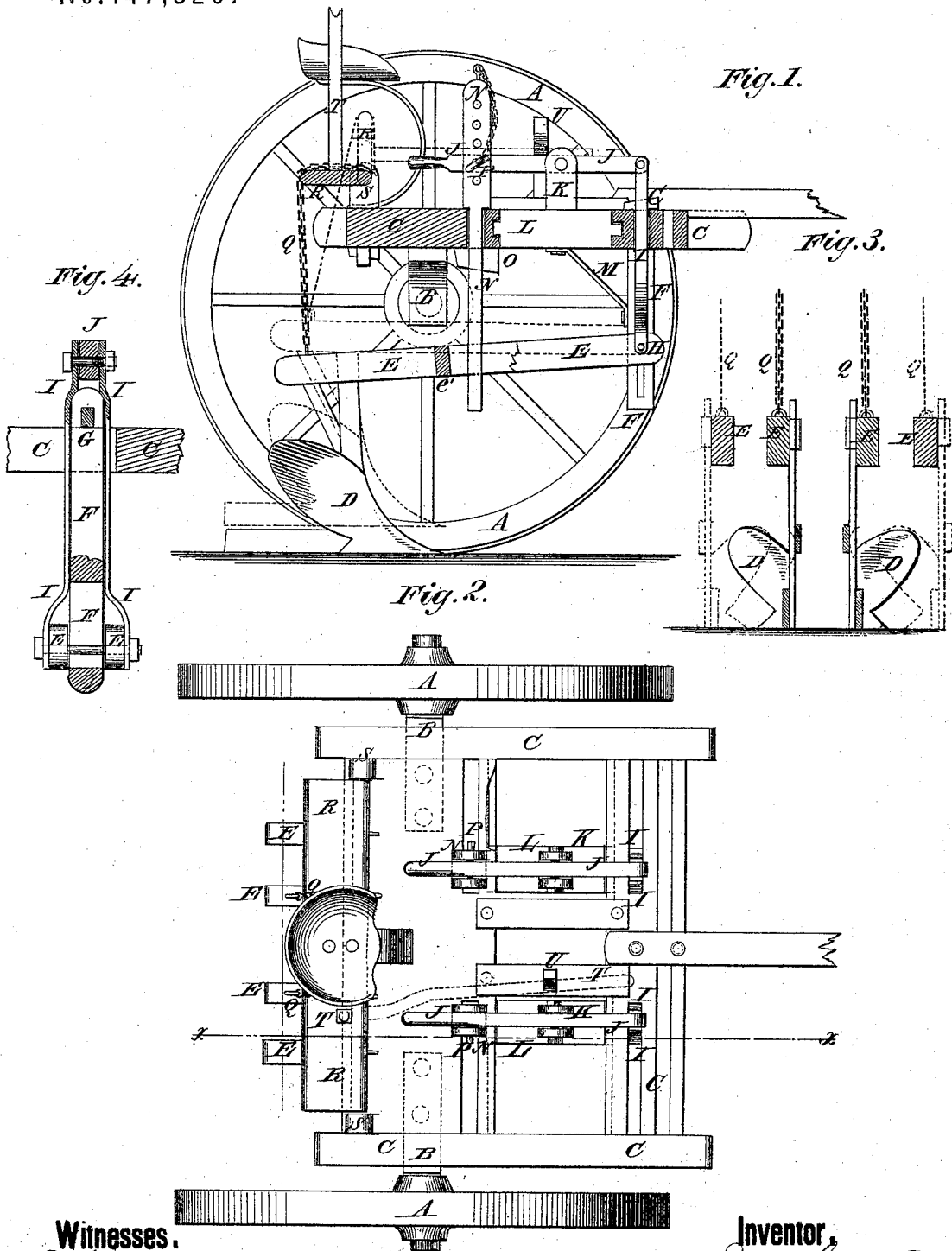


I. B. GREEN.
Wheel-Plows.

No. 147,320.

Patented Feb. 10, 1874.



Witnesses.
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UNITED STATES PATENT OFFICE.

ISAAC B. GREEN, OF GILLESPIE, ILLINOIS.

IMPROVEMENT IN WHEEL-PLOWS.

Specification forming part of Letters Patent No. **147,320**, dated February 10, 1874; application filed September 13, 1873.

To all whom it may concern:

Be it known that I, ISAAC B. GREEN, of Gillespie, in the county of Macoupin and State of Illinois, have invented a new and useful Improvement in Corn-Plows, of which the following is a specification:

Figure 1 is a vertical longitudinal section of my improved machine, taken through the line *x x*, Fig. 2. Fig. 2 is a top view of the same. Fig. 3 is a rear view of the plows and plow-beams, showing in dotted lines their position when exchanged. Fig. 4 is a detail view, showing the manner in which the forward ends of the plow-beams are supported and adjusted.

Similar letters of reference indicate corresponding parts.

The invention will first be fully described, and then pointed out in the claim.

A are the wheels, which revolve upon the journals of short axles B, the inner ends of which are secured to the rear part of the frame C. D are the plows, which are secured to the rear parts of the two-bar or double beams E, the bars of which are connected and held at the proper distance apart by blocks *e'*, of the requisite thickness, interposed between them, and to which they are secured. F are bars, the upper ends of which, or tenons formed upon said upper ends, enter transverse slots in a cross-bar in the forward part of the frame C, where they are secured detachably by wedges G, driven through a hole in said ends above the cross-bar. The lower ends of the bars F pass between the forward ends of the bars of the beams E, and are slotted vertically to receive the pin or bolt H, by which the said beams E are connected and pivoted to said bars F, so that the forward ends of the plow-beams may be raised and lowered to adjust the plows to work shallower or deeper in the ground. The bolts or pins H also pass through the lower ends of the metal bars or straps I, which pass up upon each side of the bar F, and their upper ends are pivoted to the opposite sides of the forward end of the lever J. The lever J is pivoted to a short standard, K, the lower end of

which is attached to a short beam, L, arranged longitudinally with the machine, and the ends of which, or tenons formed upon said ends, enter grooves formed in the adjacent sides of the cross-bars of the frame C, between which it is placed. The draft-strain upon the bars F is sustained by a brace, M, the lower end of which is attached to the rear side of the bar F, and its upper end is attached to the lower side of the beam L. N are standards, the lower parts of which are made thin, pass through transverse slots in the rear part of the frame C, and pass between the bars of the plow-beams L, to keep said plow-beams always in line, and prevent lateral movement of the plows. The guide-standards N are secured in place by wedges O, driven through them below the frame C. The upper parts of the guides N are slotted longitudinally to receive the levers J and keep them in position, and have numerous holes formed through them to receive a pin, P, to hold the levers J in any position into which they may be adjusted, to regulate the depth at which the plows work in the ground.

By this construction, by loosening the wedges G O, the standards F N and beam L may be moved laterally to adjust the plows farther apart or closer together, as may be desired.

To the rear parts of the beams E are attached the lower ends of the chains Q, the upper ends of which are hooked upon hooks attached to the board R. The ends of the board R, near one of its side edges, are pivoted to short studs S, attached to the rear part of the frame C. To the middle part of the board R is rigidly attached a lever, T, by means of which the driver can turn the board R upon its pivots, and thus raise the plows out of the ground. The lever T is locked, to hold the plows away from the ground, by catching it upon a spring-catch, U, attached to the frame C.

By this construction, by removing the pins or bolts H, the plow-beams may be detached and exchanged, so as to throw the soil toward

or from the plants, as circumstances may require.

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

The combination of the two detachable and exchangeable double-bar plow-beams E, and their attached plows, with the guides N, slot-

ted standards F, bars or shaft I, levers J, sliding blocks L, and braces M, and with the frame C, substantially as herein shown and described.

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