

(No Model.)

J. W. DAVIS.

PLOW.

No. 303,990.

Patented Aug. 26, 1884.

Fig. 1.

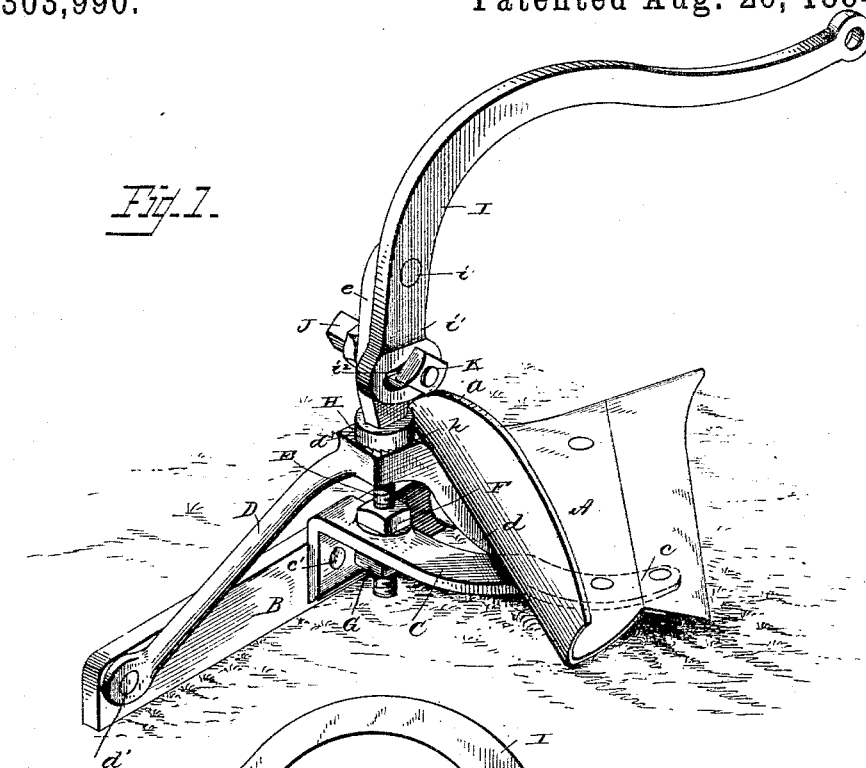


Fig. 2.

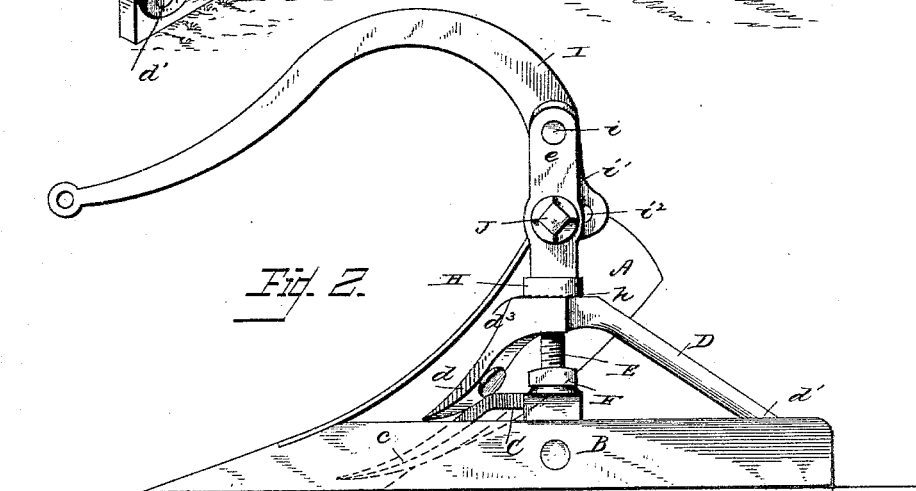
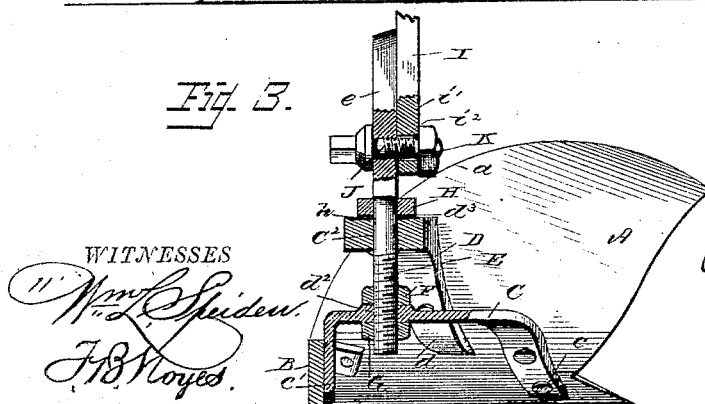


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

JOHN W. DAVIS, OF FAIRFAX, IOWA, ASSIGNOR TO HIMSELF AND JOHN W. FIRKINS, OF SAME PLACE.

PLOW.

SPECIFICATION forming part of Letters Patent No. 303,990, dated August 26, 1884.

Application filed May 31, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. DAVIS, a citizen of the United States, residing at Fairfax, in the county of Linn and State of Iowa, have
5 invented certain new and useful Improvements in Plows; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to
10 make and use the same.

This invention relates to that class of plows in which the beam is adapted to be adjusted to regulate the elevation of its front end; and its object is to provide simple and improved
15 means for securing the standard to the mold-board and landside, and for effecting a convenient and secure adjustment of the beam upon the standard.

To this end my invention consists substantially in providing suitable braces connecting the mold-board and landside, through which
20 braces the standard passes and is secured, and in pivoting the beam to the top of the standard, suitable devices being provided upon the latter to secure the lower end of the beam below the pivot in the position to which it has
25 been adjusted, as will be hereinafter more fully set forth.

In the drawings, Figure 1 is a perspective view illustrating my invention. Fig. 2 is a side elevation. Fig. 3 is a vertical transverse
30 sectional view taken on the plane of the standard.

Corresponding parts in the figures are denoted by the same letters of reference.

Referring to the drawings, A designates the mold-board, and B the landside, which parts may be of any suitable construction.

C is a transverse brace secured to the lower
40 portion of the rear face of the mold-board, and near the outer edge thereof, as shown at *c*, and from thence extending across to about the center of the landside, and secured thereto, as shown at *c'*.

D designates another angular brace, which is secured to the rear face of the mold-board at its front end, *d*, and has its rear end, *d'*, secured to the rear end of the landside. This brace D is arched or formed so that it extends over the
50 transverse brace C, and the said braces are

thus relatively disposed at an angle to each other. Suitable openings or perforations, *e* and *e'*, are respectively provided in the braces and on the same vertical plane, which openings receive the standard E, as shown. The lower
55 portion of the standard, which passes through the brace C, is screw-threaded, and receives two nuts, F and G, working, respectively, above and below the brace C, and serving to retain the standard down in position. A collar, H, is
60 provided on the standard at a point just above the brace D, and has its undersurface provided with radial serrations *h*, which engage corresponding serrations, *h'*, on the top face of the brace D. By this arrangement, when the stand-
65 ard is drawn down by the action of its securing-nuts, these serrations are brought into engagement, and the standard is secured in position and against accidental vertical movement or turning. The standard is provided with a top
70 flat portion, *e*, to which is pivoted the beam I, as shown at *i*. The rear end, *i'*, of the beam extends some distance below this pivot, and is provided with a segmental slot, *i''*, which receives a transverse screw-bolt, J, working
75 through the top portion of the standard. Upon the inner end of this screw-bolt is provided a clamp-nut, K, which binds against the face of the beam, and retains it in the position to which it has been adjusted. By operating the
80 screw-bolt the nut may be loosened sufficiently to permit of the adjustment of the beam upon its pivot, after which the bolt is again screwed up to clamp the nut against the beam. The nut K is secured against rotary movement dur-
85 ing the operation of the bolt J by its engagement with the top edge, *a*, of the mold-board, the relative arrangement being such that when the standard is drawn down and secured by the nuts F and G the edge of the nut K is locked
90 into engagement with the top edge of the mold-board, as illustrated in Fig. 1 of the drawings.

The operation and advantages of my invention will be readily understood from the foregoing description and annexed drawings. The
95 construction is simple, and permits of the convenient and ready adjustment of the beam. It is obvious that my invention is adapted for application to various kinds of plows, either walking or sulky plows, and that it is suscep-
100

tible of regulation for one, two, or any other desired number of horses.

In my invention the regulation of the depth of cut is readily and conveniently effected by simply adjusting the rear end of the beam, in lieu of adjustment of the draft at the front end of the beam, as heretofore done, and the improved arrangement serves to materially lessen the draft.

10 I claim as my invention—

1. The combination, in a plow, of the mold-board, the standard, adjustable devices for removably securing the standard in position, the beam pivoted to the top of the standard, and 15 having the end slot, the adjusting-bolt passing through the standard and through this slot, and the clamp-nut engaging the edge of the mold-board when the standard is secured down in position, substantially as set forth.

20 2. The combination, in a plow, of the mold-board, suitable braces having perforations, the

standard having a screw-threaded portion passing through these perforations, securing-nuts upon the standard, the beam pivoted to the standard and having the segmental slot, 25 the transverse adjusting-bolt, and the nut thereon, substantially as and for the purpose set forth.

3. The combination of the mold-board and landside, braces connecting the same and provided with perforations, one of the braces being provided with a serrated face, the standard passing through said perforations and having the serrated collar, and devices for securing the standard to the braces, substantially as set 35 forth.

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

JOHN W. DAVIS.

Witnesses:

W. D. DODGE,

E. LEFEBURE, Jr.