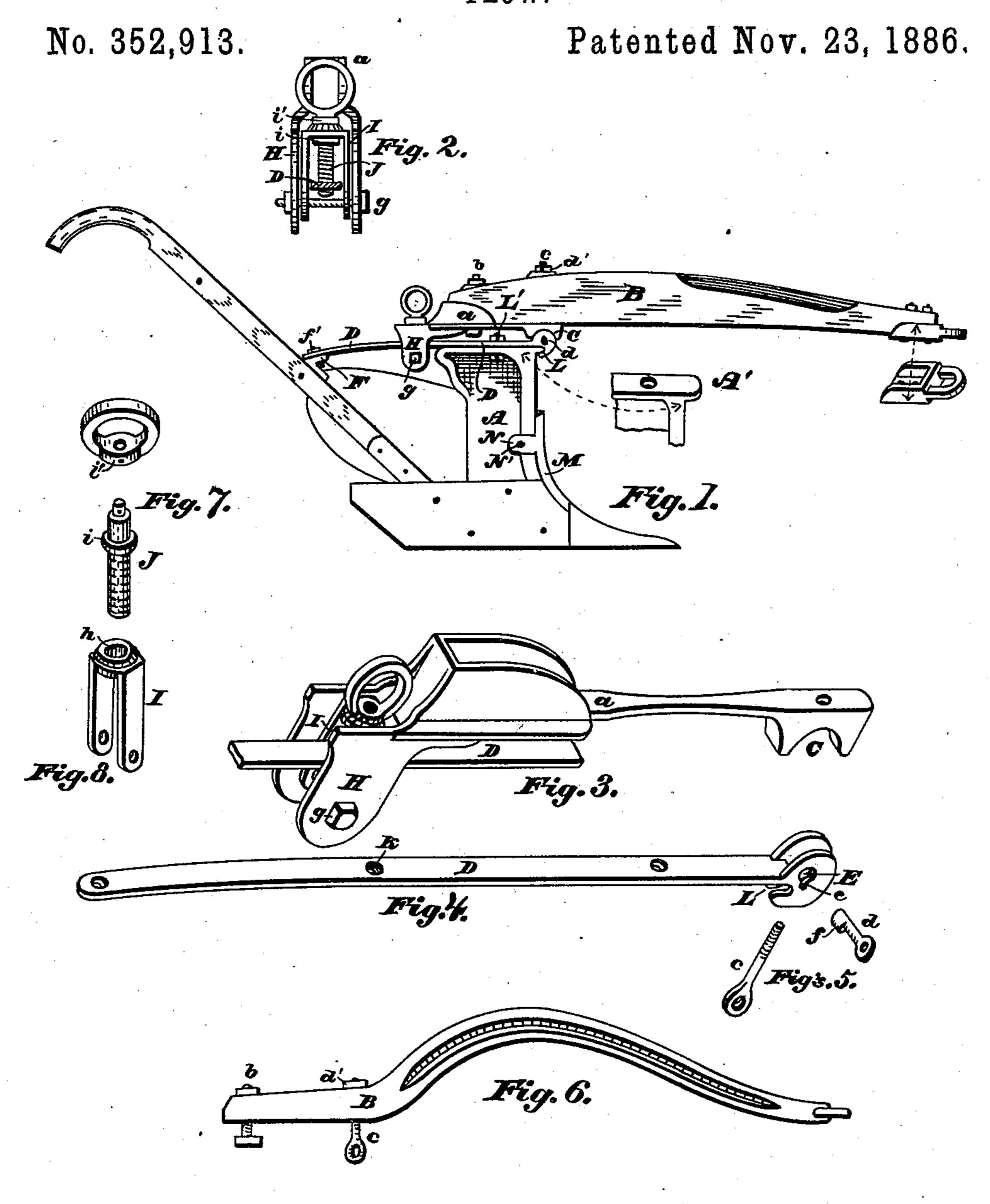
O. A. ESSIG.

PLOW.



WITNESSES:

Harry Frease. Harry B. Reed Ozia A. Essig, INVENTOR

Trud Wynd ATTORNEY

United States Patent Office.

OZIA A. ESSIG, OF CANTON, OHIO.

PLOW.

SPECIFICATION forming part of Letters Patent No. 352,913, dated November 23, 1886,

Application filed April 14, 1886. Serial No. 198,789. (No model.)

To all whom it may concern:

Be it known that I, Ozia A. Essig, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have 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 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 rear end view of the vertical adjusting device. Fig. 3 is a perspective view of the connectingbar, showing the adjusting screw and a portion of the adjusting bar properly located. Fig. 4 is a detached view of the adjusting bar. Fig. 5 are detached views of the hinge-connecting bolts. Fig. 6 is a detached view of the operating screw, showing its handle detached. Fig. 8 is a detached view of the hinged yoke.

The present invention has relation to the class of plows known as "rear adjusting;" 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 draw30 ings.

In the accompanying drawings, A represents the post or standard, which may be substantially of the form shown, to the bottom or lower end of which the mold-board, landside, and share are attached in any convenient and well-known manner.

The beam B, when formed of wood, may be substantially of the form shown in Fig. 1, and of the form shown in Fig. 6 when formed of 40 metal. To the rear end of the beam B is attached the connecting bar a by means of the clamping-bolt b. The front or forward end of |the connecting-bar a is provided with the recess c, which may be substantially of the form 45 shown in the drawings, and is for the purpose of réceiving the front or forward end of the adjusting-bar D, as shown in Fig. 1. The connecting-bar a and the adjusting-bar D are held securely together by means of the eyebolt c 50 and the cross-bar or pin d. The eyebolt c extends up through the beam B, as shown in Fig. 1, and is held in proper position by means |

of the nut d. The aperture E is provided with \cdot the recess e, which is for the purpose of permitting the fin f to pass through said aperture. 55 The eye in the eyebolt c is large enough in diameter to admit the cross-bar or pin d together with its fin f. It will be seen that by this peculiar arrangement the cross-bar or pin d will not be liable to become detached and 60 lost in the field by reason of any shrinkage of the plow-beam or accidental loosening of the eyebolt c; that before the eyebolt c can be detached the eye of the eyebolt must be flush or in line with the aperture E. The rear end of 65 the adjusting-bar D is attached to the brace or block F, being provided with the ordinary slot to provide a means of lateral adjustment. The rear end of the connecting-bar a is provided with the downward-projecting arms H, which 70 may be located substantially as shown in the drawings.

To the bottom or lower ends of the arms H is pivotally attached the yoke I, said yoke being located substantially as shown in Figs. 2 75 and 3, and is held in proper position by means of the bolt g or its equivalent. The top or upper end of the yoke I is provided with the aperture h, which receives the top or upper portion of the screw J, as shown in the draw- 80 ings, the aperture h being somewhat larger in diameter than the top or upper portion of the screw J, so as to allow said screw to rotate easily. The screw J is held in proper position with reference to the yoke I by means of the 85 collars or flanges i and i', the collar or flange i being formed separate from the body of the screw J, so that said screw can be properly adjusted, as shown in Figs. 2 and 3. The adjusting-bar D is provided with the screw- 90 threaded opening K, which receives the screw J, as shown in the drawings.

It will be seen that turning the screw J in one direction will raise the rear end of the connecting-bar a, carrying with it the rear end of the beam B, thereby depressing the front or forward end of the beam, and turning the screw J in the opposite direction will lower the rear end of the connecting bar a and the beam b, thereby raising the front or forward end of the beam B. It will be seen that by providing the hinge-yoke I the top or upper end of the screw J will be properly supported, and at the same time permit the rear ends of

the connecting bar a and the beam B to describe the required arc in raising and lowering. It will also be seen that by providing the yoke I, which embraces the adjusting bar

5 D, the beam b will be braced laterally. The front or forward end of the adjusting bar D is provided with the notch or recess L, which is for the purpose of embracing the front or forward edge or face of the post or standard A,

ro as shown in Fig. 1, thereby assisting in holding the adjusting bar D and the different parts attached to said adjusting bar in proper

position.

The adjusting-bar D is securely attached to the top or upper end of the post or standard A by means of the clamping-bolt L', which bolt forms a turning-point for the lateral adjustment of the plow-beam proper. The portion of the post or standard A embraced by the notch or recess L is rounding, as shown in detail, A', so as not to interfere with the lateral adjustment of the plow.

To the post or standard A is attached the cutter M, which may be adjusted substantially as shown in Fig. 1, and is held in proper position by means of the arm N, fitting in a

dovetail recess, and the bolt N'.

For shipping purposes it will be seen that the beam B can be easily detached from the post or standard A, thereby forming a knockdown plow. The notch or recess L, embracing the upper front edge of the post or standard A, will hold the beam B securely to said post or standard.

Having now fully described my invention, what I claim as new, and desire to secure by

Letters Patent, is—

1. The combination of the connecting-bar a, provided with the recess c, with the adjusting-bar D and the post or standard A, substantially 40 as and for the purpose specified.

2. In a plow, the connecting-bar a, provided with ears H, the yoke I, and adjusting-screw J, having flanges or collars i and i', substan-

tially as described.

3. The combination, in a plow, of the connecting-bar a, having ears H, the yoke I, screw J, having collars i i', the pivot-bolt g, and bar D, having threaded aperture K, substantially as described.

4. In a plow, the combination of the yoke I, the screw J, pivotal bolt g, connecting the yoke with the connecting-bar, and an adjusting-bar having a threaded aperture to receive bolt J, substantially as described.

5. The combination of the beam B, hinge connecting-bar a, standard A, and adjusting-bar D with the yoke I and adjusting-screw J, constructed and operated substantially as specified.

6. The combination, with the beam B, connecting-bar a, provided with the recess C, and the adjusting-bar D, with the eyebolt c and the cross-bar or pin d, provided with the fin f, of the aperture E, provided with the recess e, 65 substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence

of two witnesses.

OZIA A. ESSIG.

Witnesses:
L. C. Wise,
Fred W. Bond.