

J. F. RYAN.  
Plow-Standard.

No. 206,830.

Patented Aug. 6, 1878.

Fig. 1.

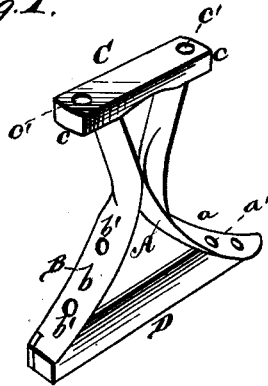


Fig. 2.

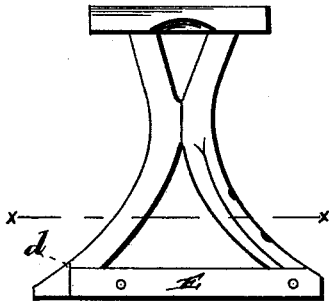


Fig. 3.

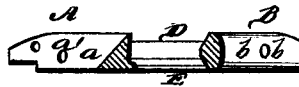


Fig. 4.

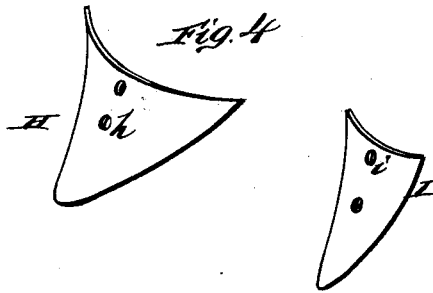


Fig. 5.

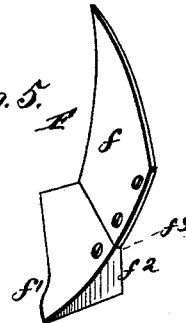
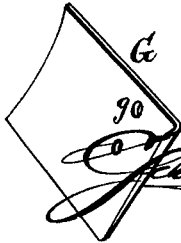


Fig. 6.



WITNESSES  
*Robert Everett*  
*James J. Shueby*

INVENTOR.  
*John F. Ryan*  
*Wm. S. Smith*

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JOHN F. RYAN, OF MAYSVILLE, KENTUCKY.

## IMPROVEMENT IN PLOW-STANDARDS.

Specification forming part of Letters Patent No. 206,830, dated August 6, 1878; application filed July 6, 1878.

*To all whom it may concern:*

Be it known that I, JOHN F. RYAN, of Maysville, in the county of Mason and State of Kentucky, have invented a new and valuable Improvement in Plows; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a perspective view of my combined plow. Fig. 2 is a side view. Fig. 3 is a sectional plan view through  $xx$ ; and Figs. 4, 5, and 6 are perspective details of the same.

My invention relates to a double reversible plow-shin, to which interchangeable plows, cultivators, scrapers, and the like may be attached without the use of plates or other devices, except bolts.

The invention consists in a two-faced curved standard, which secures together two horizontal bars. Each of the curved standards or seats is provided with bolt-holes, by which the different devices are secured to the shin. One of the standards has a beveled front surface to furnish a bearing for the plow and scraper, and the other has an oval front to supply bearings for the shovel-plow and cultivator. The side opposite to the bevel for the mold-board is formed in a longitudinal plane for a land-side. Projections and bolts from and through the upper horizontal bar serve to secure it to the plow-beam, and a shoulder on the lower bar serves as a bearing for the land-side of the plow.

It will then be observed that my invention is a double plow-standard, made to reverse upon the plow-beam, one side being beveled to carry a turn-plow and scraper, and the other being formed to furnish bearing for a shovel-plow or cultivator.

Referring to the drawings, A represents the plow-standard, having beveled side  $a$  and bolt-holes  $a'$ . B represents the cultivator-standard, having oval front surface  $b$  and bolt-holes  $b'$ . The standards A and B are curved

in different directions, are joined and rigidly secured together at or near their centers upon their convex surfaces, and at their upper extremities are attached to a beam-bar, C, having projections  $c$  and bolt-holes  $c'$ , for attachment to the plow-beam. (Not shown.) The lower extremities of the standards A B are attached to the foot D, having a shoulder,  $d$ , to receive and furnish bearings for the land-side of the plow-point.

E represents a longitudinal plane on the standards A B and on the foot D, and this plane furnishes or comprises a land-side, which serves when either of the standards are ahead.

These parts form my complete standard, and the standard thus formed is adapted to be secured to the plow-beam and be reversed at will thereon.

F represents a plow consisting of the mold-board  $f$ , point  $f'$ , and land-side  $f''$ , with shoulder  $f'''$  to abut against the shoulder  $d$  on the foot D. This plow is adapted to be secured to the beveled standard A by bolts.

G represents the scraper, adapted to be secured to the same standard, and it is provided with bolt-holes  $g$ , as shown.

H and I represent the shovel-plow and cultivator, adapted to be secured to the oval standard B by bolts through holes  $h i$ .

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

The plow-shin described, consisting of the curved part A, having beveled outer surface  $a$  and bolt-holes  $a'$ , the part B, having oval surface  $b$  and bolt-holes  $b'$ , the beam-bar C  $c$ , and the plow-foot D with shoulder  $d$ , and having land-side E, as shown, adapted to serve relatively to the plow F  $f f' f'' f'''$  or cultivators G, H, or I at will, and to be reversed upon the plow-beam, when desired, as herein specified, for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN FRANKLIN RYAN.

Witnesses:

GEO. W. SULSER,  
WILLIAM T. BERRY.