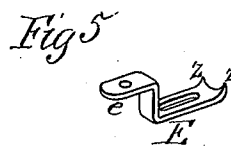
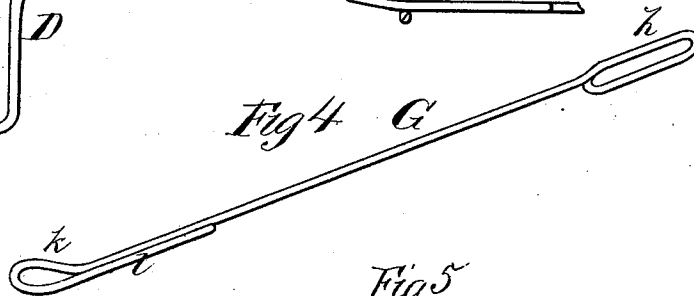
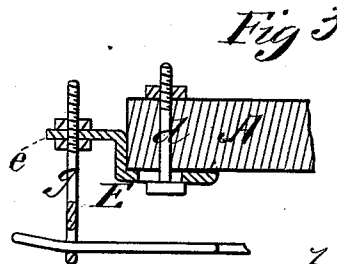
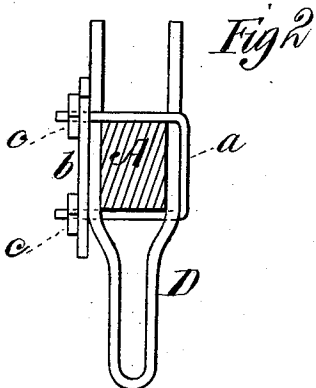
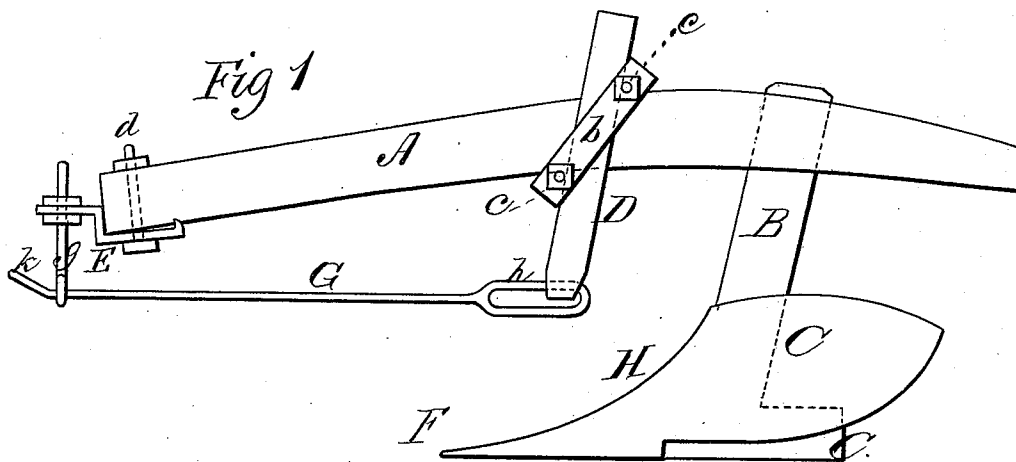


A. B. KING.
DRAFT FOR PLOWS.

No. 181,180.

Patented Aug. 15, 1876.



WITNESSES
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Francis J. Masi

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ABRAHAM B. KING, OF CAMDEN, OHIO, ASSIGNOR TO CATHARINE KING,
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IMPROVEMENT IN DRAFTS FOR PLOWS.

Specification forming part of Letters Patent No. **181,180**, dated August 15, 1876; application filed
May 27, 1876.

To all whom it may concern:

Be it known that I, A. B. KING, of Camden, in the county of Preble and State of Ohio, have invented a new and valuable Improvement in Drafts for Plows; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation 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.

Figure 1 of the drawings is a representation of a side view of my invention. Fig. 2 is a cross-section through the beam in front of the draft-arm. Fig. 3 is a longitudinal section through the end of the beam. Figs. 4 and 5 are details.

This invention has relation to improvements in means for applying the draft to a plow; and it consists in a U-shaped hanger, passed from below upon the beam, and having its arms extended upward at each side thereof, which arms are secured to the beam by means of a U-shaped clamp inclosing the same, a metallic plate connecting the ends of the clamp, and suitable nuts applied thereon. It also consists in the arrangement and novel construction, in connection with the beam, of a slotted, spurred, vibrating, angular clevis-plate, carrying an adjustable depending eyebolt, a clamp-bolt securing the said plate to the beam, a draft-rod (secured at its rear end to a hanger) depending from the beam in front of the plow-point, and extending to the front through the said eyebolt, as hereinafter shown and described.

In the accompanying drawings, the letter A designates a plow-beam of any ordinary pattern, and B the standard carrying the plow-plates C. D represents the draft-arm or extension downward from the plow-beam. This may be bolted to or mortised through the beam.

In the drawings the arm is illustrated in the form of a bent or U-shaped bar or plate, fitted upon the beam from the under side, and having its ends directed upward on each side of the beam. This arm is represented as being clasped to the beam by a bent binding-rod, *a*, a purchase-plate, *b*, and nuts *c*. This arm may

be adjusted downward or upward, to suit the draft, and fixed at any point on the beam required.

E designates the angular clevis-plate. The rear or main portion of this plate is applied under the end of the beam, and is slotted lengthwise for the passage of the bolt *d*, whereby it is secured to the beam, the adjustment of the plate being secured by means of points or teeth *z* at the rear end of the plate, adapted to bite into the wood of the beam, when a wooden beam is employed. The plate E is bent upward in front of the end of the beam, and then outward and forward, as shown at *e*, forming a supporting-flange for the adjusting-nuts of the depending eyebolt *g*. G represents the draft-rod, having at its rear end an eye, *h*, usually of elongated form, for connection with the arm D, which extends downward near the point F and cutting-edge H of the plow, to bring the line of draft as nearly as possible in line with the work.

In the construction illustrated, the eye *h* at the rear end of the draft-rod is in the vertical plane, while the eye *k* at the front end of the rod is at right angles thereto. This front eye is, preferably, formed by doubling the end of the rod, and extending the lapping end to the rear, alongside the main portion, as indicated at *l*. This gives strength and weight at this point, where the motion is greatest. The eye *k*, at the front end of the draft-rod, is bent upward somewhat to receive the hitching arrangement. The draft-arm D is adjusted sufficiently in front of the standard or cutter, if one be used, to allow free passage to the loose matter from under the beam. It is connected with the draft-rod at a point near the ground, and in the general direction of the work, close to the point and cutting-edge of the share of the plow.

This invention is designed to facilitate the adjustment of the plow, to give it steady motion and lighter draft. The construction of the parts may be readily varied by those skilled in the art; hence I do not desire to confine myself to the precise forms herein described.

Clevis-plate E is capable of some degree of horizontal vibration, and, as points *z* upon its rear edge will be forced into the material of the

beam when the clamp-bolt *d* is properly set up, it will be held, when adjusted, slightly out of line at the clevis end of the beam with the longitudinal axis of the latter, thus allowing the plowman to "land" the plow, as it is technically called in plowing hill-sides, and counteract the tendency to gravitate downhill, which exists under such circumstances. Eyebolt *g* and the U-shaped hanger *D* being each vertically adjustable, the draft-rod may be raised or lowered in a plane parallel to the plane of the lower edge of the land-side. Its front end may be raised, so as to cause the share to penetrate the soil a short distance only, and its front end lowered and its rear end raised, thereby causing the plow to bury itself in the ground without effort on the part of the plowman.

What I claim as new, and desire to secure by Letters Patent, is—

1. The U-shaped hanger *D*, passed upon the

beam from below, and having its ends extended upward at each side of the beam, in combination with the beam, a U-shaped clamp, *a*, inclosing the said arms, the purchase-plate *b*, applied upon the clamp, and nuts *c*, substantially as specified.

2. The horizontally-vibrating, slotted, angular clevis-plate *E*, carrying the adjustable depending eyebolt *g*, and having the fixing-points *z* at its rear end, in combination with a clamp-bolt, *d*, beam *A*, and draft-rod *G*, passing at its front end through the said eyebolt, and secured at its rear end to the arm *D*, substantially as specified.

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

ABRAHAM B. KING.

Witnesses:

CLINTON CHADWICK,
C. M. ROHRER.