

(No Model.)

J. B. LAW.
FLOW GAGE.

No. 315,799.

Patented Apr. 14, 1885.

fig. 1.

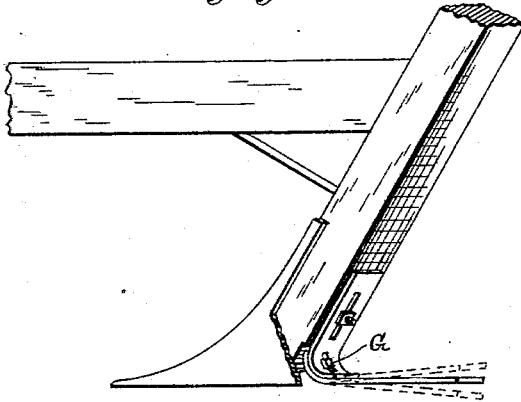


fig. 2.

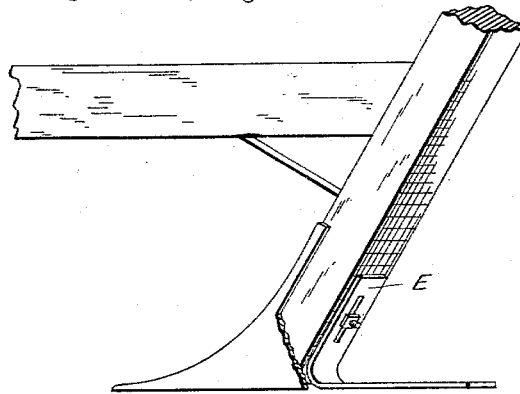
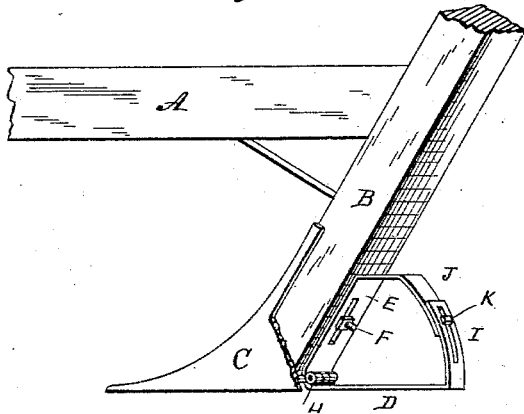


fig. 3.



WITNESSES:

Harrison B. Brown
W. K. Stevens

INVENTOR:

J. B. Law
BY *Munn & Co*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JAMES BRADLEY LAW, OF DARLINGTON, SOUTH CAROLINA.

PLOW-GAGE.

SPECIFICATION forming part of Letters Patent No. 315,799, dated April 14, 1885.

Application filed August 9, 1884. (No model.)

To all whom it may concern:

Be it known that I, JAMES B. LAW, a citizen of the United States, residing at Darlington, in the county of Darlington and State of South Carolina, have invented certain new and useful Improvements in Plow Gages and Guides, of which the following is a description.

The object of this invention is to provide a gage whereby the depth of plowing may be regulated and a guide whereby the slant or pitch of the plowshare may be directed to raise or throw the earth more or less from the furrow.

To this end my invention consists in the construction and combination of parts forming a plow gage and guide, hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of a plow, showing the principal form of my invention, and Figs. 2 and 3 show modifications of the same.

A represents the beam of the plow.

B is the post secured to the rear end of the beam to support the plowshare C and the handles. (Not shown.)

D is the shoe of my gage and guide. This shoe is intended to run on the ground at the bottom of the furrow.

E is the shank by which the shoe is secured to the plow. This shank has a straight parallel-sided body to fit against the post of the plow, and it is slotted to receive a bolt, F, which may be the bolt holding the plowshare to the post. By means of this slot the gage may be raised or lowered, so as to permit the plow to run shallower or deeper into the ground. I prefer joining the shoe with its shank as follows: The lower end of the shank is formed into the arc of a circle, extending downward and backward enough to become tangent to a horizontal line and turn up a little at the rear, as shown in Fig. 1. The forward end of the shoe is similarly curved to fit outside of and below the curved end of the shank, to which it is adjustably secured by means of a bolt, G, passing through a slot in the shoe and through a hole in the shank. By this means the shoe may be raised or lowered at its rear end, as shown in dotted lines, while the forward end remains fixed, thus giving the plow any desired pitch.

In the modification shown in Fig. 2 the

shank and shoe are in one piece, which may be raised or lowered, as in Fig. 1; but in order to fix the pitch as desired the angle of juncture must be changed by bending the iron.

The modification shown in Fig. 3 is an equivalent of the joint shown in Fig. 1. The two parts are joined by a hinge, H, which keeps them in the same angular relation to each other, as shown in Fig. 1. To this is added a bracing device consisting of the slotted arc I, adapted to swing tangent to the arm J of the shank at that point thereof in which a bolt, K, is fixed to engage the slot in the arc I to hold it at any point desired.

I am aware that a gage and guide similar to mine has been patented to Wm. H. Ammons, No. 291,662; but his shoe is provided with a curved joint, which is nearly parallel with the plow-post, so that in changing the pitch of the shoe the forward end thereof is raised or lowered, so that the depth of plowing is also changed. This involves a considerable experimenting on the part of the operator to get the plow set again at the same depth as before, for both his shoe and wedge must be adjusted for every change that is made, whereas my shoe may be set at the desired pitch without altering the shank; or the height of the device may be at any time changed by means of the shank without altering the pitch of the shoe.

The curve of my joint is tangent to or nearly parallel with the ground, while the curve of his joint could not be extended to become in any respect parallel with the ground without so changing the principle of his device as to involve my improvement.

My joint is practically a hinge at the lower end of the shank and forward end of the shoe.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination, in a plow gage and guide, of the two sections D and E and the hinge H and bolt K, joining them, the section D being slotted for the passage of the bolt K, and the section E being slotted for attachment to and vertical adjustment upon a plow-standard, B, substantially as shown and described.

JAMES BRADLEY LAW.

Witnesses:

J. S. GAMER,
J. W. EVANS.