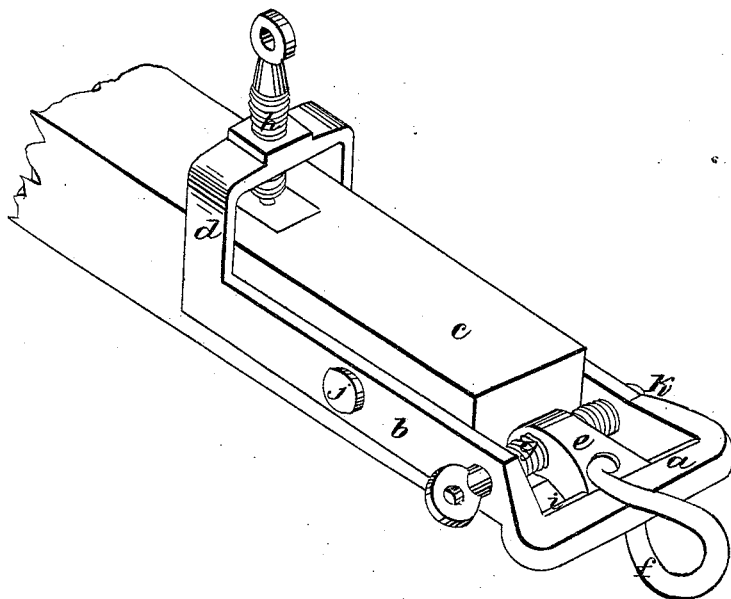


I. EVANS.

Plow-Clevis.

No. 5,581.

Patented May 16, 1848.



# UNITED STATES PATENT OFFICE.

ISAAC EVANS, OF LEBANON, OHIO.

## IMPROVEMENT IN CLEVISES.

Specification forming part of Letters Patent No. 5,581, dated May 16, 1848.

*To all whom it may concern:*

Be it known that I, ISAAC EVANS, of Lebanon, Warren county, Ohio, have invented a new and useful Improvement on Plow-Clevises; and I do hereby declare that the following is a full and exact description of the construction and operation of the same, reference being had to the annexed drawing of the end of a plow-beam with my improved clevis attached thereto.

The clevis with my improvement consists of the following principal parts, viz:

1. The head or bow *a*, to which the draft is attached, with plates *b* extending backward from it on each side of the plow-beam *c*, as in the common clevis. A bridge, *d*, is attached to the back ends of the plates and rising over the beam.

2. A movable block, *e*, with a hole or eye, through which the draft ring or link *f* passes.

3. A horizontal adjusting-screw, *g*, which passes through the movable block and regulates the position of the draft-ring.

4. A vertical adjusting-screw, *h*, which passes through the center of the bridge and is used to regulate the position of the head of the clevis.

1. The head and plates do not differ from the common clevis in their general form and proportions. The head has no notches on its inner edge, *i*, but has that edge straight and filed to a V-shape to receive the end of the movable block, which has a V-shaped notch or groove to fit it. The bridge is a continuation of the back ends of the plates, rising perpendicularly from them to the height of about four inches, then bent at right angles toward each other, meeting over the center of the plow-beam, where they are welded together. At this point (the center of the bridge) it is about half an inch thick, and is perforated by a hole about half an inch in diameter, which hole is screw-tapped to receive the vertical adjusting-screw. There is a half-inch hole through each plate about five inches from their back ends, through which a round screw-bolt, *j*, passes to attach the clevis to the plow-beam, and which also serves as a hinge upon which the clevis vibrates. Through the plates there are holes, at their forward ends, about one and a half inch from the V-edge of the head of the clevis, through which the hori-

zontal adjusting screw passes. These holes are about five-eighths or three-quarters of an inch in diameter. The whole clevis is about ten or eleven inches long, the plates about three-eighths of an inch thick and an inch and a half wide. The head is about three-quarters of an inch thick and about one inch in depth, that is, from the V-edge forward.

2. The movable block is about two inches long and one inch square. It has two holes through it, one at the back end, which is screw-tapped to play upon the horizontal adjusting-screw, and the other at the forward end to receive the link or ring, by which the plow is to be drawn. This last hole passes through the block vertically, while the first-named passes through it horizontally when the block is in its place. The forward end of the block has a V-shaped notch or groove, which fits upon the V-shaped edge of the head and slides upon it from side to side.

3. The horizontal adjusting-screw is about five-eighths of an inch in diameter, and has its head pierced that it may be turned with facility. It is about three and a half inches long (though its length depends upon the thickness of the plow-beam) and is screw-cut its whole length. The above-named screw passes through both plates from side to side, and is fastened permanently in its place by having a washer, *k*, riveted upon its point, and is so arranged that it turns freely on its axis, and as it passes through the movable block, to which the draft-ring is attached, this block and ring can be moved from side to side by turning the screw right or left.

4. The vertical adjusting-screw is from half an inch to five-eighths of an inch in diameter, about three inches long, has a pierced head, and is screw-cut its whole length, and passes through the hole in the center of the bridge, its end resting upon a small plate fastened to the top of the plow-beam. By turning this screw the elevation of the head of the clevis is regulated. All these parts are to be made of good iron or steel.

Operation: The clevis is placed upon the end of the plow-beam with bridge upward, and the horizontal adjusting-screw and movable block as near the end of the beam as practicable

without interfering with free play upward and downward, a suitable hole being made through the beam horizontally in the center of its depth and corresponding with the holes in the middle of the plates. It is made fast by means of its proper screw-bolt and nut. By means of the vertical adjusting-screw the draft may be elevated or depressed, according to the depth of the furrow required, and by means of the horizontal adjusting-screw the draft is moved from side to side, so as to give more or less land.

I make no claim to the parts described as the head or bow, the plates, and the screw-bolt, which attaches the clevis to the plow-beam, nor to the adjusting-screws. All of these are parts of the common clevis, long and well known.

I claim as my own peculiar invention—

The adjusting apparatus consisting of the

movable block, to which the draft-ring is attached, and the bridge supporting the vertical adjusting-screw, in combination with the clevis, the adjusting-screws, and beam, by which I am enabled to alter the position of the point of draft vertically and horizontally with any degree of nicety, without having to weaken the beam by a special perforation for an adjusting-bolt.

In testimony that the foregoing is a true specification of my invention I have signed my name before two witnesses and made affirmation to the same at the town of Lebanon, Warren county, Ohio, this 30th day of April, A. D. 1847.

ISAAC EVANS.

In presence of—

THEODORE LANE,  
BENJ. BLACKBURN.