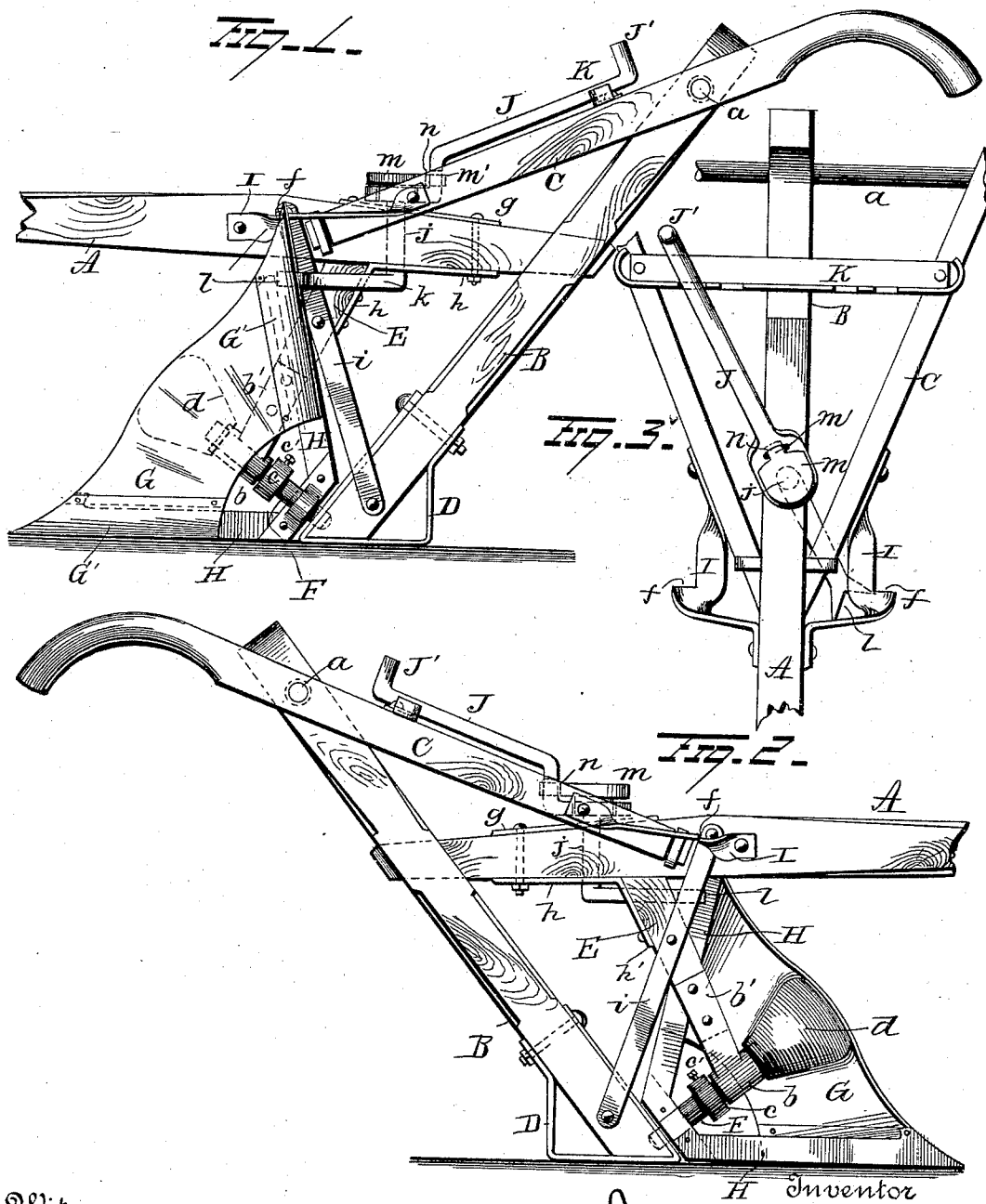


(No Model.)

J. A. COLE.
PLOW.

No. 474,651.

Patented May 10, 1892.



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JAMES ALBERT COLE, OF SAN JACINTO, CALIFORNIA.

PLOW.

SPECIFICATION forming part of Letters Patent No. 474,651, dated May 10, 1892.

Application filed November 21, 1891. Serial No. 412,597. (No model.)

To all whom it may concern:

Be it known that I, JAMES ALBERT COLE, a resident of San Jacinto, in the county of San Diego and State of California, have invented certain new and useful Improvements in Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in plows, and more particularly to that class known in the art as "reversible plows," its object being to produce an improved plow of the class specified, which shall be adapted to work on level land, and which shall be capable of operating in a thick growth of weeds and turn them without choking or otherwise injuring the plow.

A further object is to produce a reversible plow which shall be cheap to construct, easy to operate, which shall be capable of being easily turned, and which shall be effectual in the performance of its functions.

With these objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as hereinafter set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is an elevation of my improved plow. Fig. 2 is a similar view, looking at the opposite side of the plow. Fig. 3 is a plan view.

A represents a plow-beam, B the stock, and C the handles, which latter are secured to the beam at their forward ends and braced by means of a rod or bar *a*, passing from one to the other and through the upper end of the stock.

Secured to the lower end of the stock is a heel D, which when the plow is in use rests squarely in the bottom of the furrow and serves to steady the plow. One end of the heel D is secured to the rear side of the stock, while the other end is bent around the end of the stock and secured to the front face thereof.

Secured to and depending from the beam A is a bar E, at the lower end of which a tubular bracket *b* is located, said bracket having arms *b'* secured to the bar E. A shaft F is passed loosely through the bracket *b* and

bears at its lower end in a perforation or socket made in the heel-piece D and stock B, said shaft being disposed in a diagonal position and retained in proper place by means of a collar *c*, held on said shaft by means of a set-screw *c'* and adapted to bear against the bracket *b*. The upper end of the shaft F enters and is secured to a boss or enlargement *d*, made on the back of a reversible mold-board G, the upper end of the tubular bracket *b* also loosely entering the enlargement *d*. The mold-board G is curved substantially as shown in the drawings, having straight edges at its ends, said ends being so made as to project at an obtuse angle relatively to each other, and are adapted for the reception of removable shares G', which are bolted or otherwise secured thereto.

Rigidly secured to the shaft F is a landside H, which extends from the shaft F to each end of the mold-board G, so that when the mold-board is disposed at one side of the plow-beam one portion of the landside will be in operative position and when the mold-board is at the other side of the beam the other portion of the landside will be in operative position.

Secured to each side of the beam B is a bracket or gage I, said brackets or gages being also secured to the handles C. Each bracket or gage I is made with a notch *f* for the reception of one or the other end of the landside, whereby the plow will be maintained in proper relation to the ground on one or the other side of the beam A.

Secured to the upper and lower faces of the beam A are plates *g h*, the plate *h* being provided with a depending arm *h'*, secured to the depending bar E and adapted to act as a brace for said bar. The bar E and the stock B are further braced by means of plates *i*, secured at the upper ends to the beam A, at their lower ends to the stock B, and at a point between their ends to the depending bar E. The beam B and plates *g h* are perforated for the reception of a rod or bar *j*, which passes loosely through said perforations, said rod or bar being provided at its lower end with an arm *k*, having a bifurcated or forked free end *l*. The forked end *l* of the arm *k* is adapted to engage one or the other end of the

landside and maintain the same and the mold-board in proper position and prevent the lateral movement of the same. Secured to the upper end of the rod or bar *j* is a plate

5 *m*, having a laterally-projecting lug or ear *m'*.

One end of a bent arm or lever *J* is provided with a perforation at its outer end for the reception of the rod or bar *j*, the outer end of said arm or lever being located between the
10 plate *m* and the plate *g*, and is provided with an elongated slot *n* for the reception of the lug or ear *m'* of plate *m*. The arm or lever *J* is adapted to project rearwardly and is bent upwardly at its rear extremity to pro-
15 duce a handle *J'*. A notched bar *K* is secured to the handles *C* of the plow and adapted to extend from one handle to the other. When the plow is set to the side of the beam desired, it is maintained from escape from its
20 position by the engagement of the arm or lever *J* with the notched bar *K*.

By the construction above described a plow will be produced which will be effectual in plowing in level ground, and which may be
25 easily and quickly reversed and securely held in the position to which it is shifted.

The landside may, if desired, be made removable.

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

1. In a plow, the combination, with a stock, a beam secured thereto, handles secured to the beam and stock, braces secured to the
35 beam and lower end of the stock, and a depending bracket secured to the beam and the connecting-braces, of a reversible mold-board, guards secured to the side of the beam, and

an arm for locking the mold-board, substantially as set forth.

2. The combination, with beam, stock, and handles, of a reversible mold-board, an arm loosely mounted in the beam and adapted to engage and lock the mold-board, a plate on the upper end of this arm, having a projec-
45 tion thereon, a hand-lever provided with an elongated slot adapted to receive this projection, and means for locking the hand-lever, substantially as set forth.

3. The combination, with a beam, stock, handles, bracket depending from the beam, braces secured to the beam, bracket, and stock, plates secured to the upper and lower faces of the beam, one of said plates also secured to the depending bracket, of a reversi-
55 ble mold-board, guards on the sides of the beam, and a locking-arm passed loosely through the beam and the plates thereon and adapted to lock the mold-board in position, substantially as set forth.

4. The combination, with a beam, stock, handles, a plate bent around the lower end of the stock, forming a shoe and secured to the front and rear of the stock, and a de-
65 pending bracket, of a shaft supported in the shoe and depending bracket, a reversible mold-board secured to the shaft, and means for locking the mold-board, substantially as set forth.

In testimony whereof I have signed this
specification in the presence of two subscrib-
ing witnesses.

JAMES ALBERT COLE.

Witnesses:

G. N. PHAR,
J. E. LEEMAN.