow-point, and a movable fastening device connected with said lever to hold the swivel of said wheel from turning in the frame, said fastening released simultaneously with the lifting of the plow-point, substantially as set forth.

3. In a wheel-plow, the combination of a frame, a plow, a lever to elevate and lower the heel of the plow, a bracket F, engaged upon the frame, with which the plow has a movable engagement, and a fastening device to hold the plow in a given position.

In testimony whereof I sign this specification in the presence of two witnesses.

MOSES TROTMAN.

Witnesses:
N. S. WRIGHT,
CHAS. F. SALOW.