

A. SNYDER.

Shovel Plow.

No. 109,960.

Patented Dec. 6, 1870.

Fig. 1.

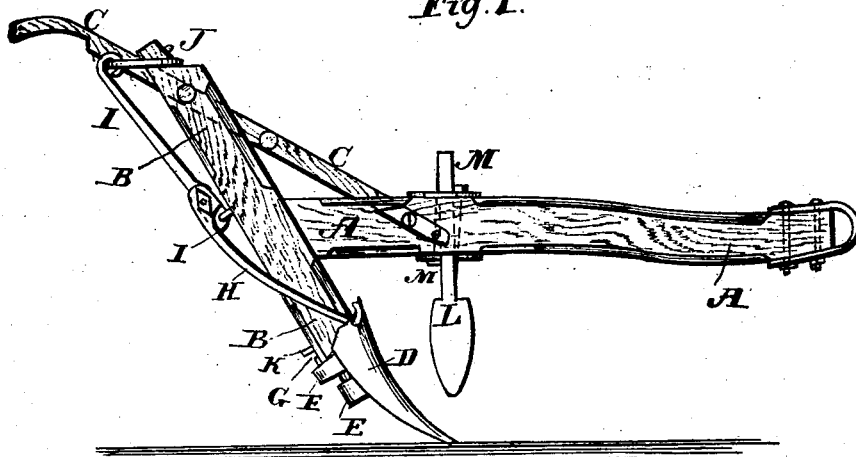


Fig. 2.

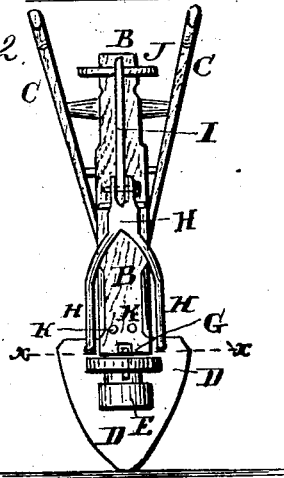
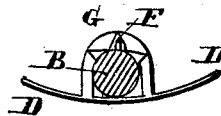


Fig. 3.



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# UNITED STATES PATENT OFFICE.

ADAM SNYDER, OF PACKARD, OHIO.

## IMPROVEMENT IN SHIFTING SHOVEL-PLOWS.

Specification forming part of Letters Patent No. 109,960, dated December 6, 1870.

*To all whom it may concern:*

Be it known that I, ADAM SNYDER, of Packard, in the county of Vinton and State of Ohio, have invented a new and useful Improvement in Shifting Shovel-Plows; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of my improved plow, one of the handles being broken away to more clearly show the construction. Fig. 2 is a rear view of the same. Fig. 3 is a detail sectional view of the same, taken through the line *x x*, Fig. 2.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved shovel-plow which shall be so constructed that the shovel may be set square with the line of draft or inclined to one or the other side, as may be desired; and it consists in the construction of the parts by means of which the shovel is secured to the standard of the shovel and adjusted, as hereinafter more fully described.

A is the plow-beam, to the rear end of which is attached the middle part of the standard B. C are the plow-handles, about the construction of which parts A B C there is nothing new.

D is the shovel, to the rear or concave side of which there are secured two rings or bands, E F. The lower ring, E, fits upon a round tenon formed upon the lower end of the standard B in such a way as to slide freely up and down upon it. The upper ring or band, F, fits upon the lower part of the standard B, which is rounded off to receive it.

To the rear side of the lower part of the standard B is attached a wedge-shaped metallic piece, G, which enters a notch formed in the inner surface of the ring or band F, to hold the plow D steady and prevent it from changing its position when at work. Three notches are formed in the inner surface of the ring or band F, to receive the catch or stop-piece G, one in the center of the rear part of the said band or ring, and the others upon each side of the said middle notch, as shown in Fig. 3, to enable the plow D to be adjusted

square with the beam or inclined to either side.

To the upper edge of the plow D are pivoted the lower ends of the forks or branches of the forked bar H, which pass down one upon each side of the standard B. The upper end of the forked bar H is pivoted to the lower part of the lever I a little above its lower end. The lower end of the lever I is pivoted to the rear side of the standard B about midway between its upper end and the top of the shovel D. The upper end of the lever I is about upon a level with the upper end of the standard B, and has a ring, J, pivoted to it, which may be dropped over the upper end of the said standard B to hold the said lever I in position when locking the plow D in place.

K are two top pins, attached to the rear side of the lower part of the standard B in such positions that the branches of the forked bar H may strike against them and be stopped when the shovel is in such a position that when raised the catch G will enter a side notch of the ring or band F. By this construction, by throwing the ring J from the standard B and lowering the lever I into a horizontal position, the plow D will be lowered, so that the notched ring or band E will be free from the catch G, and the plow D may be turned or inclined to the right or left, as may be desired.

L is a cutter, the shank of which passes up through a slot in the beam A, where it is adjustably secured in place by one or more wedge-keys, M, driven into the end part or parts of said slot along the edge or edges of the shank of the said cutter L. The cutter L is designed to steady the plow and cause it to work in a straight line, more particularly when the shovel D is inclined.

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

1. The arrangement of the ring E, internally-notched ring F, stop-piece or catch G, and shovel D with the standard B, as and for the purpose specified.

2. The arrangement of the forked bar H, lever I, ring J, plow D, rings E and F, with the standard B, substantially as herein shown and described, and for the purpose specified.

ADAM SNYDER.

Witnesses:

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