F. BIEKER.

Plows.

No. 156,123. Patented Oct. 20, 1874.

Fig 1.

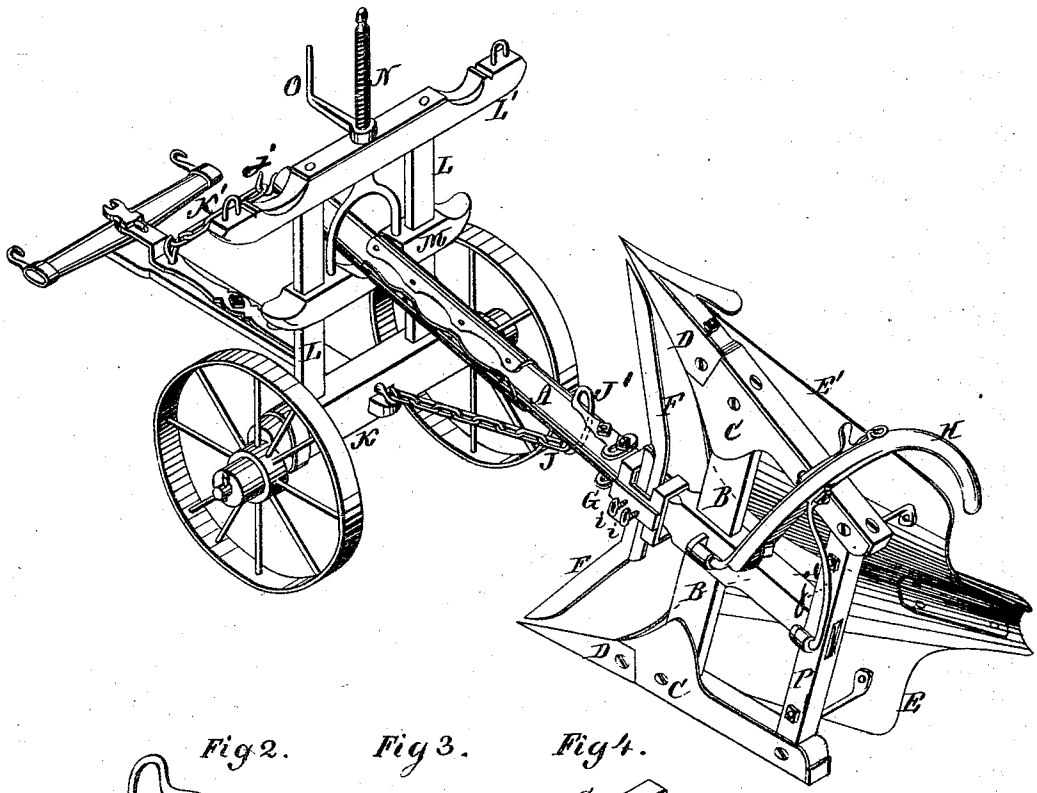


Fig 2.

Fig 3.

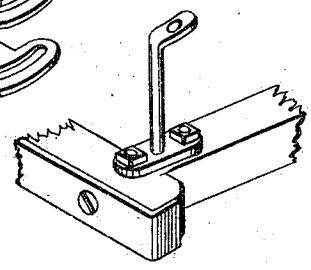


Fig 4.

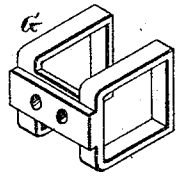
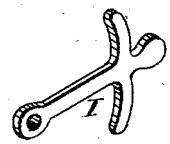


Fig 5.



WITNESSES.

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UNITED STATES PATENT OFFICE.

FRANSIS BIEKER, OF MOUNT VERNON, INDIANA.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **156,123**, dated October 20, 1874; application filed June 5, 1874.

To all whom it may concern:

Be it known that I, FRANSIS BIEKER, of Mount Vernon, in the county of Posey and in the State of Indiana, have invented certain new and useful Improvements in Plows; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, 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 the several parts of a side-hill or reversible plow, as will be hereinafter described.

In the annexed drawings, Figure 1 is a perspective view of my plow; and Figs. 2, 3, 4, and 5 are views of detached parts, as will be hereinafter specified.

In the figures, A represents the beam of my plow. B and P are standards near and at the rear end of the beam, which extend beyond it on two sides. These standards carry and support two land-sides, C C. Each land-side has its point and mold-board, D D representing the points and E E the mold-boards.

The arrangement of these two plows thus formed and connected to the beam is such that when one is at work in the ground the other is in a position vertically over it, so that when it is desirable to use them alternately it is only necessary to turn the plow over.

Passing over the beam forward of the plow is a clamp, G, for the purpose of holding the colters or cutters F F. These cutters are held by means of set-screws *i i*, and can be changed or detached at pleasure. H represents the handle of the plow. This handle is hinged to the beam so that when the plow is reversed the handle can easily be reversed with it. To this handle is pivoted a pronged catch, I, which will hook over the land-side bar which is uppermost, and confine the handle to it, in position for the operator to guide and hold the plow. To the under side of this handle is also connected a curved brace, *j'*, which is hinged to the beam A. K represents an axle which is supported by two wheels. Upon this axle are erected two standards, L L, which are connected at their upper ends by the cross-bar L'. M represents a cross-bar, which is mortised so that it will slide upon the standards. To this cross-bar M is a yoke, which is made of metal and the upper end of which terminates in a screw, N. This screw passes up through cross-bar L, and is regulated by means of a crank-nut, O.

The beam of the plow rests upon bar M and within the yoke, and thus, by elevating or lowering the said bar M by means of screw N, the forward end of the beam is regulated for plowing deeper or shallower.

It will be seen that the beam A extends in front of the standards L, and is provided with a hook, *j*, in its end, into which is caught a chain, K', which is secured to the tongue of the vehicle, to prevent any upward movement of the beam.

A chain, J, connects the beam to the axle K for the purpose of drawing the plows. One end of the chain works in a twisted loop, J', upon the plow-beam, which is so secured and arranged to it that when the beam is reversed or turned over the chain will drop in the loop and always pull from the under side of the beam.

The object of this plow is for side-hill plowing, or where it is desirable to turn the furrows all one way. The points of the two mold-boards join and are bolted together, as seen.

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

1. In combination with the rotating beam A, with its two mold-boards, plow-points, and land-sides, the two separately-adjustable colters F F, the double clamp G, and set-screws *i i*, substantially as set forth.

2. The combination of the reversible beam A and axle K of the carriage with the twisted loop J' and chain J, as and for the purposes set forth.

3. In combination with the rotating beam A, its two mold-boards, points, and land-sides of the handle H hinged to the beam, the brace *j'* hinged to the beam, and the T-shaped catch I pivoted to the handle, all as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 13th day of May, 1874.

FRANSIS BIEKER.

Witnesses:

ELIJAH M. SPENCER,

THEOD. SANDERMANN.