L. CHAPMAN.
Reversible-Plow.

No. 219,220. Patented Sept. 2, 1879.

fig. 1.

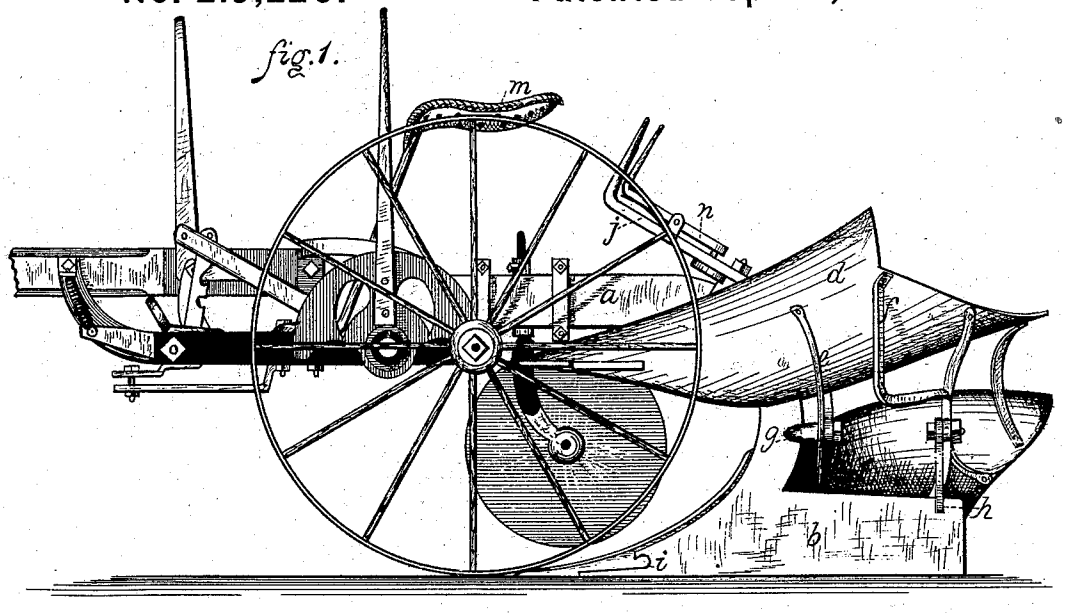


fig. 2.

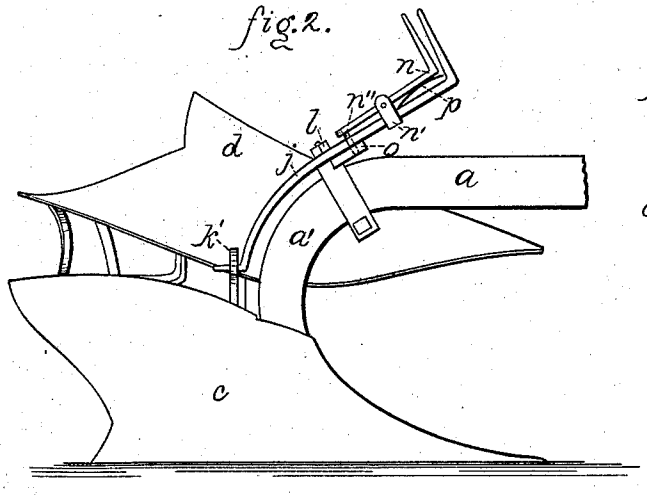
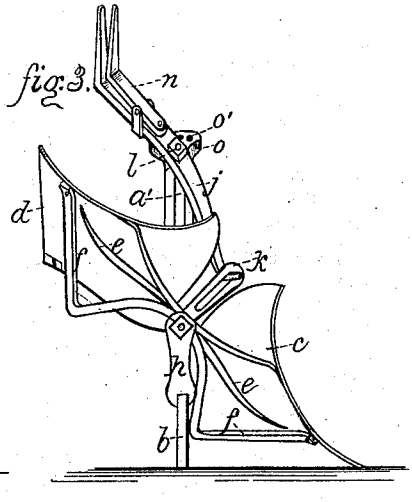


fig. 3.



Witnesses:
Robt. F. Gaylord,
W. E. Wills

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UNITED STATES PATENT OFFICE.

LUKE CHAPMAN, OF COLLINSVILLE, CONNECTICUT, ASSIGNOR TO THE COLLINS COMPANY, OF SAME PLACE.

IMPROVEMENT IN REVERSIBLE PLOWS.

Specification forming part of Letters Patent No. **219,220**, dated September 2, 1879; application filed July 29, 1878.

To all whom it may concern:

Be it known that I, LUKE CHAPMAN, of Collinsville, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements pertaining to Reversible Plows, of which the following is a specification, reference being had to the accompanying drawings, where—

Figure 1 is a side elevation of a sulky or wheel plow embodying my improvements. Fig. 2 is a side elevation from the opposite side with all but the plow proper omitted. Fig. 3 is a rear view of the parts shown in Fig. 2.

In all the figures the plow is represented in the same adjustment—*i. e.*, as a right-hand plow.

The adjustable frame, on wheels, to which my reversible plow is attached, as shown in the drawings, has been described and patented in prior Letters Patent issued to me or on my applications. I will not, therefore, repeat such description here.

The letter *a* denotes the plow-beam, which at or near its rear end drops downward, and as this drop of the plow-beam plays an important part in combination with my reversible plow and my mode of hanging or pivoting the same to the beam, I designate this drop of the beam by the letter *a'*. To the lower end of the drop *a'* of the plow-beam is attached the land-side *b*, serving as such in both adjustments of the plow, whether adjusted as a right-hand or left-hand plow.

The plow has two similar and corresponding wings or plates, *c* and *d*, the former for right-hand plowing and the latter for left-hand plowing. Each wing or plate comprises in itself the share and mold-board, or the share and mold-board may be separate parts. The invention does not reside in those particular parts. These two wings are joined toward the front by cross-bar *e*, and at rear by cross-bar *f*. By means of the former the two wings are pivoted to the drop *a'* on pivot-pin *g*, and by means of the latter to a standard, *h*, rising from the land-side. This pivoting of the plow behind the drop *a'* is a feature of the invention.

Reversible plows have heretofore been made with two wings somewhat similar to mine; but they have been so pivoted or hung as to be compelled to ride the beam, which, in such case, must be low, and thus leave the plow little or insufficient throat to clear trash; or else the beam, if made high enough to give sufficient throat, necessitates unwieldy dimensions and troublesome swing of the two wings.

The land-side is provided with a necked slot, *i*, and each wing, at the share part, with a corresponding necked tenon, shutting alternately into such slot, and holding the parts in proper working relation.

The two wings are operated for reversal by means of the lever *j*, the fingered rear end of which enters the mortised arm *k'*, rising from the joined wings—*i. e.*, rising from the cross-bar *e*. This lever is pivoted on the beam—*i. e.*, on the pivot-pin *l*—and extends to within operating distance of the driver's seat *m*. This lever carries a catch or latch, *n*, with its fore end turned up at right angles to its main part or body, so as to lie practically parallel with the similarly turned-up fore end of the lever *j*. This latch is pivoted at *n'* to the body of the lever *j*, and its rear end is turned down into a finger, *n''*, running through the lever *j*, and acting, in conjunction with holes *o'* in plate *o*, to hold the plow alternately in its two adjustments.

A spring, *p*, underlying the latch presses the finger *n''* into the holes *o'* when the opportunity offers.

I claim as my invention—

1. The plow-beam *a*, provided with the drop *a'*, the land-side having the lock *i* and *b*, serving as such in both adjustments, and the wings *c d* with lock *g*, pivoted wholly behind the drop, all combined to operate substantially as described.

2. The beam *a*, provided with drop *a'*, stationary land-side *b*, wings *c d*, the mortised arm *k'*, rising from the joined wings, and lever *j*, pivoted on the beam and extending forward, all combined to operate substantially as described.

LUKE CHAPMAN.

Witnesses:

OLIVER F. PERRY,

A. L. THAYER.