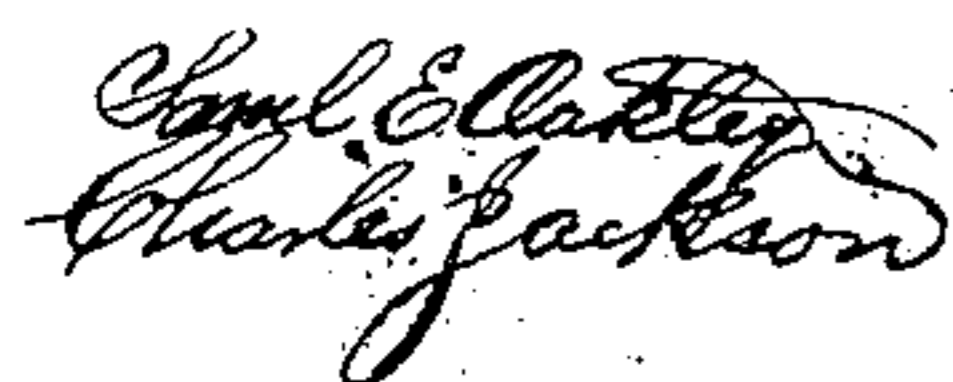


### Wheel-Plow.

Patented Aug. 11, 1863.



A. R. Kane

# UNITED STATES PATENT OFFICE.

H. R. HUIE, OF HAYWARD'S, CALIFORNIA.

## IMPROVEMENT IN GANG-PLOWS.

Specification forming part of Letters Patent No. 39,483, dated August 11, 1863.

*To all whom it may concern:*

Be it known that I, HORACE R. HUIE, of Hayward's, county of Alameda, in the State of California, have invented, used, and constructed a new and Improved Plow, entitled "Huie's Improved Gang-Plow;" 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 accompanying drawings and the letters of reference marked thereon, and making a part of this specification, in which—

Figure 1 is a top plan of the plow. Fig. 2 is a sectional side view. Fig. 3 is a perspective view of the axle. Fig. 4 is a side view of the eye of the axle.

I construct a frame, H H, the beams being, say, about five feet long, and their dimensions three by four inches, which are held together at their rear end by a cross-piece, *h*. About one-third of the length from the tongue I provide a similar cross-piece, K, one end of which is allowed to project from the right side of the beam, and is designed for the arc C to be placed thereon, as also the accompanying lever A B. Said cross-piece K is firmly attached to the beams H H in the usual manner. The tongue J is placed between the forward ends of said beams, and is held therein by a substantial bolt or key, as indicated by the dotted lines in the drawings. The back end of said tongue may be provided with any of the known devices for elevating or depressing the same when required.

I construct an axle-tree, D, (which serves at the same time as a lever,) of wrought-iron, of the dimension required, and of about the form or shape as represented in Fig. 3, the left end of which is provided with an oval-shaped slotted piece, *a*. The bolt which passes through said slot *a* is a part of the movable arm E, which arm is pivoted on end of the projecting axle *c*, and is secured by a nut on the outer end.

The entire axle-tree D, as will be seen, is provided with right angles, for the purpose of raising or lowering the plow by means of lever A,

which lever, as will be seen in the drawings, is conveniently situated near the driver's seat.

The object in providing the slot *a* with its accompanying bolt fitting therein, and as attached to the movable arm E, is for the purpose of altering the position or plane of one wheel from the other, since one or the other wheel may travel in a furrow while plowing, thereby causing the plow to incline; or, when plowing on hill-sides, this device is of particular advantage in keeping the plow and driver in a horizontal position.

The lever A is provided with a spring-slide, B, the lower end of which is fitted to the notches on the arc C. Said arc is forged at right angle at the lower end, and is securely attached to the beam H. I provide the cross-piece K with eyes F, Fig. 4, for the axle-tree D to work in.

I provide four standard or upright pieces, as indicated in Fig. 2 by dotted lines. The forward pieces are placed erect, and are fastened to the beams H H, and, reaching above the wheels G, the after upright pieces incline slightly forward, the right-side one serving as a rest for the arc C, the two parts being held by a strip of iron. A seat for the driver is mounted on said standards. The usual wheels with this bent arm may be employed.

The mold-boards M, of any given size or form, may be attached to the beams H in the usual manner, and at such distances as not to interfere with the work or action of each other.

I do not broadly claim the plow as herein described; but

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

The peculiar arrangement, construction, and application of the axle D and arm E, the slotted oval *a*, and the spring-slide and lever A B, for the purpose herein specified and described.

H. R. HUIE.

Witnesses:

SAML. E. OAKLEY,  
CHARLES JACKSON.