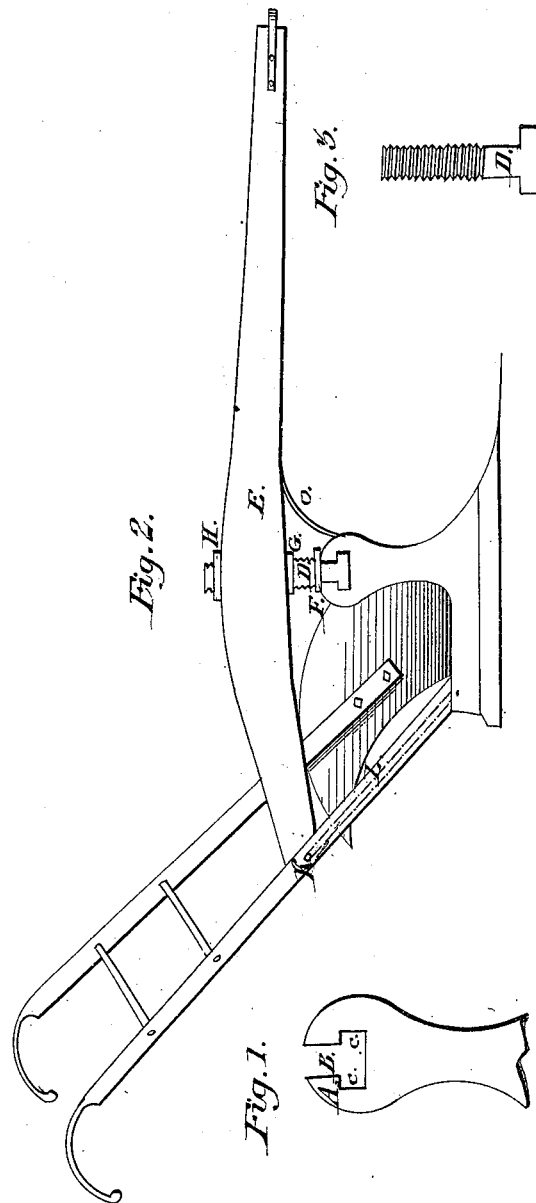


J. & W. D. Horrell & J. Sine,

Flour,

N^o 7,021.

Patented Jan. 15, 1850.



UNITED STATES PATENT OFFICE.

JOHN HOWELL, WM. D. HOWELL, AND JOSEPH SIPE, OF CLARKE COUNTY,
OHIO.

SUBSTITUTE FOR THE CLEVIS.

Specification forming part of Letters Patent No. 7,021, dated January 15, 1850.

To all whom it may concern:

Be it known that we, JOHN HOWELL, WILLIAM D. HOWELL, and JOSEPH SIPE, of the county of Clarke and State of Ohio, have invented a new and Improved Mode of Constructing the Sheth or Upright of the Bar-Share Plow; and we do hereby declare that the following is a full and exact description, reference being had to the accompanying drawings, making a part of the same.

The nature of our invention consists in having the upper part of the sheth or upright in the form of a crown-head, with a mortise through its whole length at right angles to the beam, which mortise has on each side, at the lower part, a groove running through it. Through this mortise and through the beam there passes a bolt the head of which is made to fit these grooves and slide from side to side in the mortise. By this bolt there are two motions given to the beam—the one horizontal, the other perpendicular.

To enable others skilled in the art to make and use our invention, we will proceed to describe its construction and operation.

The mold-board and share may be constructed in any of the known forms, and apply thereto our form of sheth or upright.

The upright may be either cast or wrought, terminating at the upper end in a crown-head, which crown-head, A, Figure 1, may be four inches long, placed at right angles to the beam E, Fig. 2. The mortise B, Fig. 1, through the whole length of the crown-head is one inch wide and one and one-half inch deep, having on each side of it and at the lower part a groove, C C, Fig. 1, one-half inch wide and one-fourth inch deep, making the mortise B one-half inch wider at the grooves C C than above them. Through this mortise B is a bolt, D, Fig. 3, passing perpendicularly through the beam E, the head of which bolt fits in the grooves and is two inches in length, and may be moved through the mortise from side to side. This bolt D is round, (only so much as works in the mortise B, which is square.) The round part has a thread cut on it, making a screw of it. This part passes through the beam E, on which screw are three burrs or nuts, two placed under

the beam and one above. The lower burr, F, Fig. 2, works on the crown-head A, by screwing it tight on the crown-head. The bolt D is made fast at any point in the mortise B which is desired. When the bolt is wanted to be moved sidewise, so as to give more or less land to the plow, this lower burr, F, is to be loosed, and then the bolt may be easily placed where wanted. The other burrs, G and H, are placed one, G, below, the other, H, above, the beam E, and are intended to elevate or depress the beam E, so as to make the plow run deeper or shallower.

The hind end of the beam E at K is placed against the inside of the main handle, and is fastened to the handle by means of a screw-bolt passing through the handle and beam. An iron rod, L, fastened to that screw-bolt, passes down the screw-bolt which fastens the lower end of the handle to the heel of the share.

The sides of the beam and handle at K are both to be made slightly rounding, so that the beam E may be easily moved sidewise without binding.

The line in Fig. 2 marked O is a strap of iron, the one end of which is screwed on the lower part of the beam, and the other rests against the upright, to prevent trash of any kind gathering on the bolt D.

The advantages of this invention are, as is proven by actual and thorough experiment, to make the same plow run exactly right after either two or three horses working abreast, cutting any width furrow desired, and running any depth the plowman wishes, all to be effected by moving the beam at the crown-head.

What we claim as our invention, and desire to secure by Letters Patent, is—

The combination of the crown-head A and bolt D with the upright, by which the plow is made to cut any width and depth desired, made substantially as herein described.

JOHN HOWELL.
WILLIAM D. HOWELL.
JOSEPH SIPE.

Witnesses:

WILLIAM A. ROGERS,
WM. WHITE.