

(No Model.)

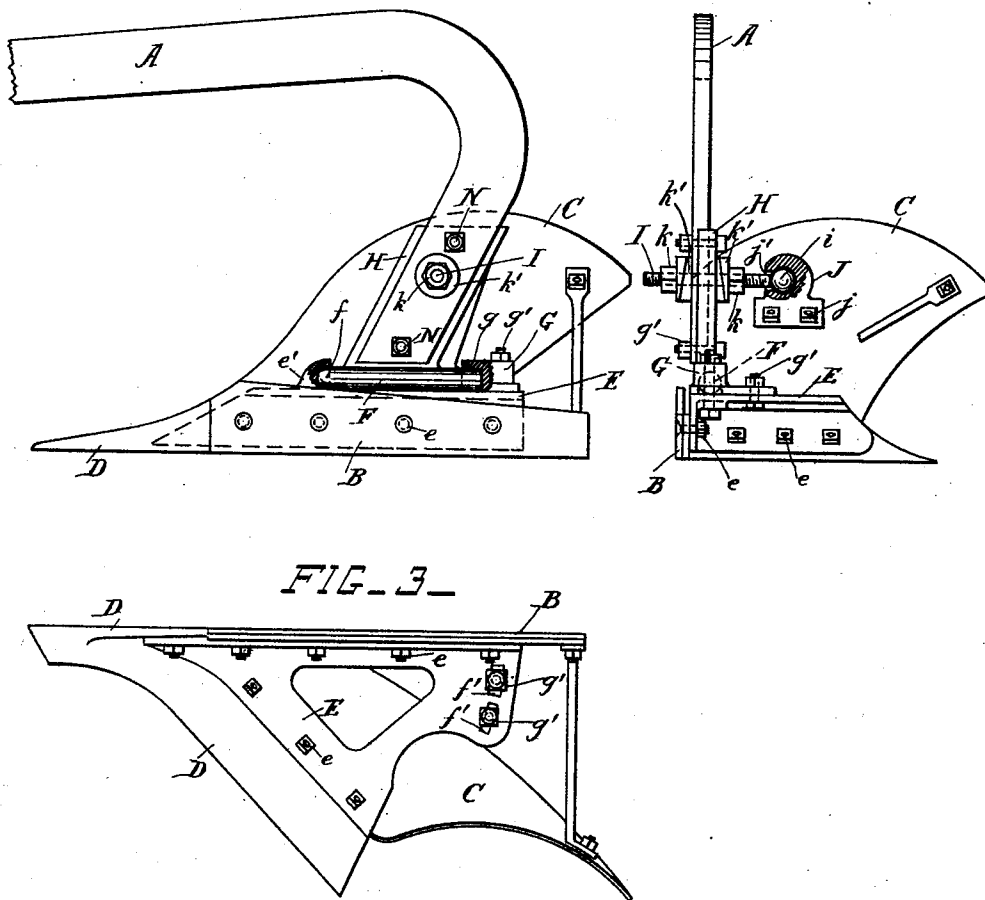
F. F. LANDIS.
PLOW.

No. 482,847.

Patented Sept. 20, 1892.

FIG. 1.

FIG. 2.



Witnesses

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FRANK F. LANDIS, OF WAYNESBOROUGH, PENNSYLVANIA.

PLOW.

SPECIFICATION forming part of Letters Patent No. 482,847, dated September 20, 1892.

Application filed May 28, 1892. Serial No. 434,736. (No model.)

To all whom it may concern:

Be it known that I, FRANK F. LANDIS, a citizen of the United States, residing at Waynesborough, in the county of Franklin and State of Pennsylvania, have invented certain new and useful Improvements in Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to plows, and more particularly to those used in gang-plows; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a side view of the plow. Fig. 2 is a rear end view of the plow. Fig. 3 is a plan view of the plow from below.

A is the plow-beam. B is the landside. C is the mold-board, and D is the share and point. These parts differ in no essential particular from those ordinarily used.

In plows it is often desirable to cant the landside and the mold-board to the right or to the left, and also to incline the landside with respect to the central line of draft of the plow. When single plows are used, this may be accomplished by moving the entire plow including the plow-beam in the desired direction, but in a gang-plow it is desirable that all the adjustments should be made without changing the relative positions of the plow-beams, as when the plow-beams are moved the plows do not cut furrows of equal width.

E is a horizontal bracket secured to the landside, mold-board, and share of the plow by the bolts *e*, the heads of which are countersunk. This bracket braces all the said parts securely together and is provided with a lug *e'* on its upper side at the front.

F is a circular horizontal bar having a hemispherical front end *f*, which is pivoted in the said lug *e'*, so that the bar is free to move to a limited extent upward or sidewise or to oscillate. The rear end of the bar F is journaled in the socket *g* of a clip G, and *g'* are bolts for securing the said clip to the bracket E. Slots *f'* are formed in the bracket E for the bolts *g'* to pass through. The landside and the other parts of the plow secured to the bracket E are inclined with respect to

the center line of draft by loosening the bolts *g'* and moving the clip G to the right or to the left, as desired.

The plow-beam A is secured to a socket H, formed on the bar F by the bolts N, so that the position of the plow-beam is not altered, and the slight angularity of the landside does not alter the relative distance between the plows in the gang-plow.

I is a screw-threaded bolt provided with a spherical head *i*.

J is a socket secured to the mold-board by the bolts *j* and provided with a hemispherical recess at its back and a hole *j'* at its front for the bolt I to project through. The bolt is slipped from the back through the hole *j'* so that its head *i* rests in the said recess before the socket J is bolted to the mold-board. Nuts *k* are provided for securing the bolt I to the plow-beam through which it passes, and *k'* are wedge-shaped washers arranged in pairs between the said nuts and the plow-beam.

The mold-board and other parts of the plow secured to the bracket E are canted over to the right or the left by turning the nuts upon the bolt I, according to the direction desired. The wedge-shaped washers are turned upon the bolt so that the nuts may bear against parallel faces when they are tightened up to clamp the plow-beam.

The spherical head of the bolt I permits the plow-blades to be canted over to a limited extent, and also permits their angularity to be varied with respect to the central line of draft, as hereinbefore described.

What I claim is—

1. The combination, with the plow-blades and the bracket secured to them, of a plow-beam provided with a bar at its lower end, one end of the said bar being hemispherical and pivoted in a lug at the front end of the said bracket, and the laterally-adjustable clip provided with fastening-bolts passing through slots in the rear end of said bracket and engaging with the rear end of the said bar, substantially as set forth.

2. The combination, with the plow-blades and the bracket secured to them, of a plow-beam provided with a bar at its lower end, said bar being pivotally connected to the said bracket, and a bolt pivoted at one end to the mold-board and having its other end adjust-

ably connected with the plow-beam above the said bar, substantially as set forth.

3. The combination, with the plow-blades and the bracket secured to them, of a plow-beam provided with a bar at its lower end, said bar being pivotally connected to the said bracket, a screw-threaded bolt passing through the plow-beam and provided with a spherical head, a socket pivotally connecting the said head with the mold-board, and a nut and a pair of wedge-shaped washers on the said bolt at each side of the plow-beam, substantially as set forth.

4. The combination, with the plow-blades and the bracket secured to them and provided with a lug at its front end, of the plow-beam

provided with a bar at its lower end and having a hemispherical end pivoted in the said lug, a laterally-adjustable clip engaging with the other end of the said bar and secured to the said bracket, and a bolt provided with a spherical head pivoted to the mold-board and having its other end adjustably connected with the plow-beam above the said bar, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK F. LANDIS.

Witnesses:

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