W. W. PARSONS.

Wheel Plows.

No. 151,617. Patented June 2, 1874.

Fig. 1.

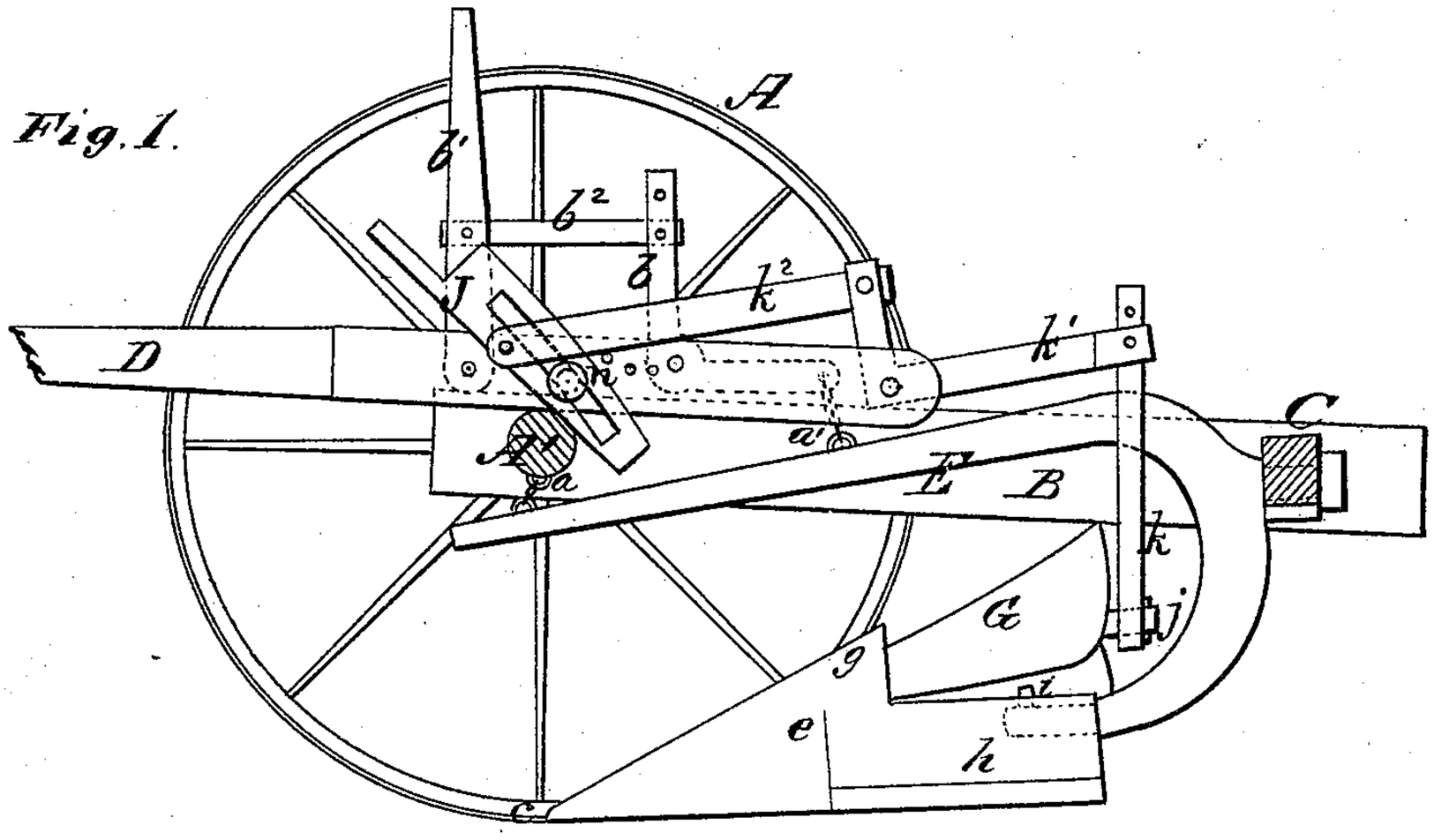


Fig. 2.

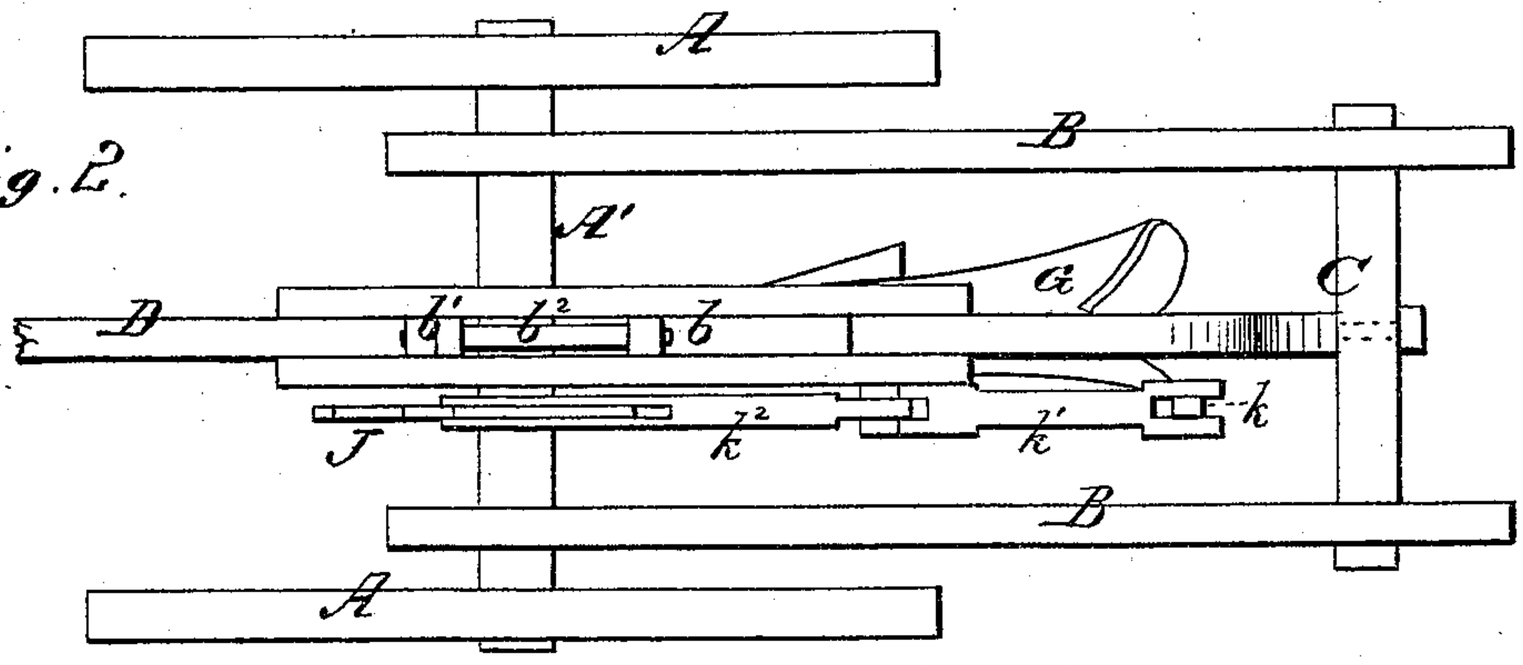
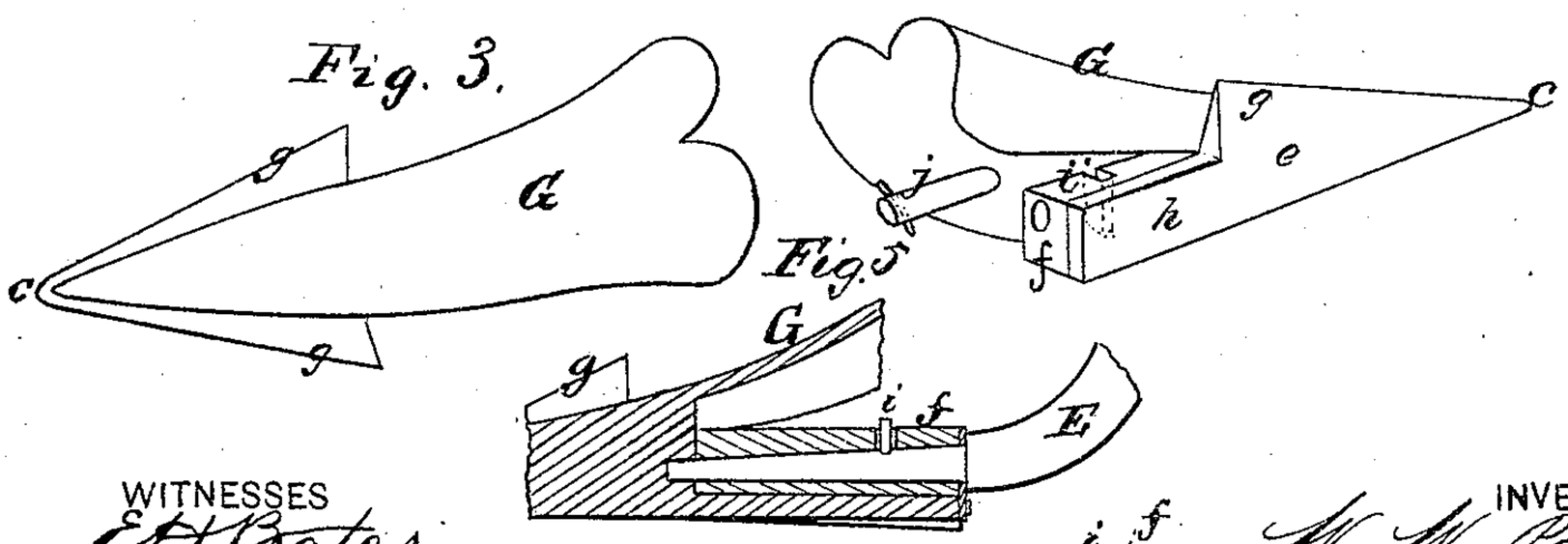


Fig. 4.

Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

WALTER W. PARSONS, OF DERBY LINE, VERMONT.

IMPROVEMENT IN WHEEL-PLOWS.

Specification forming part of Letters Patent No. **151,617**, dated June 2, 1874; application filed February 14, 1874.

To all whom it may concern:

Be it known that I, WALTER W. PARSONS, of Derby Line, in the county of Orleans and State of Vermont, have invented a new and valuable Improvement in Wheel-Plows; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a sectional view of my device. Fig. 2 is a plan, and Figs. 3, 4, and 5 detail, views of the same. Fig. 6 is a longitudinal sectional, and Fig. 7 a plan, view of the same.

This invention has relation to plows which are attached to carriage-frames, as will be hereinafter more fully described and claimed.

The following is a description of my improvements:

In the annexed drawings, Figs. 1, 2, 3, 4, and 5, I have represented my improved plow and its carriage.

A A designate carriage-wheels on an axle, A′, to which latter two beams, B B, are pivoted. These beams extend back of the axle A′, and are connected together at their rear ends by a rocking cross-bar, C. D designates the draft-tongue, the rear forked ends of which are secured to the axle A′. E designates the plow beam or stock, which is connected by a chain, *a*, to the axle A′, and by another chain, *a′*, to an angular lever, *b*, which lever is pivoted between the rear ends of the draft-tongue, and connected to a hand-lever, b^1, by a link, b^2. By this means the front of the plow can be raised and depressed. The rear curved portion of the beam E is rigidly secured to the rocking bar C, and the lower end of this curved portion of the beam is connected to the plow, as will be presently explained.

The plow is constructed with a reversible mold-board, G, which is convex transversely, concave longitudinally, and which tapers from its rear end to the point *c*. The front portion of this mold-board G is constructed with two tapered fins, *g g*, which terminate in the point *c*. When one of these fins *g* is in a horizontal position it serves as the share of the plow; the other fin *g* being in a vertical position, it serves as the colter; and the side of such fin next the sod is the land-side, (indicated by letter *e*, Figs. 1 and 4,) while the side at right angles to that last named is the sole of the plow. The lower portion of these two sides *e* are extended back to form a land-side and sole-bar, *h*, which, in cross-section, is rectangular, and to which a tubular block, *f*, is rigidly secured. This block *f* receives into it the rounded end of the beam E, which allows the plow to be turned over toward the right or left. The said rounded end of the beam is secured into the block *f* by means of a pin, *i*, which is applied into a rectangular slot, *i′*, made into this block, which slot and pin will allow the plow to be turned one-quarter either toward the right or left, but no farther. A pin, *j*, is cast on one of the wings of the mold-board G, to which pin the lower end of a rod, *k*, is pivoted, which rod is connected by a joint to the long arm of an angular lever, k^1, which is pivoted to the rear forked end of the draft-tongue D. The short arm of lever k^1 is connected to a locking-lever, J, by means of a rod, k^2. This lever J is attached to the draft-tongue by means of a pivot-bolt, *n*, which passes through an oblong slot, *n′*, made through it, which slot allows it to be moved lengthwise, as well as to be vibrated.

It is by means of the lever J that the plow can be turned either to the right or left by a person mounted on the machine.

What I claim as new, and desire to secure by Letters Patent, is—

1. The beam E, rocking bar C, pivoted bars B, chain *a*, axle A′, connecting-chain *a′*, and angular lifting-lever *b*, which is connected to a hand-lever, all combined substantially as described.

2. The reversible plow, in combination with the beam E, slotted lever J, rods *k* k^2, and angular lever k^1, as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WALTER W. PARSONS.

Witnesses:

F. S. A. PELLETIER,

N. I. WHEELER.