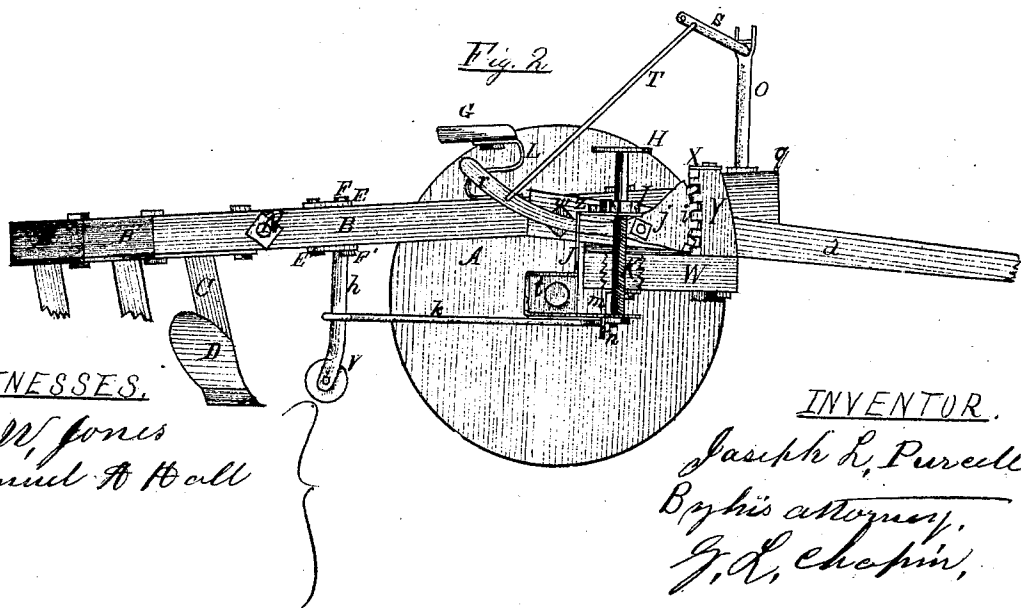
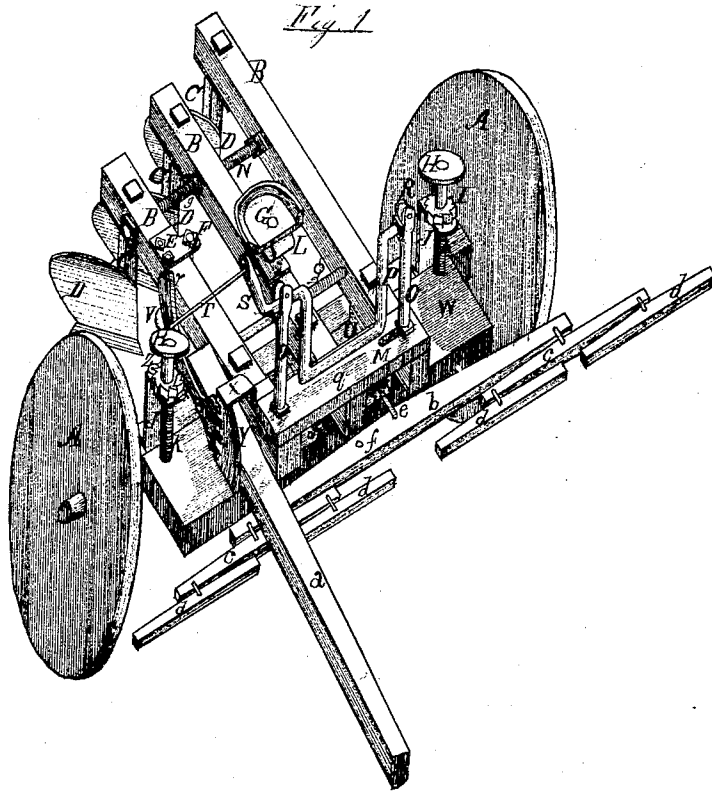


J. L. PURCELL.

GANG PLOW.

No. 108,516.

Patented Oct. 18, 1870.



WITNESSES.

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Samuel A. Hall

INVENTOR.

Joseph L. Purcell
By his attorney,
G. L. Chopin,

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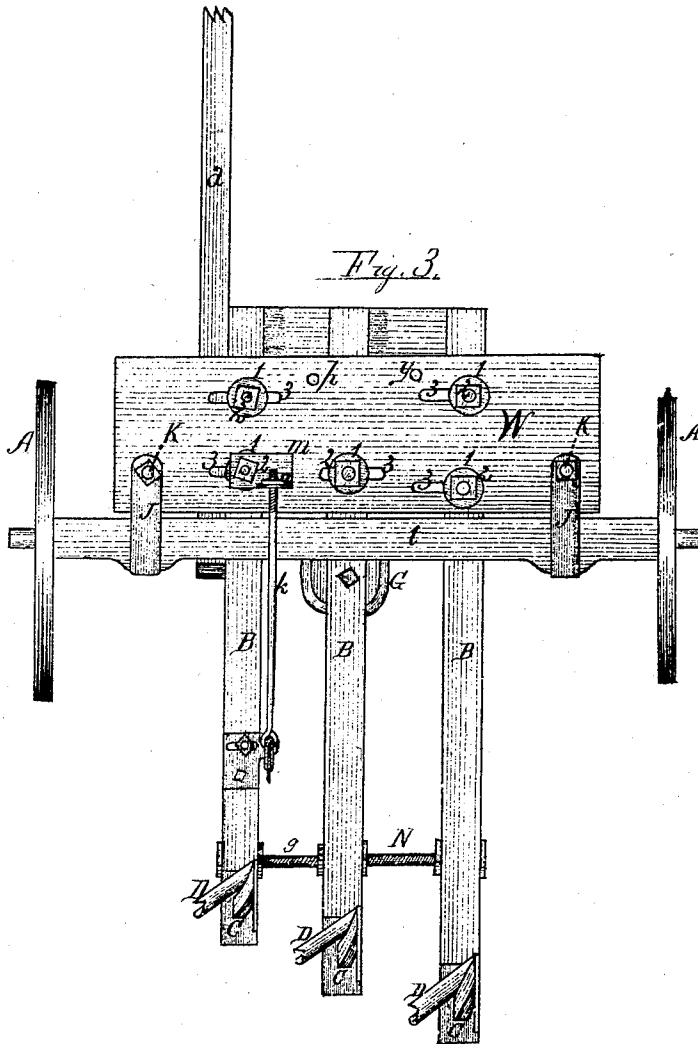


Fig. 3.

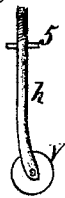


Fig. 4.

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UNITED STATES PATENT OFFICE.

JOSEPH L. PURCELL, OF THOMSON, ILLINOIS.

IMPROVEMENT IN GANG-PLOWS.

Specification forming part of Letters Patent No. 108,516, dated October 18, 1870.

To all whom it may concern:

Be it known that I, JOSEPH L. PURCELL, of Thomson, in the county of Carroll and State of Illinois, have invented an Improved Gang-Plow; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use of the same, reference being had to the accompanying drawings and letters marked thereon, making a part of this specification, in which—

Figure 1, Drawing 1, is a perspective representation of my invention; Fig. 2, a longitudinal section of the same; Fig. 3, Drawing 2, an inverted or bottom view.

The nature of the present invention consists in the novel means employed to adjust and operate the plows, as the whole is hereinafter fully shown.

A A represent the wheels, and *t* the axle-tree, on which the mechanism of the plow is mounted.

W is a strong platform, held to the axle-tree *t* by means of clamps J, which are provided with arms projecting toward the front of the plow, for the convenience of receiving the said platform between them.

Passing through the arms of clamps J, and through the platform W, are screw-rods K, by means of which the platform is raised and lowered, the upper ends of the rods being provided with disks for the convenience of turning them, and those parts of the rods directly above the arms being provided with ratchets, in order that the rods may be held in a fixed position when required.

The plow-beams B are bolted fast to the platform W, and the latter is provided with slots 3 3 3, &c., in order that the beams may be moved to or from either wheel, or to or from each other, screw-rods *g* N, Figs. 1 and 3, permitting the latter adjustment, and holding the rear ends of the beams in place when adjusted.

The tongue *a* is pivoted to an outer beam, B, and the means for raising the plows D out of the ground consist of a ratchet-lever, *r*, Figs. 1 and 2, which is pivoted to the tongue *a*, and its ratchet end *j* made to operate in a rack, Y, fastened to one of the beams B and to the platform W.

The arrangement for holding the plows down to their work consists of two standards, O, which fasten to the forward ends of the outside beams, B, and support a crank-lever, P. The end S of this lever is connected to the shank of the ratchet-lever *r* by means of a rod, T, and the arrangement is such that when the feet are made to bear on the crank-lever P the ratchet-lever *r* will be held down, and will consequently hold the rear ends of the beams B down.

The revolving colter-shank *h* is held in a fixed position against the draft by means of a rod, K, the opposite end from the colter of which fastens by a nut to a lug, *m*, Fig. 2, which fastens to one of the same bolts which hold the beam supporting the colter to the platform W. By this means, when the colter-beam is adjusted, the rod K will be moved parallel with it, and consequently have a straight line of draft.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

The arrangement, in a gang-plow, of the slotted platform W, clamps J, screw-rod K, beams B, rods *g* N, ratchet-lever *c j*, rack Y, rod T, crank-lever P S, and standards O O, as and for the purpose set forth.

JOSEPH L. PURCELL.

Witnesses:

J. W. JONES,
SAMUEL A. HALL.