

No. 647,689.

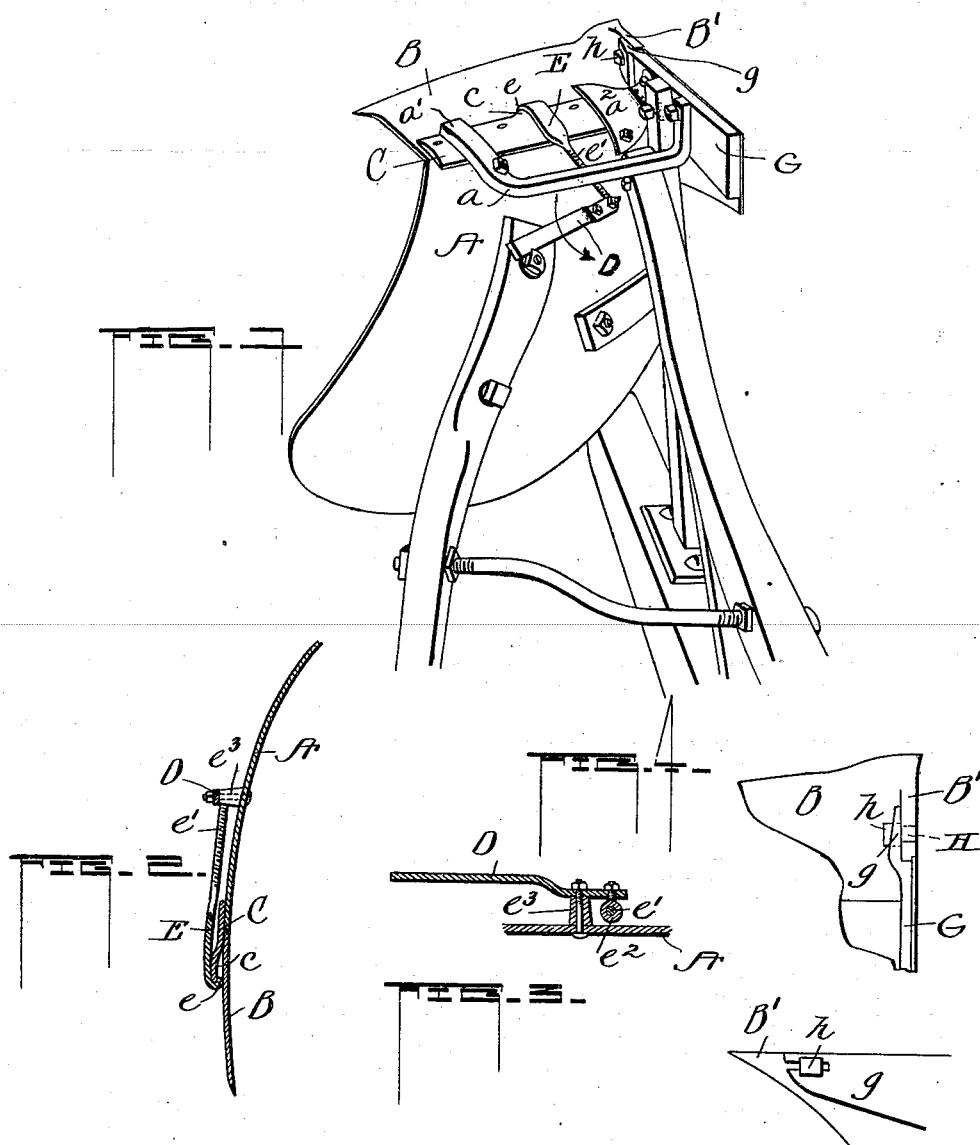
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Patented Apr. 17, 1900.

PLOW.

(Application filed Oct. 19, 1899.)

(No Model.)



Witnesses:
Chas. M. Porto
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FIG. 5.
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Att'y.

UNITED STATES PATENT OFFICE.

JAMES G. BAILEY AND HARRY CHENEY, OF DELAVAN, ILLINOIS.

PLOW.

SPECIFICATION forming part of Letters Patent No. 647,689, dated April 17, 1900.

Application filed October 19, 1899. Serial No. 734,050. (No model.)

To all whom it may concern:

Be it known that we, JAMES G. BAILEY and HARRY CHENEY, citizens of the United States, residing at Delavan, in the county of Tazewell and State of Illinois, have invented certain new and useful Improvements in Plows; and we 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 make and use the same.

Our invention relates to certain new and useful improvements in plows, by means of which a very material convenience is added thereto.

More particularly our invention relates to means applied to a ground-plow to facilitate in the attachment and removal of the plow-share.

Our invention consists, essentially, of a plate attached to the plowshare and overlapping the moldboard, an adjustable hooked bar adapted to engage the plate, a pivoted lever connected with the hooked bar, a slot formation and tapering forward end of the landside-frame or landside-bar, and a lug provided with a tapering head, all of said parts so placed and combined in operation to best accomplish the desired result, as will hereinafter be more fully explained in detail.

That our invention may be more fully understood, reference is had to the accompanying drawings, in which—

Figure 1 is a perspective view showing a plow with my improvement applied. Fig. 2 is a sectional view through the share and moldboard, showing the application of the plate to the share and moldboard and the manner in which the hooked bar engages the plate. Fig. 3 is a detailed sectional view showing the manner of pivoting the lever and its connection with the hooked bar. Figs. 4 and 5 are detailed views showing the lug and slot connections of the share with the landside frame or bar.

In the drawings similar letters refer to similar parts throughout all of the figures.

As previously stated, the object of our invention is to provide a simple and convenient means of attaching and detaching a plow-share, and its usefulness and advantages will be well understood by those familiar with the

present slow and inconvenient manner of attachment and detachment of same, which involves the placing or removal of a number of small bolts, the heads thereof facing upon the surface of the share, necessitating, therefore, the most careful adjustment. The work of placing and removing the share in the old way involved the necessity of turning the ordinary walking-plow upside down and with a riding-plow the getting down practically underneath it, and in either case the working at great disadvantage. With our invention applied to a plow we are able to remove or place the share in the simplest possible manner, quickly, securely, and easily.

In carrying out our invention we provide the plate C, which is securely and permanently riveted to the share at the abutting edge of the share, with the moldboard A and overlapping the same sufficiently and in such a manner that when the share is placed in proper position in connection with the plow the plate will bear upon the moldboard in the manner shown in the drawings. The plate C is raised slightly from the share to form the pocket *c*, as best shown in Fig. 2. The landside frame or bar G is provided with an offset at its forward end and is tapered off, as at *g*, and slotted, as shown. Share-heel B' is adapted to bear up against the offset and against the face of the extension *g*.

H, as shown in Fig. 1, is a lug set in the heel of the share and provided with a head *h*, tapered to match the tapered face of extension *g*, so that in placing the share the lug is pushed into the slot, and the tapered head *h*, meeting the tapered face of extension *g*, causes the share-heel B' to be drawn flush with the landside-plate and the edge of the share in perfect matching relation with the edge of the moldboard and in readiness to be securely fastened.

The means we provide for securing and holding the share in proper working position consists of the bar E, provided with the hook *e*, adapted to engage the plate C at the raised point and to be seated in the pocket *c*, and the threaded extension *e'*.

D is a lever supported on the stud *e*³ and pivoted thereon by means of a bolt, as shown in Fig. 3.

*e*² is a hanger pivoted and secured to the

short arm of the lever D and is threaded to receive the threaded extension e' from bar E.

By means of the threaded extension e' , engaging the threaded hanger e^2 , the bar E may be properly adjusted to facilitate the firm locking of the share to the plow.

By means of the bar E, engaging the plate C and its connection with the lever D, the share B may be firmly locked in place by simply pushing the lever in the opposite direction from the course of the arrow, as shown in Fig. 1, and lodging it in the notch in the nut, as shown.

a' is a bar secured to the frame or bar G and to the moldboard, as shown, with forward end bearing in over plate C, which serves as a guide for placing the share in position and also as an aid in holding the share firmly in place at its outer end. a^2 is also a plate serving the same purpose near the other end of the share.

When it is desired to detach the share, the lever D is detached from the notch in the nut, and by moving it in the direction of the course of the arrow the bar E will be thrown forwardly and the hook e will be withdrawn from its seat in pocket c , thus releasing the share, which may then be detached by drawing the same forwardly until the lug H is free from the slot in the extension g .

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

1. In a plow, the combination with the share thereof of the plate C, provided with the raised portion c , thereof of the hooked bar E, adapted to engage the share at the raised portion of the plate and means for reciprocating the said bar for the purpose of engaging or releasing the share, all substantially as described and shown.

2. In a plow, the combination with the share thereon provided with the plate C, having the raised portion c , thereof of the hooked bar E, adapted to engage the share at the raised portion of the plate C, the pivoted lever D, connected with said bar adapted to reciprocate and lock the same, all substantially as described and shown.

3. In a plow, the combination with the mold-board A, and with the landside-frame G, provided with the tapered and slotted forward end g , of the share B, provided with the plate C, and with the lug H, having the tapered head h , and means for engaging the share for the purpose of holding it firmly in place all substantially as described and shown.

4. In a plow, the combination with the mold-board A, and with the landside-frame G, provided with the tapered and slotted forward end g , of the share B, provided with lug H, provided with tapered head h , and plate C, attached to the share and provided with a notch or pocket in its lower edge, the reciprocating bar E, provided with a hook at one end and the other end thereof threaded and the pivoted lever D, provided with the attached threaded hanger e^2 , all substantially as described and shown.

5. In a plow, the combination, with the mold-board A, and the landside-frame G, provided with the tapered and slotted forward end, the brace-bar a , having the extension a' , and the plate a^2 , of the share B, provided with lug H, having the tapered head h , the plate C, attached to the share and provided with the pocket c , therein, the reciprocating bar E, provided with the hook e , and the threaded end e' , and means for reciprocating said bar consisting of the pivoted lever D, provided with the threaded hanger e^2 , engaging the threads on the bar, substantially as specified.

6. In a plow, the combination with the share B, thereof provided with the plate C, having the raised portion c , thereon of the reciprocating bar E, provided with the hook e , and the threaded extension e' , and means for reciprocating said bar consisting of the pivoted lever D, connected with said bar by means of the threaded hanger e^2 , all substantially as described and shown.

In testimony whereof we affix our signatures in presence of two witnesses.

JAS. G. BAILEY.
HARRY CHENEY.

Witnesses:

D. G. BAILEY,
W. H. PAWSON, Jr.