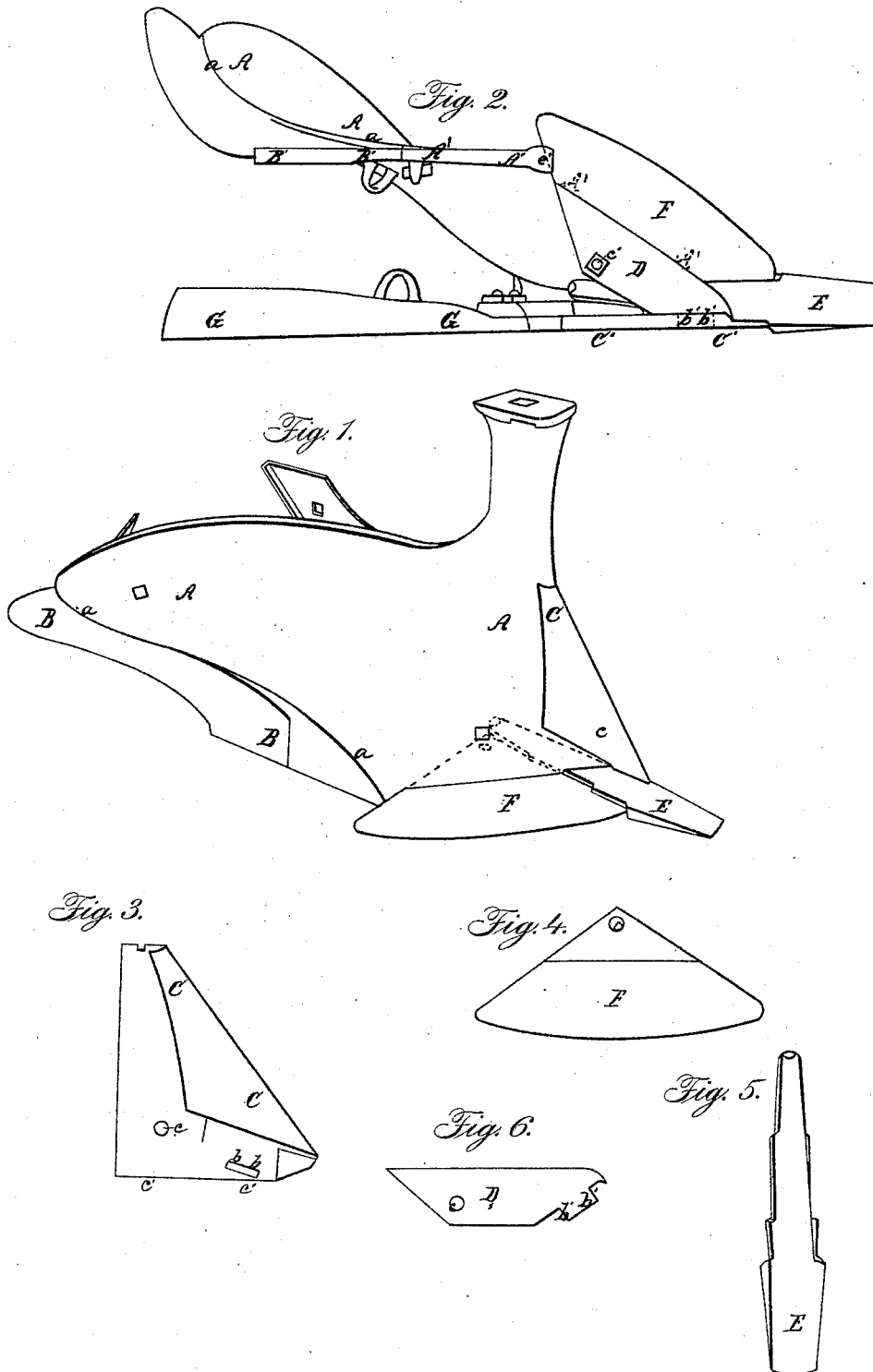


J. C. CLOUD.

Plow.

No. 6,100

Patented Feb. 6, 1849



# UNITED STATES PATENT OFFICE.

JOS. C. CLOUD, OF MAY'S LANDING, NEW JERSEY.

## IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 6,100, dated February 6, 1849.

### *To all whom it may concern:*

Be it known that I, JOSEPH C. CLOUD, of May's Landing, in the county of Atlantic and State of New Jersey, have made certain new and useful Improvements in Plows; and I do hereby declare that the following is a full and exact description thereof.

My first improvement consists in adding at the back end of the mold-board what I have denominated an "auxiliary furrow-side," which may be cast separately from, and permanently attached to, the ordinary mold-board.

Plows, as usually constructed, rest on the heel of the landside and on the sharp edge of the share, and in consequence of this the least variation of the handles of the plow causes the share to cut up or down, according as the handles are accidentally inclined; but the auxiliary furrow-side presents a broad bearing on the ground, and is so formed that the bearing is both on the heel of the landside and on the heel of the furrow-side, by which means the cutting of the share is readily regulated by the plowman. The auxiliary furrow-side concurs with the mold-board in thoroughly laying over the entire furrow-slice, its outward inclination concurring with the mold-board in producing this effect, and its face being on the line of draft. The cutter is also formed and attached in a new, firm, and advantageous manner, and is so combined with the point and share, by means of a wrought-iron plate, which has a tenon adapted to a mortise in said cutter, that these parts are thereby more effectively secured in place than by any of the plans heretofore adopted.

In plows of all kinds the wear that takes place on the under side, in the vicinity of the point, is very great, but this I obviate, in great measure, by the extending of that part of my cutter that constitutes a portion of the landside down to the bottom of the plow, where it forms a bearing on the ground, and it is thereby made to receive the larger part of the friction that takes place there, and, being renewable with the cutter, increases the durability of the plow.

In the accompanying drawings, Figure 1 is an elevation of the plow on its mold-board side. Fig. 2 is a bottom view thereof, with

the respective parts put together. Fig. 3 is the cutter separated from the other parts. Fig. 4 is the share; Fig. 5, the point; and Fig. 6, a plate of wrought-iron, by the aid of which these latter parts are securely bound together, while the strength of these parts is not in any degree impaired for the purpose of confining them, as is usual in other constructions.

A A is the face of the mold-board proper, which does not present anything peculiar, and B B, the auxiliary mold-board or furrow-side, forms an obtuse angle in the line *a a* of the ordinary mold-board.

B' B', Fig. 2, is the bottom edge of the auxiliary mold-board, and A' A' the bottom edge of the ordinary mold-board at its rear part, where the angular offset *a a* of the auxiliary mold-board commences.

The cutter C C extends round to the back part of the plow, so as to form a part of the landside, where it is secured by bolts and notches, as in many other plows, its lower edge, C' C', extending down to the bottom of the plow, as above remarked. It has a mortise through its lower portion, as shown at *b b*, Fig. 3, and into this fits a tenon, *b' b'*, formed on the wrought-iron plate D, Fig. 6. (Shown also in dotted lines in Fig. 2.)

In putting these parts together the point E, Figs. 1, 2, and 5, is first laid in place and retained by the recess and notches on the lower edge of the mold-board. The share F is then put on, the hole *c* corresponding with the place of the bolt *c'*. Upon this is placed the wrought-iron plate D, the tenon of which, *b'*, passes into the mortise *b* in the cutter, while the hole through it at *c* corresponds with that through the share. Under this arrangement, when the bolt *c'* is passed through the plate D, the share F, and the cutter C the point, the point, and the share will be held immovably in place. The share is received within a notch at *e* in the bottom of the mold-board, as shown by the dotted lines, and at this point the obtuse angle *a a* in the bottom of said board, which constitutes the commencement of the auxiliary furrow-side, begins, forming a bearing parallel, or nearly parallel, with the bottom G G of the landside.

Having thus fully described the manner in

which I construct, arrange, and combine the respective parts of my plow, what I claim therein as new, and desire to secure by Letters Patent, is—

1. The employment of what I have denominated the "auxiliary furrow-side," forming a broad bearing at the heel of the mold-board, which is to be formed and combined with the plow, substantially as described, either in one piece with the mold-board or by an additional casting.

2. The fastening of the cutter C, extending down on the landside to the bottom of the plow,

in the manner and for the purpose set forth, by means of a mortise through it that receives the tenon *b'* on the wrought-iron plate D, and which plate is bolted to the mold-board at *c'*.

3. The particular manner in which I secure the point and share to the cutter by means of the plate D, having a tenon, *b'*, thereon, and the ordinary screw-bolt, as described.

JOS. C. CLOUD.

Witnesses:

THOMAS PARSONS,  
JOS. C. PARSONS.