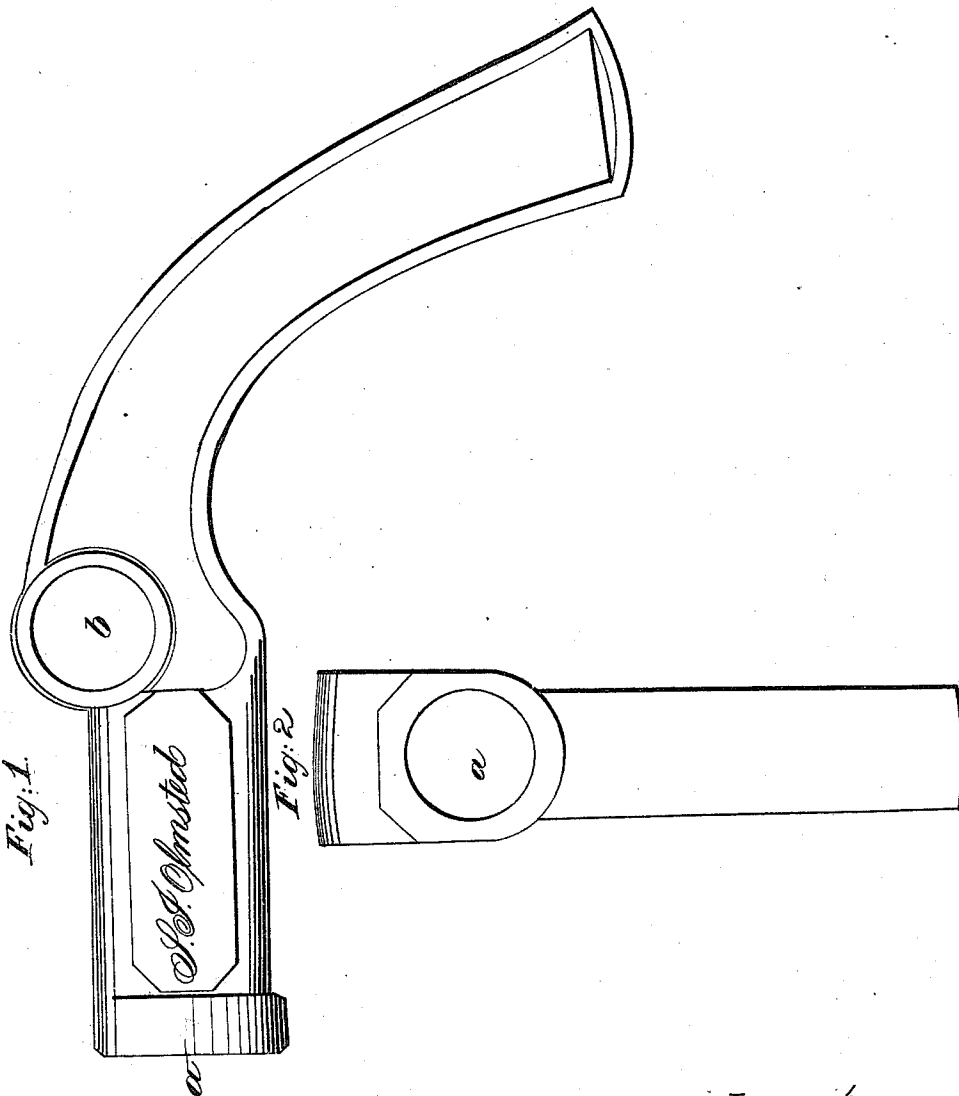


S. J. OLMSTED.

Plow.

No. 42,220.

Patented Apr 5. 1864.



Witnesses;  
Geo C Lambright  
J. Smith

Inventor;  
S. J. Olmsted  
by Alby T. P. Everett

# UNITED STATES PATENT OFFICE.

S. J. OLMSTED, OF BINGHAMTON, NEW YORK.

## IMPROVEMENT IN PLOW-HANDLES.

Specification forming part of Letters Patent No. 42,220, dated April 5, 1864.

*To all whom it may concern:*

Be it known that I, S. J. OLMSTED, of Binghamton, in the county of Broome and State of New York, have invented a certain new and Improved Hand-Handle for Plows, Cultivators, and other Agricultural Implements; and I 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 and marks thereon.

That part of the handle of plows, cultivators, &c., which is called the "hand-handle" is the most difficult to make and the most expensive. It is also more liable to be broken than any other part, and not as easily repaired, and not as apt to be strong and durable when repaired. If the plow-handle be made without this part and a metallic handle be attached thereto, less expense will be incurred, a better and stronger hand-handle be used, and if broken can easily and cheaply be replaced, so that economy and durability both accrue from the use of the metallic hand-handle.

The drawings forming part of this application show such a hand-handle, Figure 1 being a side view thereof, and Fig. 2 a view of the end to fit on the plow-handle.

This end *a* will be recessed to a sufficient depth to give a firm bearing for the end of the plow-handle. Such recess may be of the same width or diameter throughout, or it may be widened out as it deepens, so that if the end of the plow-handle have a slit for a wedge the driving on of the metallic handle will force the

slitted end out, and thus the more firmly bind the two together. An aperture or a hole, *b*, as is shown by Fig. 1, will allow of the reins being passed through, and add much to the convenience of the driver or workman in guiding the team and controlling the plow or cultivator.

This metallic hand-handle can be made of cast or of wrought metal. Holes may be formed at the end for screws or rivets, if they be preferred as means for attaching it to the wooden handle. If made of cast metal, a female screw-thread might be formed on the inner surface, on the recessed surface, in the well-known process of casting, and thus this handle be screwed onto the wood end having a male screw. If made of wrought metal, the usual mode of cutting out of plate and swaging into form by the drop and die might be adopted. Iron, brass, or any of the alloys generally used in like articles can be used in making this handle.

What I claim as my invention, and desire to secure by Letters Patent, as a new article of manufacture, is—

The metallic hand-handle for plows and other agricultural implements, having a rein-hole therein, and constructed substantially as herein recited.

This specification signed this 5th day of February, 1864.

S. J. OLMSTED.

Witnesses:

JAS. A. WEED,  
C. H. HOPKINS.