

C. T. ELLISTON.
Plows.

No. 156,554.

Patented Nov. 3, 1874.

FIG. I.

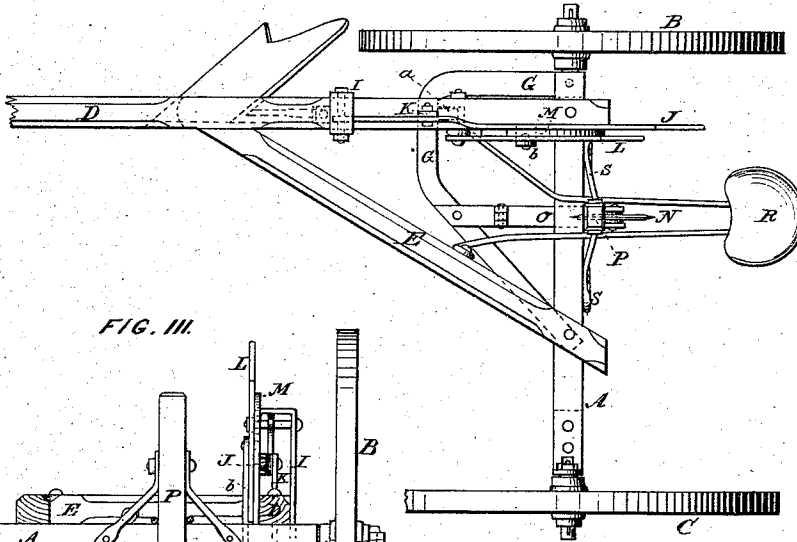


FIG. III.

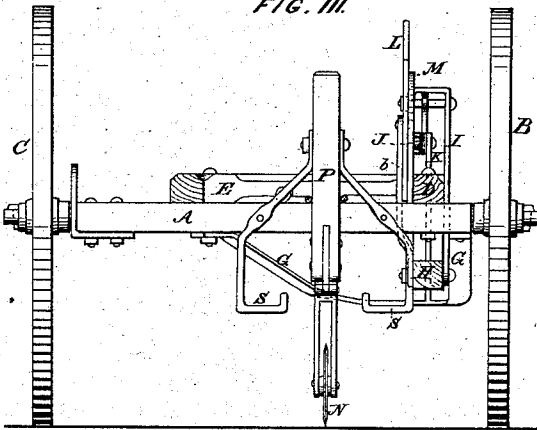
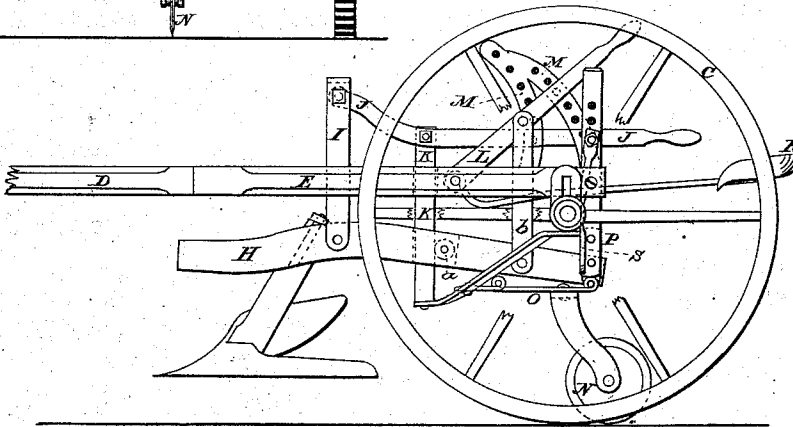


FIG. II.



WITNESSES:

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UNITED STATES PATENT OFFICE

CHARLES T. ELLISTON, OF CLINTON, MISSOURI.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **156,554**, dated November 3, 1874; application filed August 3, 1874.

To all whom it may concern:

Be it known that I, CHARLES T. ELLISTON, of Clinton, county of Henry and State of Missouri, have invented certain new and useful Improvements in Plows, of which the following is a specification:

The nature of my invention consists in the construction and arrangement of a sulky-plow, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view of my plow. Fig. 2 is a side elevation of the same, showing part of the plow-beam in longitudinal section; and Fig. 3 is a rear view of the plow.

A represents the axle, provided with the wheels B and C. The wheel C is made adjustable up and down by any of the known and usual ways, and is intended to run on the unplowed ground, while the wheel B is intended to run directly behind the plow, in the furrow made thereby. To the axle A, near the wheel B, is secured the tongue D, braced by means of an inclined or diagonal brace, E, as shown in Fig. 1. G represents a bent metallic bar, one end of which is secured on the under side of the axle at the end close to the wheel B, and is bent forward and downward for a suitable distance, after which it is curved toward the wheel, and then runs upward and backward, its other end being secured to the under side of the axle by the same bolt that fastens the rear end of the brace E thereto. H represents the plow-beam, from which a stirrup, I, passes upward and over the tongue D, the upper end of the stirrup being connected to a lever, J, for raising and lowering the plow. The stirrup I passes freely up and down on the sides of the tongue, and at the same time holds the plow steady, and prevents it from turning to either side. The lever J is pivoted to a bar, K, passing through and attached to the tongue, and then through a mortise in the plow-beam H, and its lower end permanently secured to the bent bar G. In the mortise on the plow-beam, back of the bar K, is a roller, *a*, which presses against said upright bar when the plow is in motion. With this roller in the beam the plow can be much easier raised and lowered by the levers. On the side of the tongue is pivoted a lever, L, which is connected with

the plow-beam H by a stiff bar, *b*, as shown in Fig. 2. This lever is used to level the plow and hold it steady, so that a uniform depth is secured.

The two levers J and L are held in two ratchets, M M, at any desired point, which ratchets are secured to the tongue D, and are arranged as shown, so as to brace each other. N represents a rolling colter, swiveled in the end of a bar, O, which is hinged to the bent bar G, and to the rear end of said hinged bar O is hinged a post, P, that passes up between the two arms supporting the seat R, and to the post are attached the two stirrups S S. By this mode of attaching the rolling colter the whole weight of the machine will press on it and prevent it rising over any obstacle that ought to be cut, such as cornstalks, old weeds, &c.

The colter cuts a place for the plow to run the next round. The colter being placed in this manner will prevent the choking of the plow with trash.

The stirrups S S are so placed on the post P as to form a brace for themselves and for the post. They are adjustable up and down on the post, so as to raise or lower the post, as desired.

The stirrup on the right side serves as a brace against the end of the plow-beam, to hold the same steady against the bent bar G, as shown in Fig. 3.

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

1. The combination, with the axle A and tongue D, of the bent bar G, with upright bar K and plow-beam H, all constructed substantially as and for the purposes herein set forth.

2. The combination of the roller *a* and the mortised plow-beam H with the bar K, passing through slots in plow-beam and tongue, and frame G, substantially as shown and described.

3. The combination of the colter N, hinged bar O, hinged post P, and adjustable stirrups S S, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my invention, I hereunto affix my signature this 24th day of July, 1874.

Witnesses: CHAS. T. ELLISTON.
G. C. COCK,
R. FIELDS.