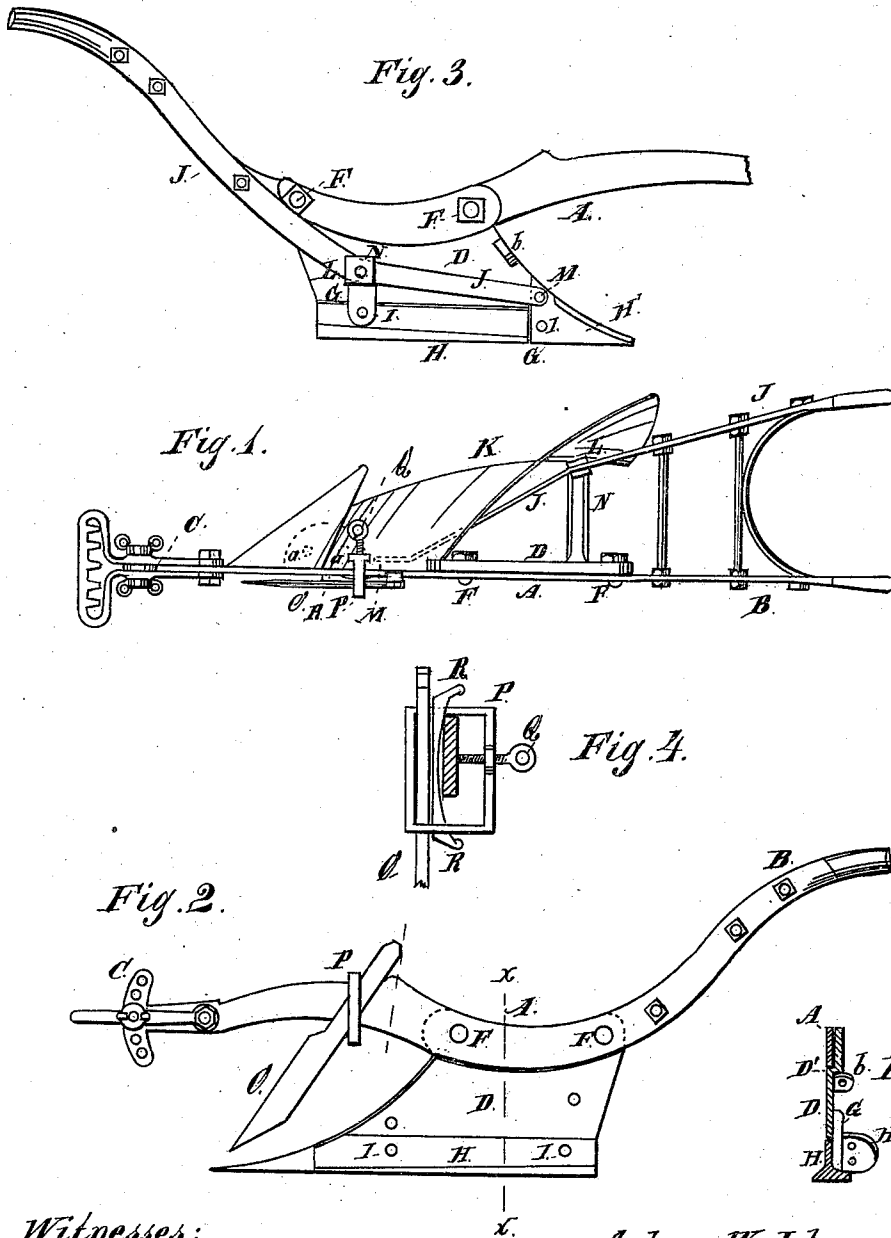


A. W. JOHNSON.

PLOW.

No. 174,367.

Patented March 7, 1876.



Witnesses:

Stanish J. Burns.
E. A. Bunting.

Andrew W. Johnson,

Inventor.

By Coburn & Thacher

Attys.

UNITED STATES PATENT OFFICE.

ANDREW W. JOHNSON, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **174,367**, dated March 7, 1876; application filed December 2, 1875.

To all whom it may concern :

Be it known that I, ANDREW W. JOHNSON, of Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Plows; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, forming part of this specification.

The object of my invention consists in making a plow that can be renewed in certain of its parts and be strong and durable, make an even, smooth furrow, be of light draft, and be readily adjusted to plow furrows of varying thickness or width.

My invention consists of the various mechanisms and devices hereinafter fully described and claimed.

In the accompanying drawing, Figure 1 represents a top or plan view of my plow; Fig. 2, a side elevation of the land-side; Fig. 3, a vertical section, showing the other side of the plow with the mold-board removed; Fig. 4, a transverse section of the beam, showing the devices for attaching the colter; and Fig. 5, a section taken at the line *x x*.

I make a metallic beam, A, which extends across the top of the land-side, and forms a continuous piece with the handle B. The point end of the beam is widened vertically at C, and is provided with holes, in which the clevis can be raised or lowered to make the plow run more or less deep in the ground. The land-side D extends up to the beam, and is cast with an offset or shoulder, which receives the beam. The beam rests on this shoulder D', and is bolted to the top of the land-side, which extends above this shoulder, by the bolts F. There are lugs G on the lower edge of this land-side D, to which the shoe H is bolted by the bolts I. The front lug has a vertical part, to which the shoe is bolted, and a horizontal part, H', to which the plow share or point and the front end of the mold-board are attached by the bolts *a a*. There is also a lug, *b*, cast on the land-side, to which the mold-board is also bolted. The shoe H can

be renewed, when worn, by removing these bolts I. The handle J is bolted to the mold-board K at L, and extends diagonally across, and forms a brace, being bolted to the front of the plow at M. There is a brace, N, which extends from the mold-board to the land-side, and is fastened to each by bolts passing through its ends, turned at an angle to fit them. This makes the plow strongly braced. The colter O is fastened to the beam by the band P; and the screw-bolt Q, whose ends rest against the plow-beam, draws, by its screw-thread, the band P firmly against the colter, and secures it in place. R is a piece made thin at its middle and thick at its ends, and is used for adjusting the colter.

By raising this loose piece R, so that the thick lower end is brought between the plow-beam and the colter, which throws the lower end of the colter more to the land, and by lowering this piece, so as to bring the thick upper end between the beam and colter the lower or cutting end of the colter is thrown from the land. This screw-bolt fastening enables a very quick and easy adjustment of the colter, as desired.

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

1. The combination of the land-side D, provided with a shoulder extending entirely across it, and the beam A, resting upon said shoulder, substantially as described.

2. The land-side D, constructed with a shoulder upon its upper edge for the purpose of receiving the beam, and with lugs upon its lower edge for the purpose of fastening the shoe to the land-side, substantially as described.

3. The combination of the band P, the double wedge R, the set-screw Q, and the colter O, substantially as and for the purposes set forth.

ANDREW W. JOHNSON.

Witnesses:

LEWIS TEGNER,
HEINRICH F. BRUNS.