

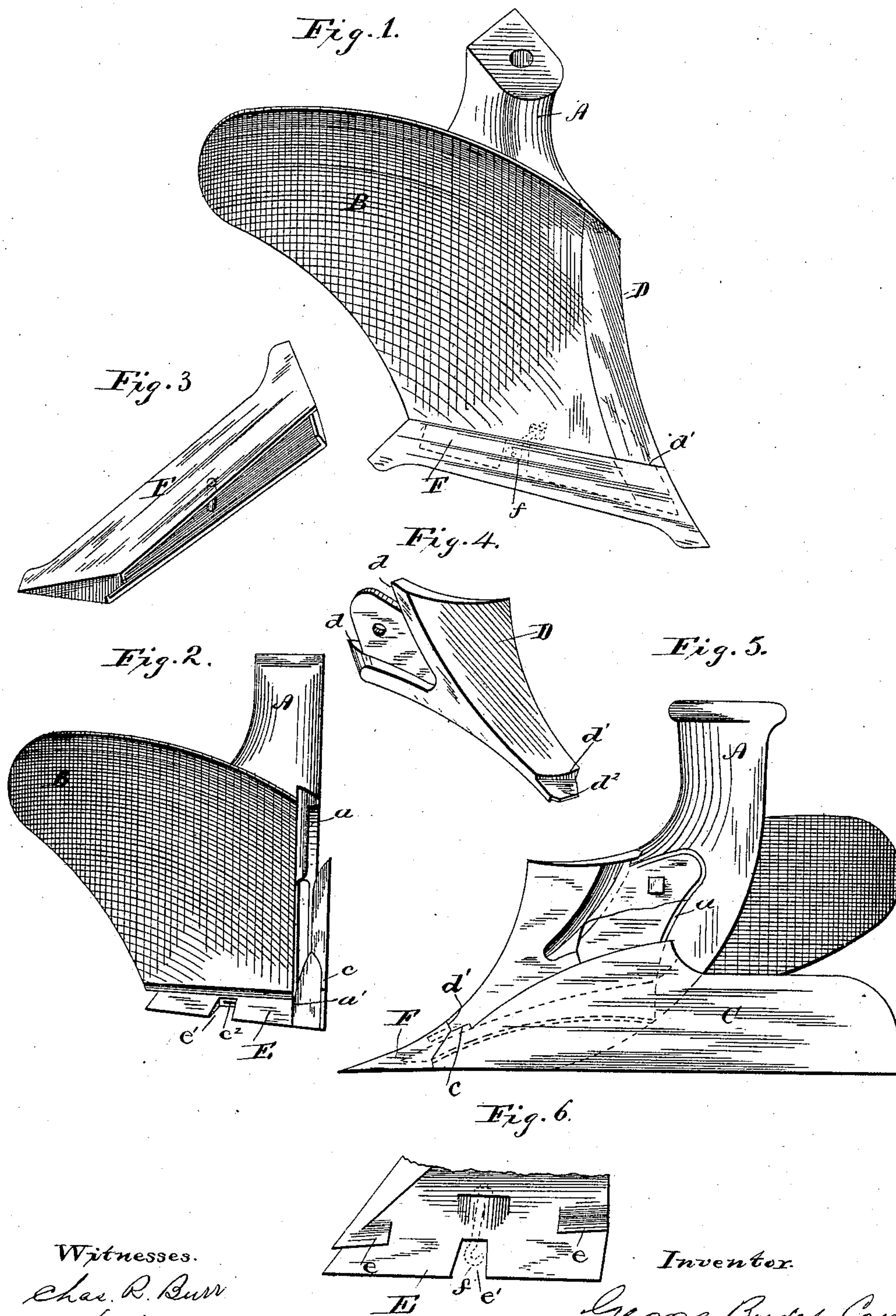
(No Model.)

G. B. CASADAY.

PLOW.

No. 321,189.

Patented June 30, 1885.



Witnesses.  
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# UNITED STATES PATENT OFFICE.

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## PLOW.

SPECIFICATION forming part of Letters Patent No. 321,189, dated June 30, 1885.

Application filed April 28, 1885. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE BURDET CASADAY, a citizen of the United States, residing in Hudson township, in the county of La Porte and State of Indiana, have invented certain new and useful Improvements in Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain improvements in plows having reversible combined wings and points.

It consists in providing a plow with a hollow reversible combined wing and point having opposite corresponding wearing faces and points, the bearing by which it is secured to the standard being entirely independent of said wearing faces, said combined wing and point being adapted to be used with an ordinary mold-board or with a mold-board and reversible shin or cutter.

The particular construction and arrangement of the various parts of my invention I will now proceed to point out and describe, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective of a plow provided with my improvements. Fig. 2 is a front elevation with the reversible parts removed. Fig. 3 is a perspective of the combined wing and point; Fig. 4, a perspective of the reversible cutter. Fig. 5 is a side elevation; Fig. 6, a detail.

Referring to said drawings, A is the standard; B, the mold-board; C, the landside; D, a reversible shin or cutter having two opposite cutting-edges and wearing faces.

$d d$  are opposite and corresponding V-shaped shoulders on the upper part of the cutter, between the diverging ends of its opposite faces.

$a$  is a V-shaped shoulder or bearing on the upper part of the standard, corresponding in form to the shoulders  $d d$  on the cutter.

$a'$  is a groove in the standard, corresponding in shape to the wearing faces of the cutter and located between the mold-board and landside. When adjusted the face of the reversible cutter not in use rests in the groove  $a'$ , and one

shoulder,  $d$ , engages with the bearing on the standard, and is secured to said standard by a suitable bolt, the wearing face of the cutter which is in use forming a continuation of the mold-board and the outer side forming a continuation of the landside, the upper edge of which conforms to the curve of the cutter.

$d' d'$  are correspondingly-shaped shoulders on the lower ends of the opposite faces of said cutter, and  $d''$  is a bearing projecting from the shoulders  $d' d'$ . When in position, the shoulder on the face not in use engages with a shoulder,  $c$ , on the lower forward part of the landside. The bearing  $d''$ , resting in the lower end of groove  $a'$ , and projecting under the combined wing and point, is securely held in place by said combined wing and point, the shoulder  $d'$  on the face in use forming a continuation of and being in a straight line with the lower line of the mold-board.

E is a wedge-shaped wing bearing on the lower part of the standard, extending from the point to the rear end of the lower line of the mold-board.  $e e$  are shoulders on the under side of the wing-bearing, the lower line of the mold-board and one of the shoulders  $d$  forming a shoulder on the upper side of said wing-bearing the same distance from its edge as the shoulders  $e e$ .  $e'$  is a notch about midway in the bearing E.  $e''$  is a bolt-hole.

F is a hollow reversible combined wing and point having two opposite corresponding wearing faces converging and continued to a common edge, and two opposite and corresponding points. Said combined wing and point fits upon the wing-bearing E, rests against and forms a close joint with the lower lines of the mold-board and cutter.

$f$  is a hook-bolt fastened to the inside of the hollow wing and point, and, passing through the bolt-hole  $e''$ , secures the said wing and point on its bearing by a suitable nut.

This construction is simple and very strong. The bearings are all independent of the wearing faces of the reversible parts, and are not affected by any wear on said faces, thus producing a plow which always has close and accurately-fitting joints for its reversible parts. This is a great advantage over plows in which



the face not in use is made to act as a bearing by means of which the reversible part is secured to the body of the plow.

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

1. In a plow, a hollow reversible combined wing and point having two opposite corresponding and converging wearing faces continued to a common edge, and two opposite  
10 and corresponding points, substantially as shown and described.

2. In a plow, the combination, with a standard and mold-board, of a hollow reversible  
15 combined wing and point fitted upon a wing-bearing on the standard, and having two opposite corresponding wearing faces and points, substantially as shown and described.

3. In a plow, the combination, with the  
20 standard and mold-board, of a removable cutter secured to the standard and a hollow reversible combined wing and point fitted on a wing-bearing on the standard, having two

opposite corresponding wearing faces and points, and operating when secured in place  
25 to engage with the lower end of the cutter and lock the same in position, substantially as shown and described.

4. In a plow, the combination, with the standard and mold-board, of a reversible cut-  
30 ter secured to the standard and having two opposite and corresponding faces and cutting-edges, and a hollow reversible combined wing and point fitted upon a wing bearing on the standard, having two opposite corresponding  
35 wearing faces and points, and operating when in position to engage with the lower end of the reversible cutter and lock it in place, substantially as shown and described.

In testimony whereof I affix my signature  
40 in presence of two witnesses.

GEORGE BURDET CASADAY.

Witnesses:

G. S. DRULINER,  
JAS. CURTIN.