

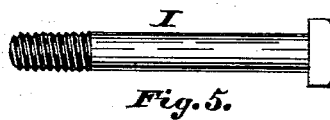
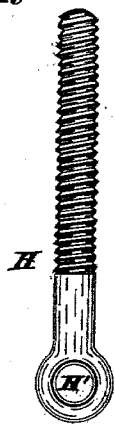
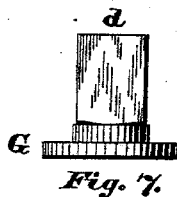
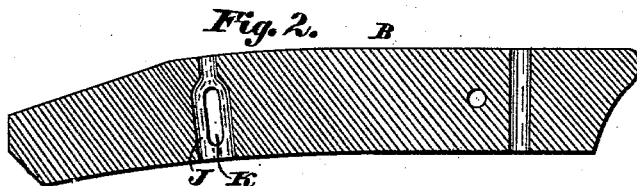
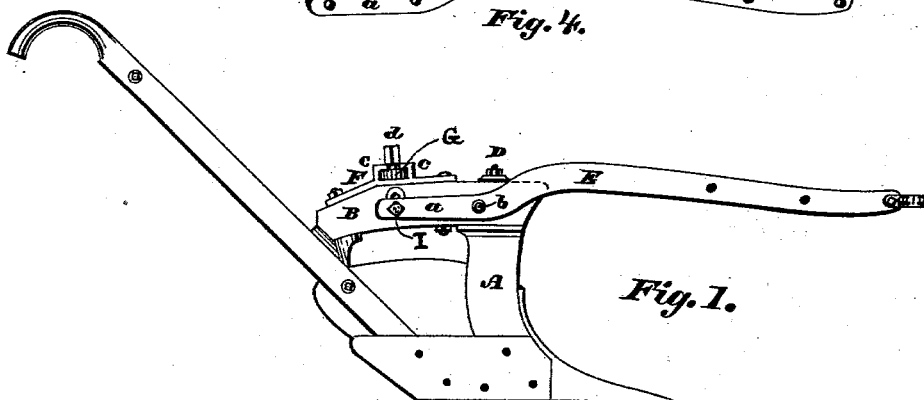
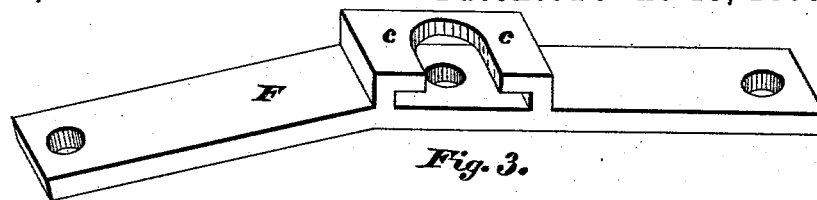
(No Model.)

L. D. BALL & J. T. BENDER.

PLOW.

No. 343,561.

Patented June 15, 1886.



WITNESSES
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UNITED STATES PATENT OFFICE.

LORENZO D. BALL AND JOHN T. BENDER, OF CANTON, OHIO.

PLOW.

SPECIFICATION forming part of Letters Patent No. 343,561, dated June 15, 1886.

Application filed October 5, 1885. Serial No. 178,994. (No model.)

To all whom it may concern:

Be it known that we, LORENZO D. BALL and JOHN T. BENDER, citizens of the United States, and residing at Canton, in the county of Stark and State of Ohio, 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 same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon, in which—

Figure 1 is a side elevation. Fig. 2 is a longitudinal section of the wood beam. Fig. 3 is a detached view of the retaining strap or bar. Fig. 4 is a detached view of the metal beam. Fig. 5 is a detached view of the adjusting and retaining bolt or bar. Fig. 6 is a detached view of the locking bolt or bar. Fig. 7 is a detached view of the operating nut or burr.

The present invention has relation to plows; and its nature consists in the different parts and combination of parts hereinafter described, and particularly pointed out in the claims.

Similar letters of reference indicate corresponding parts in all the figures of the drawings.

In the accompanying drawings, A represents the post or standard, to the bottom or lower portion of which are attached the land-side, mold-board, and shear in the ordinary manner. To the top or upper end of said standard is securely attached the front or forward end of the wood beam B, said wood beam being substantially of the form shown in Fig. 1. The rear end of this wood beam is attached to the brace or support C, substantially as shown in the drawings, and is so arranged that the wood beam, together with the metal beam, may be moved or adjusted in either direction laterally, said parts turning on the bolt D.

The metal beam E is substantially of the form shown in the drawings, and, as shown, it is provided with the side bars or arms, *a a*, which are so arranged as to fit the sides of the wood beam B.

To the front or forward end of the metal beam E is attached a clevis of any desired kind or style.

The metal beam is securely held to the wood beam B by means of the clamping-bolt *b*, which

passes through the arms or bars *a a* and the wood beam B.

To the top or upper side of the wood beam B is securely attached the retaining strap or bar F, which is located substantially as shown in Fig. 1, and is held in proper position by means of suitable clamping bolts or rivets. This retaining strap or bar F is provided with the shoulders or flanges *c*, which may be substantially of the form shown in the drawings, and are for the purpose of holding in proper position the nut or burr *d* by means of the collar or flange G. The nut or burr *d* is provided with a screw-threaded aperture, which is for the purpose of receiving and holding the locking bolt or bar H. The bottom or lower end of the locking bolt or bar H is provided with the eye *H'*, which is for the purpose of receiving and holding the adjusting and retaining bolt I. The aperture J is formed large enough to admit the eye *H'* to pass up into the aperture J as far as desired, the upper portion of said aperture being about the same in diameter as the diameter of the locking bar or bolt H. To the sides of the aperture J are located the slots K, which are for the purpose of permitting the adjusting and retaining bolt or bar I to move up or down, as may be desired.

It will be seen that by our peculiar arrangement the front or forward end of the metal beam E can be easily raised or lowered, as may be desired, and thereby adjust the plow proper to any depth desired, and at the same time said metal beam will be securely held in any desired position within the limits of the slots K by means of the collar or flange G and the retaining strap or bar F, provided with the shoulders or flanges *c*.

In use the metal beam E is placed in the position shown in Fig. 1, and the nut or burr *d* placed in the position shown in said Fig. 1, when the locking-bolt is passed up through the aperture J until it engages the nut or burr *d*, when said locking-bolt is raised by turning the nut or burr *d* until the eye *H'* comes in line with the slots K, when the retaining bolt or bar I is passed through the arms *a a*, the slots K, and the eye *H'*, when said bolt is held in proper position by means of an ordinary nut or burr.

Having now fully described our invention,

what we claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the beam B, provided with the retaining strap or bar F, having the shoulders or flanges *c*, of the nut or burr *d*, provided with the flange G, and the locking bar or bolt H, substantially as and for the purpose specified.

2. The combination, with the beam B, provided with the aperture J and slots K, and the locking bar or bolt H, provided with the eye H', and the bolt or bar I, of the beam E, having the arms *a a*, and the fulcrum-bolt *b*, passing through the arms *a a*, and beam B, intermediate of the ends of said arms, substantially as described.

3. The combination, with the beam B, provided with the aperture J and the slots K, of the locking bar or bolt H, provided with the eye H', and the bolt or bar I, substantially as and for the purpose specified.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

LORENZO D. BALL.
JOHN T. BENDER.

Witnesses:

FRED W. BOND,
JOSEPH FREASE.