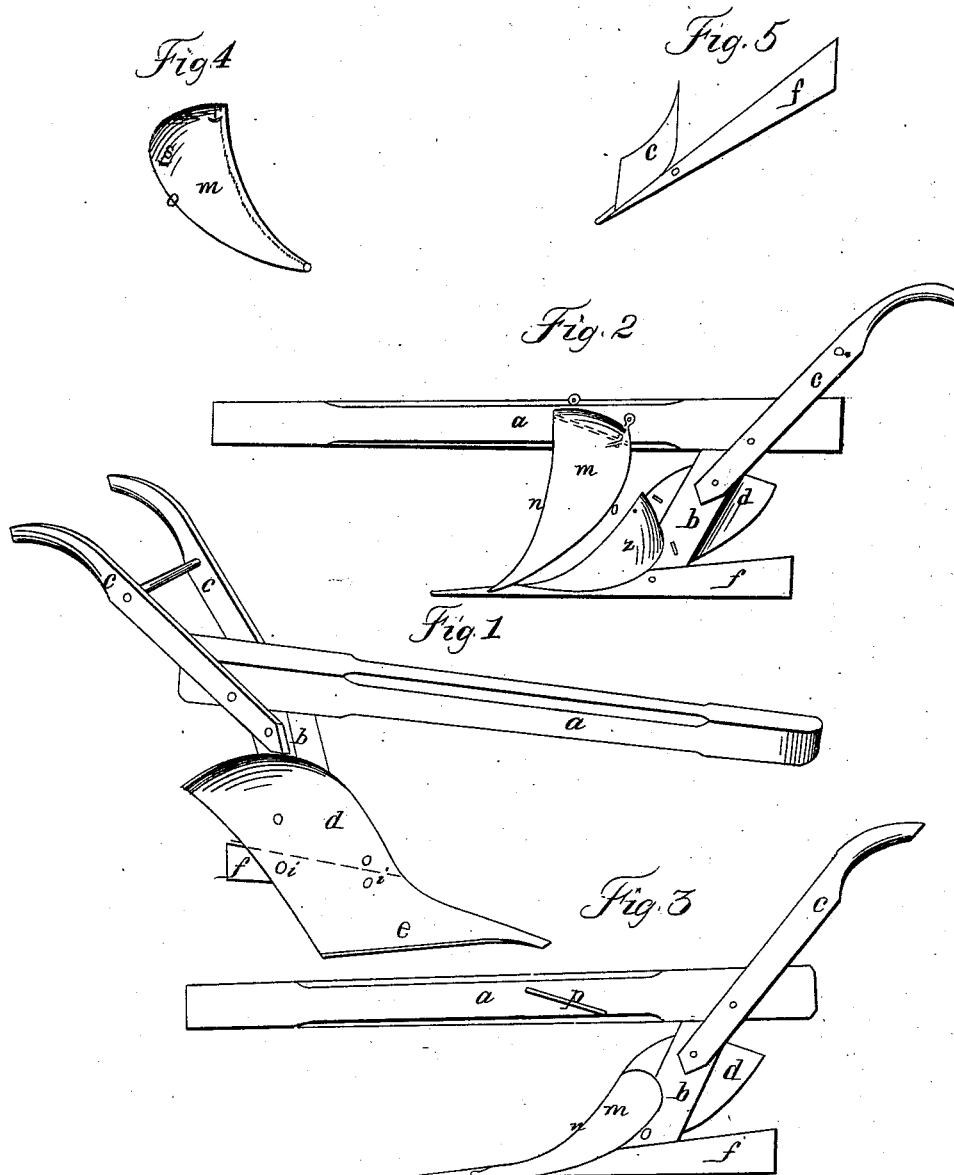


J. LAYMAN.

Plow.

No. 5,999.

Patented Jan. 2, 1849



UNITED STATES PATENT OFFICE.

JESSE LAYMAN, OF LEBANON, OHIO.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 5,999, dated January 2, 1849.

To all whom it may concern:

Be it known that I, JESSE LAYMAN, of Lebanon, in the county of Warren and State of Ohio, have invented certain new and useful Improvements in Plows, of which the following is a full and exact description, reference being had to the annexed drawings of the same, making part of this specification, in which—

Figure 1 is a perspective view of the plow, viewed on the right or furrow side. Figs. 2 and 3 are elevations of the landside, with the wing-colter in two different positions. Fig. 4 is a view of the colter detached from the landside; and Fig. 5 is a view of the landside and point, showing the part to which the colter is attached.

The same letters indicate the same parts in all the figures.

The nature of my invention and improvement consists in constructing the share and lower portion of the mold-board and the landside in one piece, the upper part of the mold-board being joined thereto by rivets, screw-bolts, or otherwise, and combining with the mold-board, share, and landside thus constructed a winged double-edged colter, which can be used either as a colter or as an auxiliary mold-board and share, as circumstances might render it advisable. By this means the plow is applicable to making deep furrows, as in summerfallowing, or to stirring up superficially a wide furrow, as in cultivating the soil between rows of corn. When deep furrows are made the strain upon the point of the plow is greatest, and to give the plow the requisite strength for this operation to resist the increased strain the colter is turned up and firmly secured to the beam, which thoroughly braces it.

In the accompanying drawings, *a* is the plow-beam, from the under side of the rear end of which the standard *b* projects downward, its lower end being inclined forward. To the sides of the beam and standard the handles *c* are affixed.

On the right side of the standard (looking from the handles toward the end of the beam) is secured the mold-board *d* and share *e*, by any convenient and suitable means, and in like manner the landside *f* is secured to the right side of the foot of the standard.

The share, point, and landside are either made of one piece of steel or iron, or of different pieces of suitable sizes and quality welded together, as seen in Fig. 5, or in any other suitable way. The upper portion, *d*, of the mold-board is made of sheet steel or iron, of the form represented, or any other more suitable, and is secured to the lower part by screw-bolts or rivets *i*.

The colter *m* is made of a strong bar of iron, with a narrow but strong edge of steel, *n*, welded to its front, and a broad plate of steel, *o*, welded to its rear edge, the latter forming a mold-board and share when turned down into the position shown in Fig. 3. In this position the front edge is not used; but with the colter in the position shown in Fig. 2 the front edge performs its office, as in the ordinary colter. The lower end of the colter is firmly connected with the landside by means of a joint made as represented, or in any convenient and suitable manner. The upper end of the colter is provided with a loop, *r*, to attach it to the beam, by which it is held in an upright position by being placed upon the upper side of the inclined catch *p*, which is perforated with a series of holes which correspond with the hole in the loop *r*, and a pin is passed through the hole of the loop and one of the holes in the catch, thus confining the point and beam together in a rigid and substantial manner.

An auxiliary mold-board, *z*, Fig. 2, may be attached to the principal mold-board *d* and standard *b*, by means of a screw-bolt or otherwise, to support the colter *m*, and also to be used without the colter when it is spread out in the position represented in Fig. 3.

In plowing sward or stiff soil, the colter is fastened to the beam, as in Fig. 2; but in cultivating corn, when it is desirable to act upon the soil in a manner analogous to that in which the shovel-plow operates, the colter is lowered down and extended, as represented in Fig. 3. When plowing stubble or light pulverulent soil the colter is not needed, and it may at such times be detached and laid aside until again wanted. In this manner one plow performs well all the different kinds of work that can be done by the ordinary shovel, sward, and common stirring or stubble plows.

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

1. The combination of the adjustable hinged and winged colter *m* with the mold-board, land-side, and beam, the same being constructed and arranged substantially as herein described.

2. The combination of the auxiliary mold-board *z* with the principal mold-board *d* and adjustable colter *m*, in the manner and for the purpose herein set forth.

In testimony whereof I have hereunto signed my name in the presence of two witnesses.

JESSE LAYMAN.

Witnesses:

JACOB HAINES,
PHINEAS J. CRETORS.