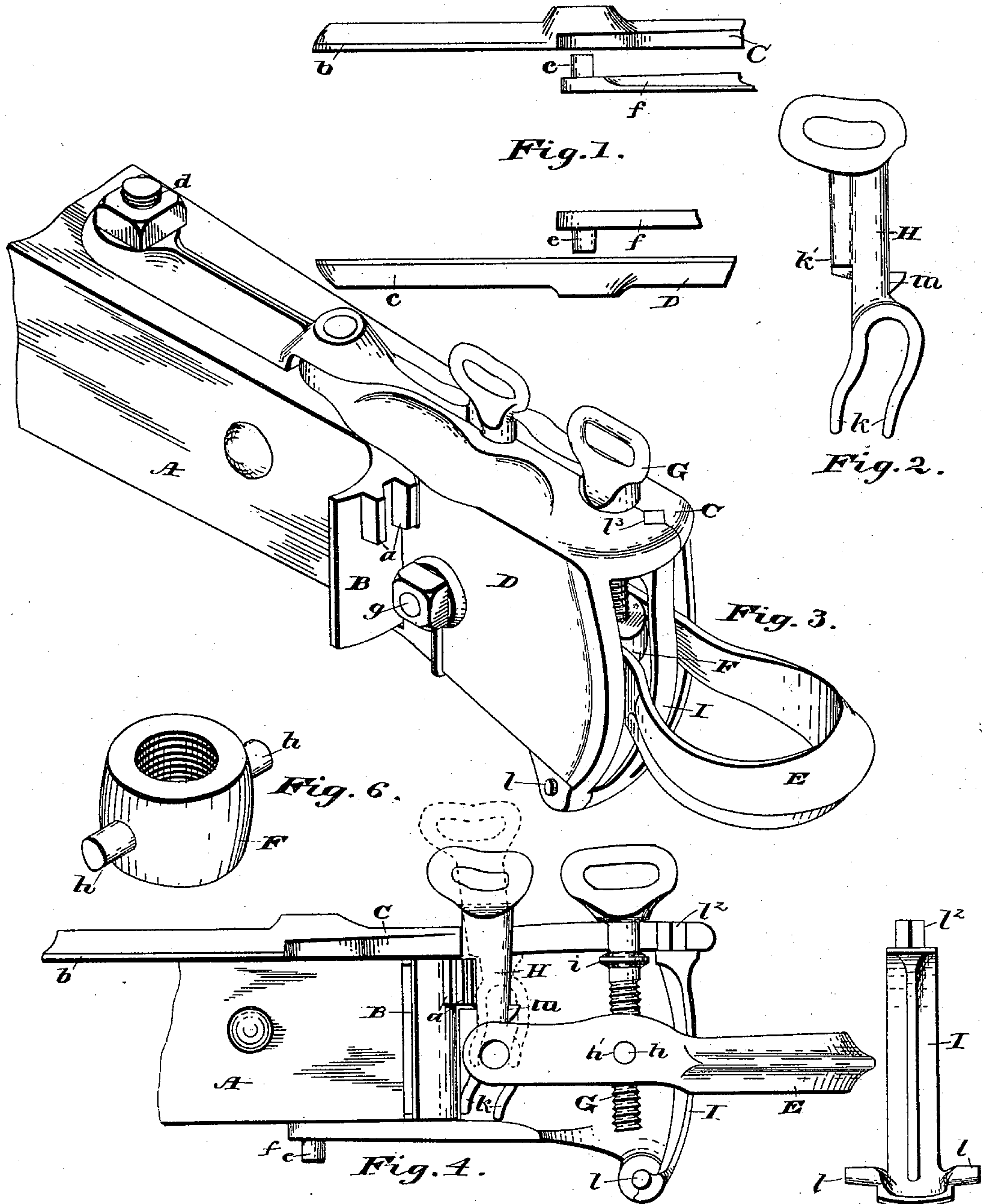


(No Model.)

O. A. ESSIG.  
PLOW CLEVIS.

No. 396,474.

Patented Jan. 22, 1889.



Witnesses:  
A. J. Fulmer.  
C. H. Kane.

Inventor, Fig. 5.  
O. A. Essig  
By  
Bond & Wise  
Attorneys.



# UNITED STATES PATENT OFFICE.

OZIA A. ESSIG, OF CANTON, OHIO.

## PLOW-CLEVIS.

SPECIFICATION forming part of Letters Patent No. 396,474, dated January 22, 1889.

Application filed October 10, 1888. Serial No. 287,750. (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 Plow-Clevises; 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 view of a portion of the frame, showing the hinge. Fig. 2 is a detached side view of the retaining-key. Fig. 3 is a perspective view. Fig. 4 is a side view showing a portion of the frame removed. Fig. 5 is a detached view of the fender. Fig. 6 is a detached view of the screw-threaded nut.

The present invention has relation to plow-clevises; 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 a portion of a plow-beam, which may be constructed in the ordinary manner, reference being had to attaching the different parts of the clevis to said beam. The crown-head B is securely attached to the front or forward end of the beam A in any convenient and well-known manner, and, as shown, is provided with the teeth or cogs *a*. The frame proper is formed in two sections, C and D. The section C is provided with the arm *b*, and the section D is provided with the arm *c*. Said arms extend back on the beam A, as illustrated in the drawings, and are securely held to said beam by means of the clamping-bolt *d*. These arms *b* and *c* are each provided with apertures, which are for the purpose of receiving and holding the pins or studs *e*, said pins being located on the arms *f*, one of these arms being formed integral with each section of the frame proper, said parts being so adjusted and arranged that when the pins or studs *e* are properly entered in their apertures the sections C and D will

be securely hinged together, and at the same time bring the short arms *f* upon the inner sides of the long arms *b* and *c*, thereby securely holding the sections C and D together when the frame is properly adjusted to the beam A.

To the frame is securely and pivotally attached the draft-link E. Said draft-link is located substantially as illustrated in the drawings, and is held by means of the clamping-bolt *g*. Within draft-link E is located the screw-threaded nut F, said screw-threaded nut being provided with the arms or extensions *h*, which are for the purpose of entering the apertures *h'*. The screw G is located substantially as illustrated in the drawings, and is held in proper position by means of the collars *i*. One-half of the aperture through which said screw G passes is formed in each section of the frame proper.

It will be seen that as the screw G is turned in one direction the draft-link E will be elevated, and when said screw is turned in the opposite direction said draft-link will be lowered, thereby regulating the cutting-depth of the plow. It will also be seen that as the draft-link E is elevated or lowered the screw-threaded nut F will turn upon the arms or extensions *h*, thereby compensating for the arc described by the draft-link E at the point of attachment to the screw G.

By attaching the screw G to the draft-link E by means of the screw-threaded nut F, I am enabled to adjust said draft-link to any desired point within the limits of its movements, and at the same time securely hold said draft-link at any desired point of adjustment. For the purpose of adjusting the frame together with the draft-link laterally, thereby causing the plow to take more or less land, the teeth or cogs *a* are provided, and also the pin or key H. The bottom or lower end of the pin or key is provided with the tangs *k*, said tangs being bent or curved, substantially as illustrated, so as to force the feather *k'* between the teeth or cogs *a*, thereby securely locking the frame, together with its different parts, at any desired point of lateral adjustment. When it is desired to change the lateral adjustment, the pin or key H is elevated, as illustrated in the dotted lines, thereby dis-



engaging the feather  $k'$  from the teeth or cogs  $a$ , when the frame is free to be adjusted to any desired point within the limits of the crown-head B.

5 It will be seen that by providing the curved tangs  $k$  and having one of these tangs located upon each side of the bolt  $g$  the pin or key H will be forced toward the teeth  $a$  as the key is forced downward and away from the  
10 teeth as the key is elevated.

The fender I is located substantially as shown in the drawings and is for the purpose of protecting the screw G. The bottom or lower end of this fender is held in proper po-  
15 sition by means of the pins  $l$  and the apertures  $l'$ . The top or upper end of said fender is securely held in place by means of the pin  $l^2$  and the aperture  $l^3$ , one-half of said aperture being formed in each section of the  
20 frame.

For the purpose of preventing the pin or key H from becoming detached from the frame, and at the same time limiting the movements of said pin or key, so as to pre-  
25 vent the tangs  $k$  from becoming detached from the clamping-bolt  $g$ , the stop  $m$  is provided, said stop being so adjusted that it will strike the top of the frame when the feather  $k'$  has become disengaged from the teeth  $a$ .

30 It will be understood that in attaching the frame proper to a metal plow-beam the form of said frame should be changed so as to correspond with the form of the metal beam, and in attaching the crown-head to a metal beam  
35 its form should be changed so as to conform to the form of the metal beam.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the beam A, having 40 attached thereto the crown-head B, the frame formed in two sections, C and D, said sections being hinged together, the draft-link E, pivotally attached to the frame and carrying the screw-threaded nut F, and the screw G, sub- 45 stantially as and for the purpose specified.

2. The combination of the sections C and D, the long arms  $b$  and  $c$ , the short arms  $f$ , provided with the pins or studs  $e$ , adapted to enter the apertures in the arms  $b$  and  $c$ , and 50 a draft-link, substantially as and for the purpose specified.

3. The pin or key H, provided with the tangs  $k$ , in combination with the crown-head B, provided with the teeth  $a$ , and with the 55 frame C D, substantially as and for the purpose specified.

4. The combination of the frame formed in two sections, said sections being hinged together, the draft-link E, pivotally attached to 60 said frame and carrying the screw-threaded nut F, the screw G, and bolt  $g$ , substantially as and for the purpose set forth.

5. The combination of the frame formed in two sections, the fender I, provided with the 65 pins or extensions  $l$  and  $l^2$ , the draft-link E, and bolt  $g$ , and the beam A, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence 70 of two witnesses.

OZIA A. ESSIG.

Witnesses:

E. G. LANE,  
FRED W. BOND.