C. H. FOSS.

Clevis.

No. 159,662. Patented Feb. 9, 1875.

FIG. 1.

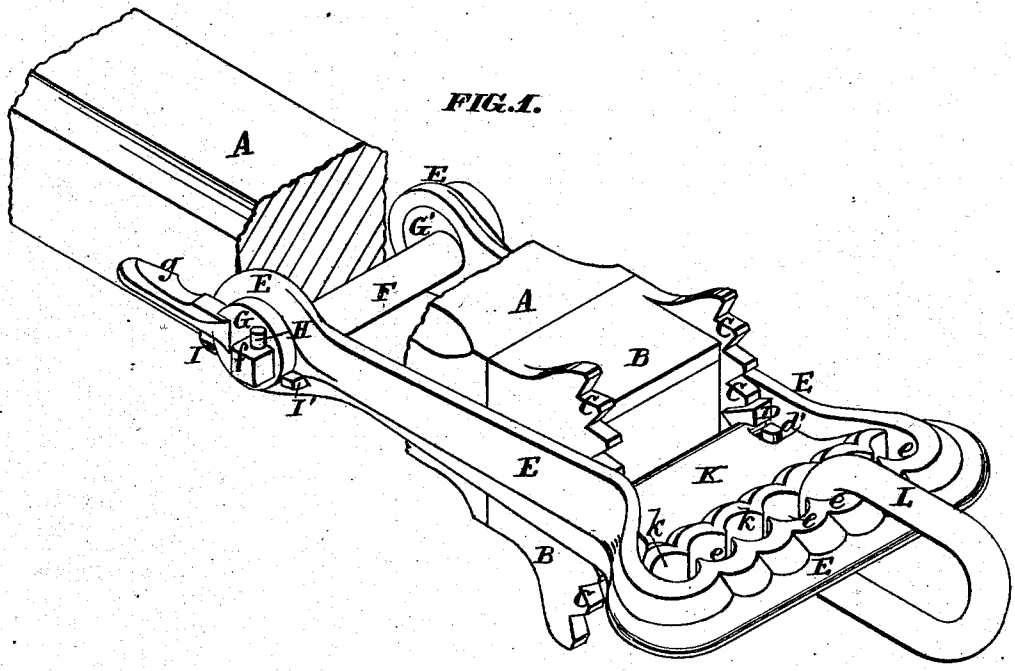
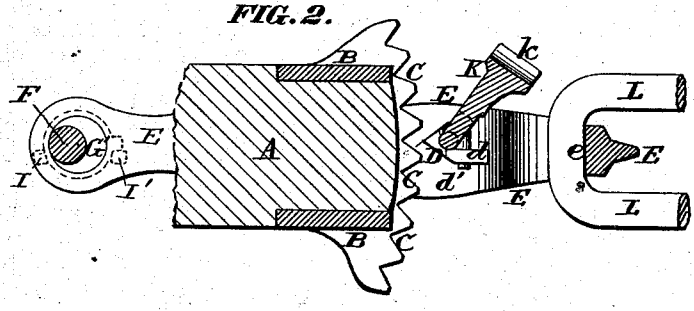


FIG. 2.



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UNITED STATES PATENT OFFICE.

CHARLES H. FOSS, OF ONARGA, ILLINOIS.

IMPROVEMENT IN CLEVISES.

Specification forming part of Letters Patent No. **159,662,** dated February 9, 1875; application filed January 16, 1875.

To all whom it may concern:

Be it known that I, CHARLES H. FOSS, of Onarga, Iroquois county, Illinois, have invented a certain Improvement in Plow-Clevises, of which the following is a specification:

My improvement consists in the combination of a ferrule fitting the end of the beam, and having at each side jaws with serrated edges, against which engage teeth upon the sides of the clevis-iron when the latter is drawn backward.

The clevis-iron is drawn backward by means of an eccentric or cam bolt, and when drawn back the iron is held to its vertical adjustment in relation to the beam; but when the teeth of the clevis-iron are released from the notched jaws, the clevis-iron may be vertically adjusted to regulate the depth of furrow.

The second part of my invention consists in a drop-plate having notches to match the semicircular notches in the back of the front bar of the clevis-iron, as shown, so that when the drop-plate is down the ring or link by which the plow is drawn cannot escape from the notch in which it may be; but when the plate is thrown up, so as to open the notches, the draw-link may be changed from notch to notch, so as to regulate the breadth of furrow.

In the drawings, Figure 1 is a perspective view of the clevis with the end of the plow-beam. Fig. 2 is a longitudinal section, showing the clevis-iron forward to admit of vertical adjustment, and the drop-plate thrown up to admit of side adjustment of the draw-link.

A is the end of the plow-beam. B is a square ferrule upon the end of the beam, the side plates of the ferrule having notch-racks C C, with which engage the teeth or lugs D D upon the inner sides of the side bars of the clevis-iron E.

The horizontal transverse bolt F, by which the clevis-iron is held on the beam, has eccentrical heads G G′, the former of which is removable, and fits on the square end *f* of the bolt, on which it may be retained by a pin, H.

g is a handle extending out from the head G, and by this handle the bolt is turned, so as to move the clevis-iron forward or backward by rotating the cam-heads G G′ within the eyes at the rear ends of the clevis-iron.

When the bolt F is in the position shown in Fig. 1, with the handle *g* and salient parts of the eccentrics presenting rearward, the teeth or lugs D D are held firmly engaged in the racks C C; but when the bolt is turned about half around, as shown in Fig. 2, the lugs D D are disengaged from the racks C C, and the front end of the clevis may be raised or lowered.

I I′ are stops upon the sides of the clevis-iron, to arrest the rotation of the bolt F at the proper points by the impingement of the handle *g* against them. The head G′ may have a projection coming in contact with stops for the same purpose.

The stop I′ is so arranged that when the handle *g* is turned over forward, so as to come in contact with it, the salient sides of the eccentrics or cams are forward; and the stop I is so arranged that when the handle is turned over backward, so as to come in contact with it, the cam shall have been turned over until the salient part is a little past the center, so that the draft-strain upon the clevis shall tend to keep the handle in contact with the stop I, and not to rotate the cam-bolt, so as to loosen the clevis.

K is a drop-plate, pivoted at the rear side in the sides of the clevis-iron, its front edge being sustained, when parallel with the clevis, by stop-lugs *d* on the inner sides of the clevis-iron.

The front end of the drop-plate is held down by its weight, and, when down, the semicircular notches *k k* in its front edge form, with the semicircular notches *e e* in the rear of the front bar of the clevis-iron, a series of circular orifices, in any one of which the draw-link L may work, and from which it cannot escape as long as the drop-plate is down.

The drop-plate pivots may be held in place by simple pins *d′*, or by other means.

To change the draw-link from notch to notch, so as to cause the plow to turn a wider or narrower furrow, the front end of the drop-

plate K is raised, and the link L may then be readily changed from one to another of the notches *e*.

I claim as my invention—

1. The combination of clevis-iron E, lugs D, notched jaws C, and cam-bolt F, all substantially as set forth.

2. In combination with the clevis-iron E, the drop-plate K, substantially as and for the purpose set forth.

CHARLES H. FOSS.

Witnesses:

SAML. KNIGHT,

ROBERT BURNS.