

J. FOX.

Improvement in Plows.

No. 128,295.

Patented June 25, 1872.

Fig. 1.

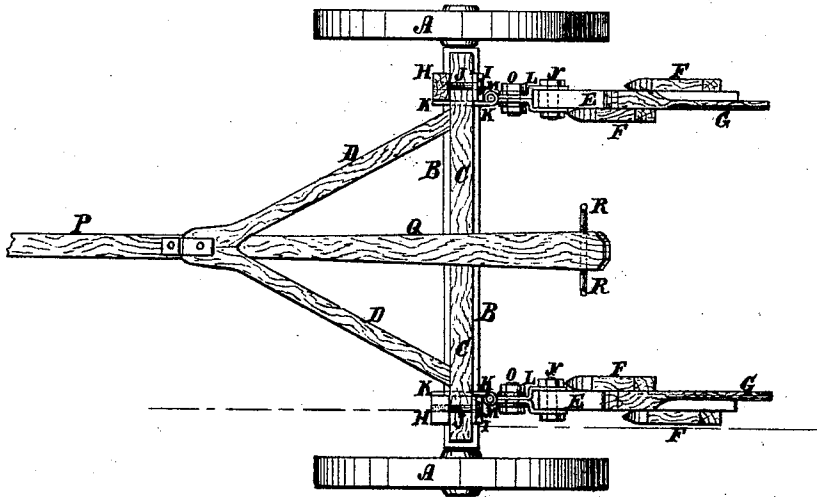


Fig. 3.

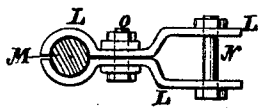
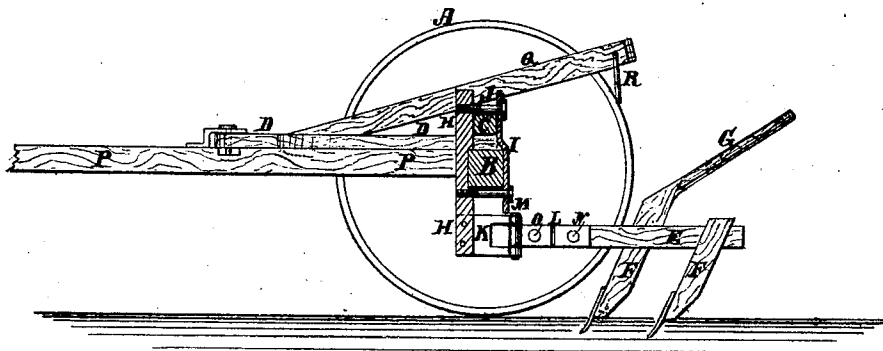


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOHN FOX, OF OSKALOOSA, IOWA.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 128,295, dated June 25, 1872.

Specification describing a new and Improved Wheel-Plow, invented by JOHN FOX, of Oskaloosa, in the county of Mahaska and State of Iowa.

Figure 1 is a top view of my improved machine. Fig. 2 is a side view of the same, partly in section, through the line *x x*, Fig. 1. Fig. 3 is a detail view of the coupling.

Similar letters of reference indicate corresponding parts.

My invention is an improvement in the mode of attaching plows to wheeled axles; and consists in constructing and arranging the parts composing the clamping device and the plow-coupling, as hereinafter described, so that the latter or the draft line shall be below the axle, the arrangement being also such that the plows may be adjusted to run deeper or shallower, as desired; and it consists in the construction and combination of the various parts of the device, as hereinafter more fully described.

A represents the wheels, B the axle, and C the bolster, and D the hounds of the rear part of the wagon, about the construction of which there is nothing new. E represents the beam, F the plow-standards, and G the handles of the plows or cultivators, about the construction of which parts there is nothing new. H are parts placed in a vertical position upon the forward sides of the axle B and bolster C, and between the rear ends of the hounds D and the wheels A, as shown in Figs. 1 and 2, with their lower ends projecting beneath said axle, as shown in Fig. 2. The posts or uprights H are secured to the said axle B and bolster C by the straps or bars I and bolts J. The bars I are placed in a vertical position at the rear side of the end parts of the axle and bolster directly opposite the uprights H. The bolts J pass through the ends of the bars I and through the posts H just above and below the bolster C and axle B, as shown in Fig. 2. In this way a firm support is furnished for the plows without its being necessary to form even a hole in the wagon-gearing. To the lower end of the posts H are bolted plates K, which may be placed at the outer side or inner side of the posts H, according as it is desired to have the plows work further from or closer to the row of plants being cultivated. Several holes should be formed in the lower parts of the posts H to receive the said bolts, so that the plates K may be conveniently raised or lowered to ad-

just the plows to run deeper or shallower in the ground, as may be desired. The rear edge of the plates K has a wide notch or slot formed in it to receive the eye-plate L of the coupling, and eyes to receive the pivoting-pin M that pivots the said eye-plate L to the post-plate K. In the forward part of the plate L is formed an eye to receive the pivot M attached to the rear edge of the post-plate K. The rear end of the plate L is branched or spread apart, as shown in Fig. 1, to receive the end of the plow-beam E, to which it is secured and pivoted by a bolt, N, so as to give the plows a free vertical movement. The vertical pivot M gives to the plows a free lateral movement. This coupling while giving the plows a free movement in any direction, at the same time always holds them in a vertical position, so that all the plowman has to do is to guide the plows. The eye-plate L may be made in two parts, as shown in Fig. 3, if desired, said parts being secured to each other, clamping the pivot M between their forward ends by a bolt or bolts, O, passing through the bodies or middle parts of said parts, as shown in Fig. 3. P is the tongue, which is secured to the hounds D, bolster C, and axle B in the same manner as an ordinary reach. The tongue P is notched upon its upper side or has a keeper attached to its lower side to receive the double-tree, which is secured and pivoted by the same bolt that secures the said tongue to the forward parts of the said hounds. Q is a bar, the forward end of which is secured to the tongue P or forward part of the hounds D. The bar Q rests upon the bolster C, and to its rear end are attached hooks R to receive and support the plows away from the ground for convenience in turning or in passing from place to place.

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

The clamping device composed of the posts H, bars I, and bolts J attached to the bolster C and axle B, as specified, and carrying the plow-coupling K L M N O at its lower end, said coupling being vertically adjustable, as shown and described, for the purpose specified.

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Witnesses:

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