

(No Model.)

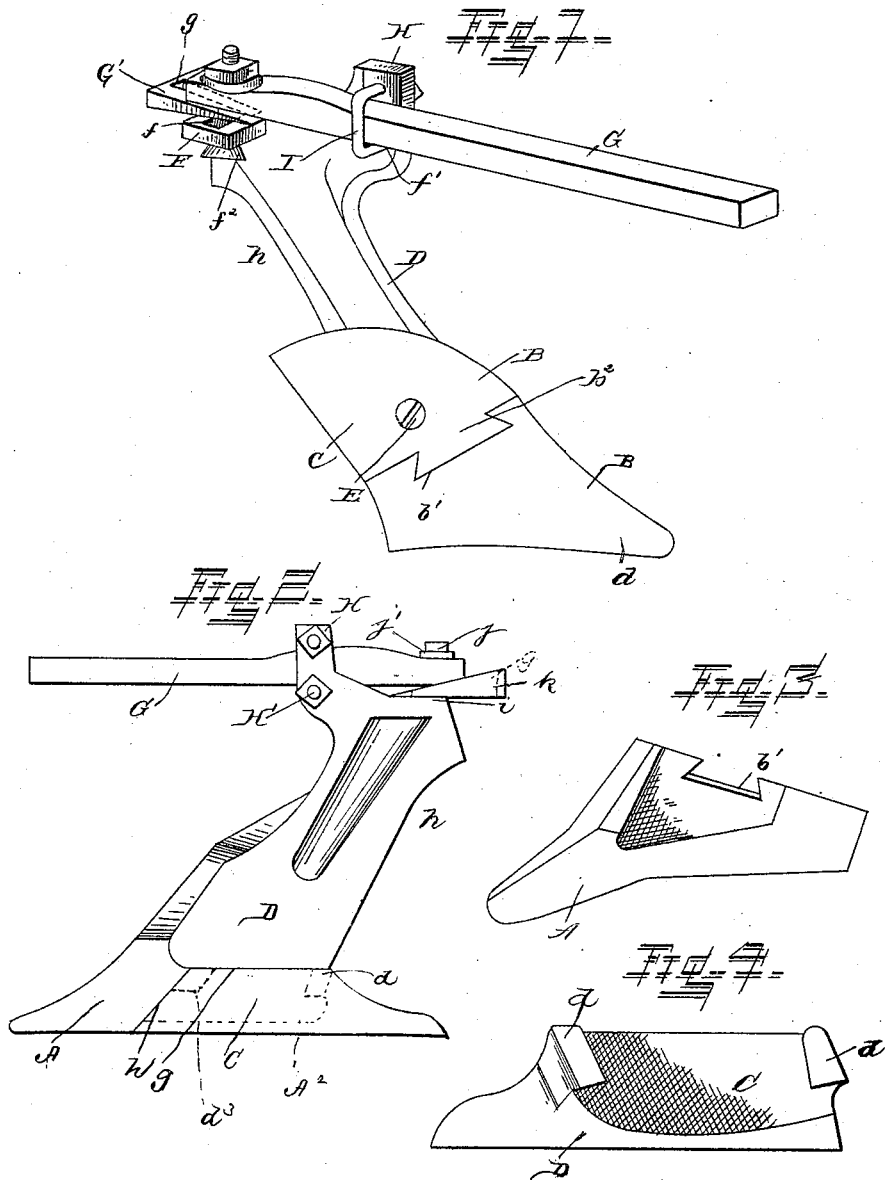
2 Sheets—Sheet 1.

J. W. CARR.

PLOW.

No. 345,113.

Patented July 6, 1886.



WITNESSES.

Howard J. Schindel.  
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(No Model.)

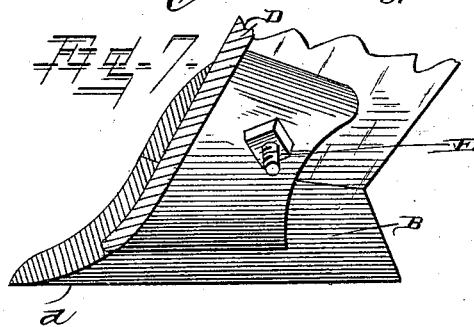
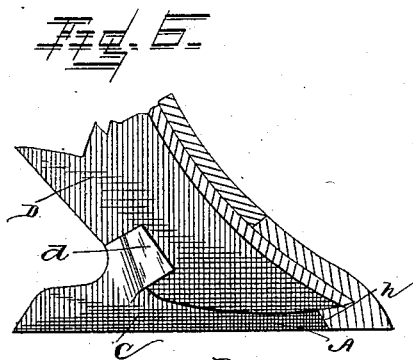
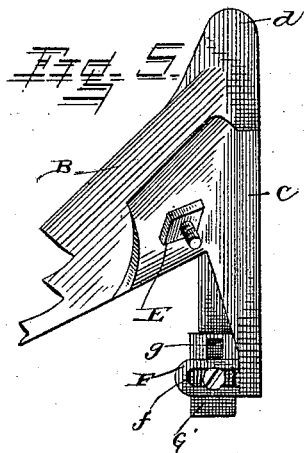
2 Sheets—Sheet 2.

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PLOW.

No. 345,113.

Patented July 6, 1886.



WITNESSES:

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INVENTOR:

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# UNITED STATES PATENT OFFICE.

JAMES W. CARR, OF RICHMOND, VIRGINIA.

## PLOW.

SPECIFICATION forming part of Letters Patent No. 345,113, dated July 6, 1886.

Application filed February 4, 1886. Serial No. 190,818. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES W. CARR, a citizen of the United States of America, residing at Richmond, in the county of Henrico and State of Virginia, have invented certain new and useful Improvements in Plows, of which the following is a specification, reference being had therein to the accompanying drawings:

My improvement in plows consists in the peculiar construction, combination, and arrangement of its parts, substantially as hereinafter more fully shown and described.

In the accompanying drawings, Figure 1 is a perspective view of my improved plow. Fig. 2 is a side elevation of its reverse side. Fig. 3 is a rear elevation of the plow-point. Fig. 4 is a similar view of the landside. Fig. 5 is a bottom plan view of my invention; and Figs. 6 and 7 are sectional views taken on the line *x x*, Fig. 5, looking in opposite directions.

The object of my improvement in plows is, partly, to attain greater simplicity in construction, and in accomplishing this purpose the mold-board and landside are rigidly locked together and secured to the standard with a single bolt; and also to enable the ready elevation and depression of the plow-beam where fastened to the standard, and thus to render adjustable the depth to which the plow-point may enter the soil, and also to provide means for adjusting the width of the furrow as may in practice be desired.

In carrying out my invention I employ the inclined plow-standard A, which is provided on one side near its center with an outwardly-projecting flange or shoulder, *a*, which extends downwardly to the extreme end of said plow-standard, and the junctions of the two parts at the outer lower end form a point, *d*. This flange or shoulder *a* is apertured at a point slightly above its center for passage therethrough of a bolt, hereinafter referred to.

B is a plowshare, which on its inner surface is made to conform in general outline to the outer surface of the lower portion of the flange or shoulder *a* of the plow-standard A, and is provided with a usual pointed projection on its extreme outer end. The said plowshare has a portion of its inner surface removed, forming a recess, *b*, which is extended into a second narrow recess, *b'*, in which latter recess the outer end of the inclined plow-

standard is designed to fit. In the upper inclined face of the plowshare is formed a mortise-recess, *b'*, which slants outwardly from the inner surface of the said plowshare.

C is a mold-board, which is provided on its lower inclined face with a tenon, *b''*, corresponding to the mortise-recess *b'*, formed in the corresponding-shaped face of the plowshare. The upper edge of mortise *b'* and the entire upper edge of plowshare A are beveled to incline from front to rear, to conform to a coincident bevel inclined from front to rear on tenon *b* and the entire lower edge of the mold-board C. The landside D, secured to the side of the inclined plow-standard opposite to that portion whereon the plowshare and mold board are secured, has projecting from its inner surface, a short distance from its rear end, an inclined hook, *d*, and at its forward end is provided with a lug or projection, *d'*, the purpose of which will be further referred to. The lower inclined surface of the plowshare is at its rear provided with an inclined recess, *d''*, and at its forward end in its surface a recess, *d'''*, corresponding to the outer surface of the forward lug or projection, *d'*, and the inclined hook *d* is inclined on the inner surface to conform to the inclined recess *d''*, in which it is secured. The upper edge of the landside abuts against a shoulder, *g*, formed in the plow-standard, and its forward edge is outwardly inclined to conform to inclination *h* of the rear side of the plowshare. The mold-board C is provided near its central lower portion with an aperture corresponding to the before-referred-to aperture of the flange or shoulder *a*, and through these apertures is passed from the outside a nutted bolt, E, the nut thereof resting against the inner surface of the flange or shoulder *a*. From this it will be seen that by inserting the tenon of the mold-board in the mortise-recess of the plowshare and inserting the outer end of the plow-standard in the recess *b'* of the plowshare, and securing the landside in position, as above indicated, by means of its hook *d* and the lug or projection *d'*, secured in position in the recess *d'''* by the plowshare A, and passing the bolt E through its apertures in the mold-board and the flange or shoulder of the plow-standard, all the parts will be rigidly secured in position by tightening the bolt by means of its

nut. The inclined plow-standard A is provided at its upper rear end with a right-angul-  
 5 F, which is provided in its center with a lon-  
 10 gitudinal slot, *f*. The rear end of the plow-  
 beam G has formed in its center a vertical  
 slot or passage for passage therethrough and  
 through the longitudinal slot *f* of the flange or  
 15 shoulder F of a nutted bolt, *f*<sup>2</sup>, which is passed  
 upwardly from in under the flange or shoul-  
 der, and its nut rests upon a washer on the  
 upper surface of the said plow-beam.

G' is an oblong wedge provided in its cen-  
 15 ter with a longitudinal slot, *g*, extending nearly  
 its entire length. This wedge G' is inserted  
 between the flange or shoulder F and the plow-  
 beam, and is placed in position before the in-  
 20 sersion of the nutted bolt *f*<sup>2</sup>, which is also  
 passed through the said slot of the wedge. The  
 upper forward edge of the inclined plow-stand-  
 ard is provided with a forward upwardly-pro-  
 25 jecting right-angular arm, H, having two ori-  
 fices therein formed for passage of the ends of  
 a clip, I. The ends of this clip are passed  
 over and in under the plow-beam and through  
 the orifices in the right angular arm H, and  
 are on their screw-threaded ends provided  
 with suitable nuts for securing the clip in po-  
 30 sition.

From the foregoing it will be seen that by  
 35 inserting or withdrawing the slotted wedge G'  
 in degree more or less the plow-beam can be  
 adjusted correspondingly, thus regulating the  
 depth of the furrow to be made by the plow-  
 point, and that by laterally adjusting the rear  
 end of the plow-beam by means of its bolt in  
 the longitudinal slot in the flange or shoulder

F and the nutted clip I the width of the fur-  
 row can be accordingly regulated.

Thus constructed the mold-board, landside, 40  
 and plow-point are held rigidly secured with  
 a single bolt, the plow-beam may be elevated  
 or depressed to suit the character of the work  
 or soil, and the point of the plow may be so  
 presented to the land as to form a furrow of 45  
 any width preferred.

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

1. In a plow, the combination, with the in- 50  
 clined standard having the apertured flange or  
 shoulder, of the apertured mold-board and  
 plowshare, connected together by a tenon, and  
 the landside having a clamp-hook, and a lug  
 or projection, the whole secured together by 55  
 a single-nutted bolt, substantially as shown  
 and described.

2. The combination, with the inclined plow-  
 standard having the apertured flange or shoul- 60  
 der and the landside having a clamp-hook en-  
 tering a corresponding recess in said standard,  
 and with a lug on its forward end, of the plow-  
 share having one portion supporting the for-  
 ward end of said landside, the apertured mold-  
 board having a tenon on one end secured in a 65  
 recess in said plowshare, and the nutted bolt  
 securing said parts together, substantially as  
 shown and described.

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

JAMES W. CARR.

Witnesses:

T. M. CARR,

R. W. JENKENS.