J. S. HALL.

Plows.

No. 144,760. Patented Nov. 18, 1873.

Fig. 1.

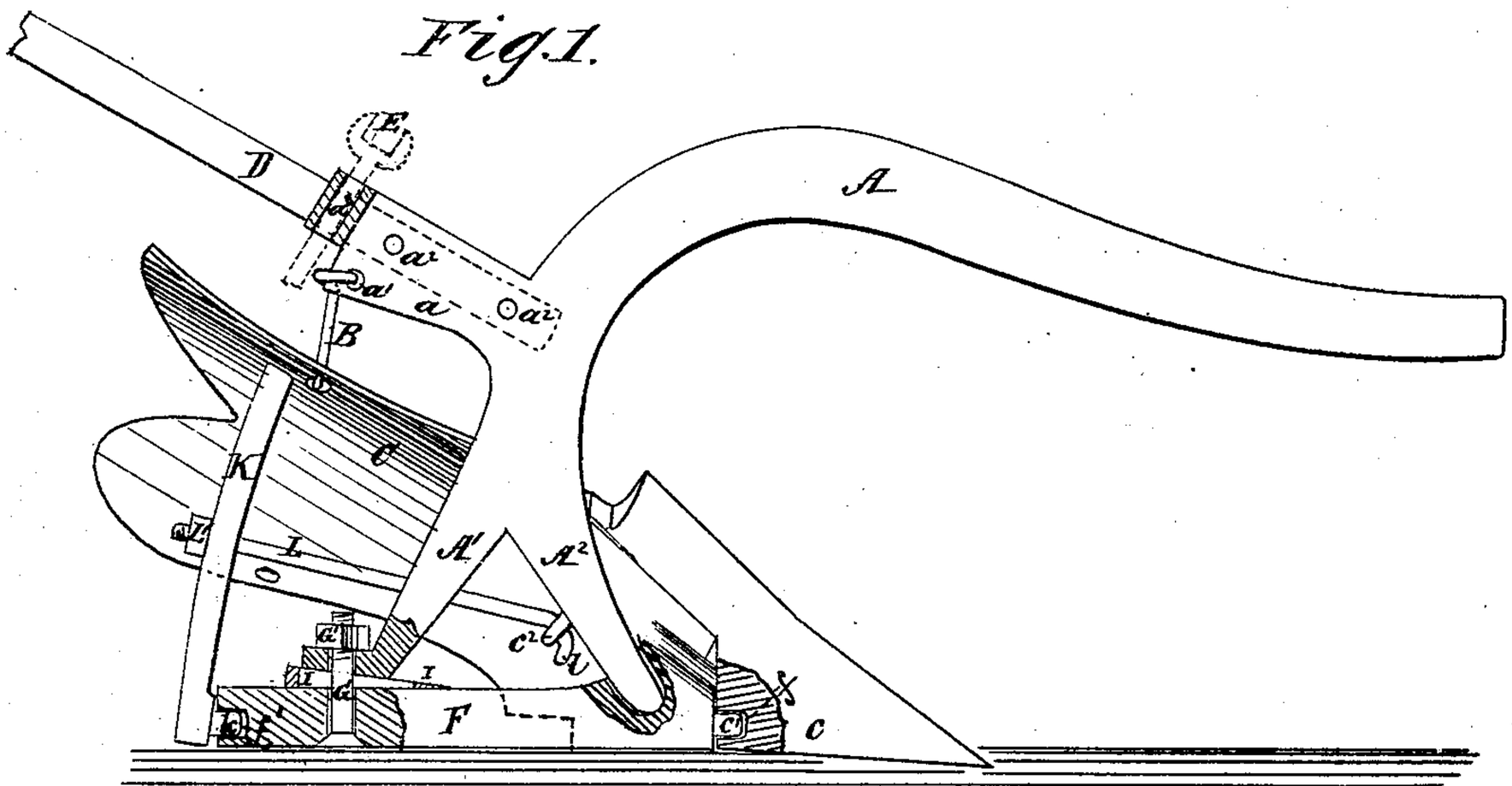
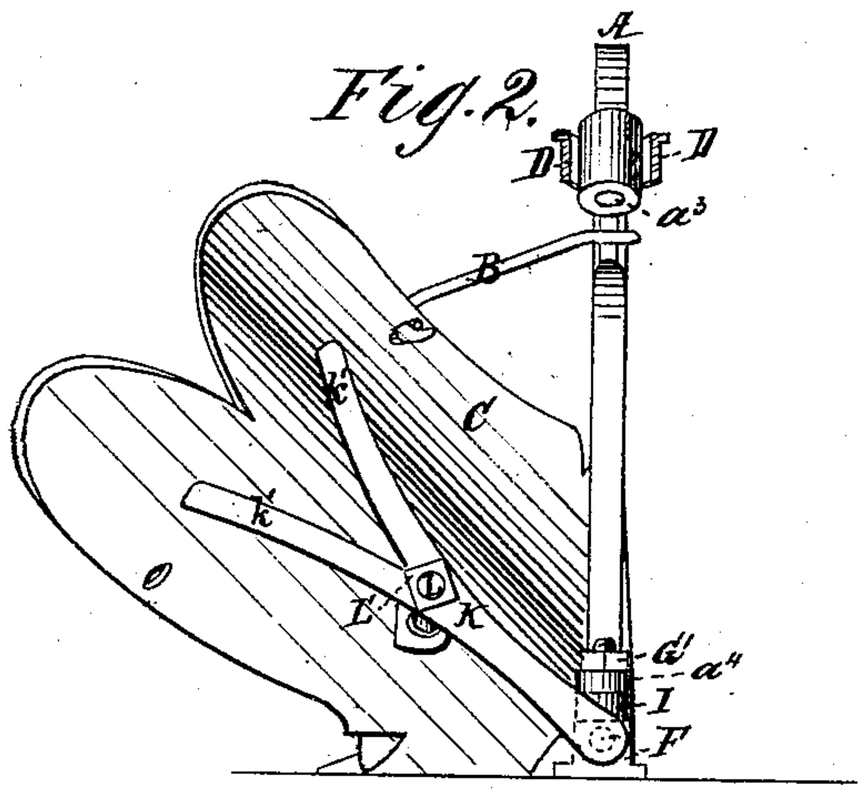


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

JOHN S. HALL, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **144,760**, dated November 18, 1873; application filed June 20, 1873.

To all whom it may concern:

Be it known that I, JOHN S. HALL, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new Improved Plow; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a side elevation, and Fig. 2 a rear elevation, of my improved plow.

The invention relates to that class of plows having reversible mold-boards, and will first be fully described, and then pointed out in the claim.

In the drawing, A represents the beam of a plow, provided with a handle projection or plate, *a*, quite or nearly at right angles to the rear thereof. It serves the several purposes of suspending the hook B that holds the mold-board C on either side of beam, of forming a secure support for the handles D D, and also serves conveniently to hold a wrench, E. In order to serve these purposes, it is perforated at a^1 for the hook, at a^2 a^2 for the bolts that hold the handles, and vertically at a^3 to hold the wrenches. The hook possesses great utility in bracing the mold-board and beam against any strain which tends to destroy their relative position, and this end is attained by its connection with the rear end of mold-board and the rear end of extension *a*. This beam has also two branches, A^1 A^2, that form the land-side, the former having a vertically-perforated foot, a^4, which is held to the sole F by a screw, G, whose head is secured in the sole, while the shank extends up through the foot and receives a nut, G′. The other branch, A^2, has its end forwardly obliqued and passed into a socket. I is a slotted wedge, which passes between the foot a^4 and the sole, being movable on the clamp-screw to regulate the pitch or depth of the plow. Of course, as the wedge is driven to a greater or less extent, the front end of beam is depressed, and the horses thereby compelled to lift the point of plow higher and higher. The mold-board C has an angular subjacent piece, *c*, in which enters a rear pivot, c^1, journaled in a front end bearing, *f*. At the other end of sole is another end bearing, *f′*, into which works the pivot *k* of a connecting-bar, K, which is secured, by branches *k′ k′* or otherwise, to the mold-board. This bar is secured to the inner side of mold-board. L is a clamp-screw, secured, by a hook, *l*, to a perforated stud, c^2, projecting from the inside, and near the front end, of mold-board. This screw has a threaded end, which passes through the bar K and receives the clamp-nut L′.

By this construction, a slight effort will enable the pivots c^1 *k* to be inserted in the end bearings *f f*, when the screw L and nut L′ will serve to clamp them in position, yet not with so much pressure as to prevent the pivots from readily turning whenever the mold-board is to be reversed.

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

The branches A^1 A^2 of beam and the sole F, constructed and combined with the nut-screw and slotted wedge in the manner and for the purpose specified.

JOHN S. HALL.

Witnesses:
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