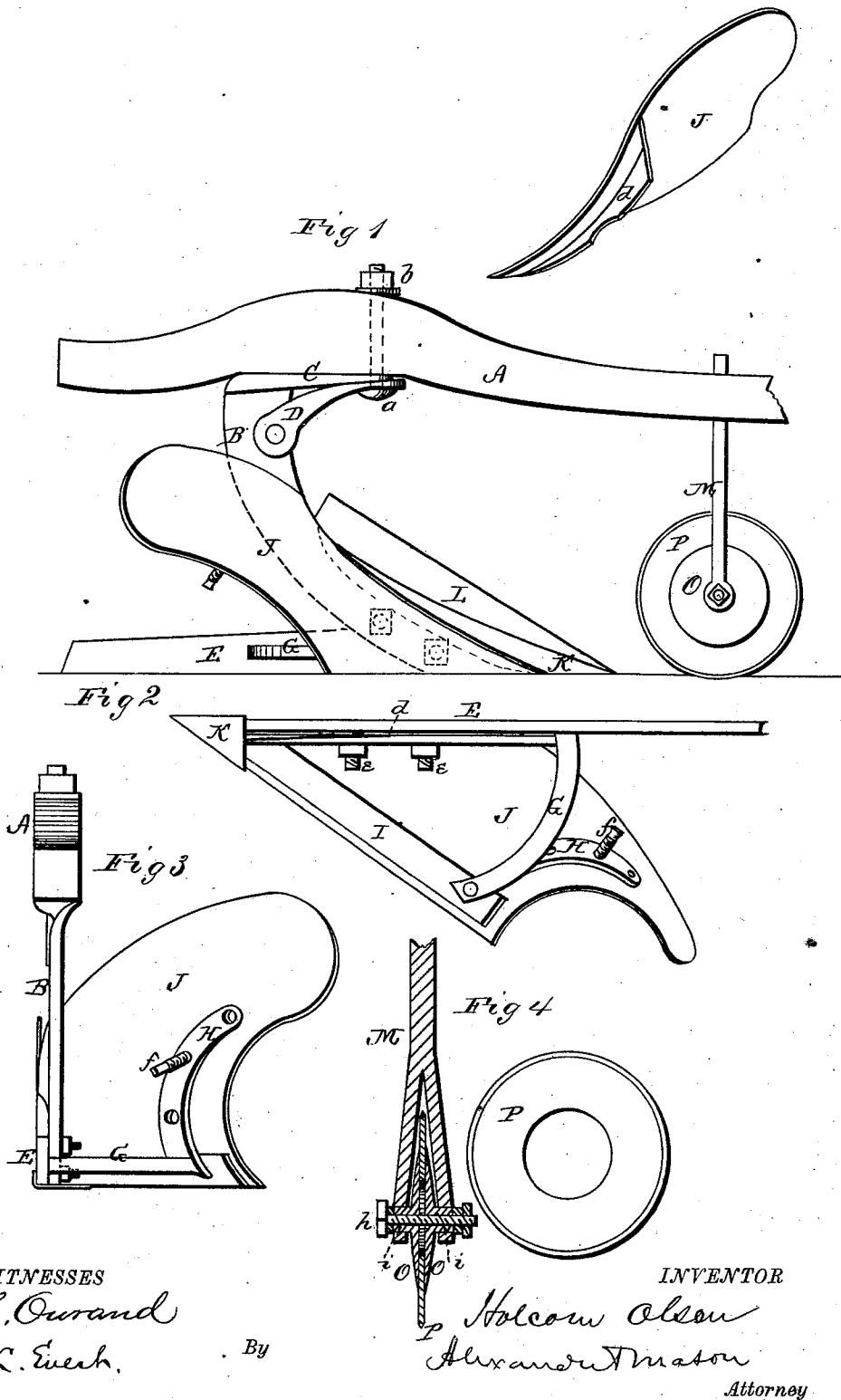


H. OLSON.

Plow.

No. 164,025.

Patented June 1, 1875.



UNITED STATES PATENT OFFICE.

HOLCOM OLSON, OF MOUNT PLEASANT, IOWA.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **164,025**, dated June 1, 1875; application filed April 1, 1875.

To all whom it may concern:

Be it known that I, HOLCOM OLSON, of Mount Pleasant, in the county of Henry and in the State of Iowa, have invented certain new and useful Improvements in 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 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 side elevation of my plow. Fig. 2 is a bottom view, and Fig. 3 a rear elevation, of the same. Fig. 4 is a detached view of the circular revolving colter.

A represents the plow-beam, made in any suitable form. B is the curved plow-standard or plow-foot, provided at its upper end with a forwardly-projecting arm, C, through the front end of which passes a vertical bolt, *a*, up through the plow-beam A and fastened with a nut, *b*, on top thereof. The bolt *a* also passes through the front end of a brace, D, the rear end of which is forked, and straddles the plow-standard B a suitable distance below the arm C, and is riveted or otherwise permanently fastened thereto. E represents the land-side bar, to which is fastened a bar, G, said bar extending inward and forward, and having a curved arm, H, attached to it at its front end. At the junction of the bar G and arm H is also attached a bar or plate, I, to support the lower edge of the mold-board. J represents the mold-board, made of sheet metal, and provided with a flange, *d*, which is inserted between the plow-standard B and land-side bar E, and clamped by means of bolts *e e*, securing the land-side bar to the standard. The mold-board J is formed with

the plow point or share all in one piece, and no bolts passing through the faces thereof. The mold-board is adjusted, as regards its curvature, to suit the kind of soil it passes through, by means of a set-screw, *f*, which is passed through the arm H and bears against the under side of the mold-board.

When the plow is to be used as a breaking-plow a hollow point, K, is slipped over the plowshare, said hollow point being provided with a cutter, L. In the beam A is inserted a shank, M, in front of the plow, the lower end of said shank being split and separated for the reception of the revolving colter. The colter is formed of two disks, O O, provided on their outer sides with central projecting hubs, *i i*, which are inserted in the ends of the shank-prongs, as shown in Fig. 4. Between the disks O O is placed an annular steel plate or ring, P, which is clamped between them by a bolt, *h*, passing through the hubs *i i*.

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

1. A mold-board and point or share made in one piece and provided with a flange, *d*, as shown, to be clamped between the plow-standard B and land-side bar E, all combined substantially as and for the purposes herein set forth.

2. The frame of a plow, consisting of the standard B, bar G, arm H, supporting-plate I, and land-side bar E, all substantially as and for the purposes herein set forth.

3. The combination of the mold-board J, frame B G H, and set-screw *f*, for regulating the curve of the mold-board, substantially as herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 16th day of February, 1875.

H. OLSON.

Witnesses:

J. W. HAMPTON,
JNO. S. WOOLSON.