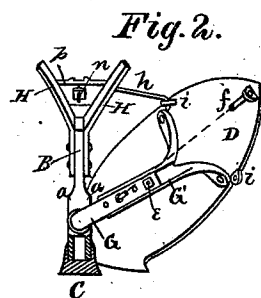
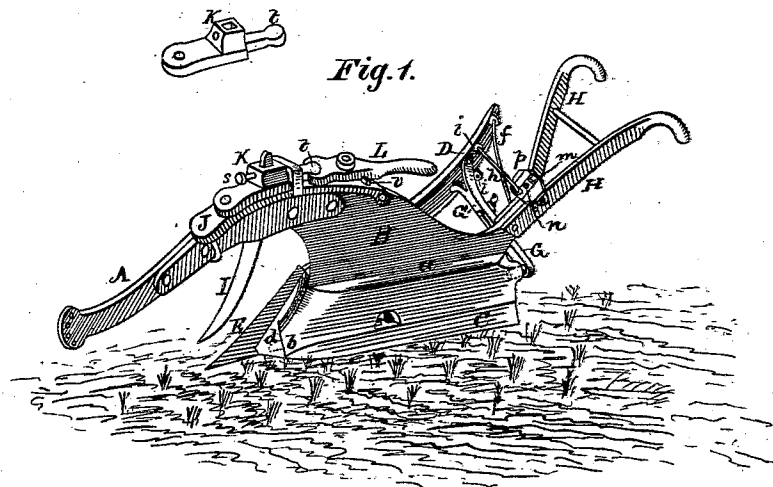


S. H. WRISLEY.  
SIDE-HILL PLOW.

No. 176,729.

Patented April 25, 1876.



WITNESSES

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# UNITED STATES PATENT OFFICE.

SAMUEL H. WRISLEY, OF CAMBRIDGE, NEW YORK.

## IMPROVEMENT IN SIDE-HILL PLOWS.

Specification forming part of Letters Patent No. **176,729**, dated April 25, 1876; application filed March 4, 1876.

### *To all whom it may concern:*

Be it known that I, SAMUEL H. WRISLEY, of Cambridge, in the county of Washington and in the State of New York, have invented certain new and useful Improvements in Reversible or Swivel 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 a reversible plow, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view of my plow. Fig. 2 is a rear elevation of the same. Fig. 3 is a cross-section of the mold-board.

A represents the plow-beam attached to a casting, B, of substantially the form shown in Fig. 1, said casting being formed on each side with a horizontal swell at *a*, so as to make the lower portion of the casting wide and form a land-side on each side thereof. The lower edge of the casting or double land-side B is grooved out longitudinally or made hollow, as shown, and a shoe, C, is placed thereon, said shoe being grooved out on top, and the casting or double land-side B fitting in said shoe, and the shoe then fastened by a single bolt passing upward through the shoe into the land-side.

D represents the mold-board, with point E secured thereto, and constructed as shown, to be used on either side of the double land-side B. This mold-board is pivoted at the front by means of a pin, *b*, projecting from the front end of the casting near the lower edge into a socket, *d*, formed in the center, on the under side of the point E.

At the rear end of the casting B is pivoted an arm, G, which is adjustably attached to a brace, G', secured to the under side of the mold-board. The end of the brace G', which is secured to the mold-board, is forked, as shown in Fig. 2, and the ends of the prongs fastened near the edges of the mold-board. The main part of said brace is grooved longi-

tudinally to receive the arm G, and both are perforated and fastened together by a bolt and nut, *e*. The extreme rear end of the mold-board is connected by a brace, *f*, with the arm G, said brace being adjustable in either of the holes in said arm, according as the mold-board is turned farther out or in. The mold-board is held to either side by means of a hook, *h*, placed in a lug, *i*, on the edge of the mold-board, the inner end of said hook being connected to a slide, *m*, placed in a grooved and slotted casting, *p*, fastened to the handles H H, and the slide adjusted and held to said casting by means of a bolt, *n*. This adjustment of the slide *m* is necessary, to agree with the adjustment of the mold-board to different angles.

I represents the colter, which is passed up through a slot in the beam A, and through a plate or casting, J, that connects the beam and casting B on top. The upper end or shank of the colter is fastened in a block, K, by means of a set-screw, *s*, said block being pivoted at its front end to the plate J. The rear end of the block K is formed with a semicircular projection, *t*, which fits in the correspondingly grooved front end of a lever, L, also pivoted on the plate J. By changing this lever on its pivot to either side of a lug, *v*, on the plate J, the colter I is turned sufficiently to place it in proper position to correspond with the position of the mold-board. The mold-board is made concave, as shown, except along its edges, where it is convex, so that the dirt will easily glide over the same.

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

1. A mold-board for a reversible plow, made concave its entire length, and provided with convex edges, substantially as herein set forth.

2. The combination of the colter I, pivoted block K with set-screw *s* and semicircular projection *t*, and the pivoted lever L, all substantially as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 21st day of February, 1876.

SAMUEL H. WRISLEY.

Witnesses:

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