

E. C. BUDD.
Sulky-Plow.

No. 199,689.

Patented Jan. 29, 1878.

Fig. 1

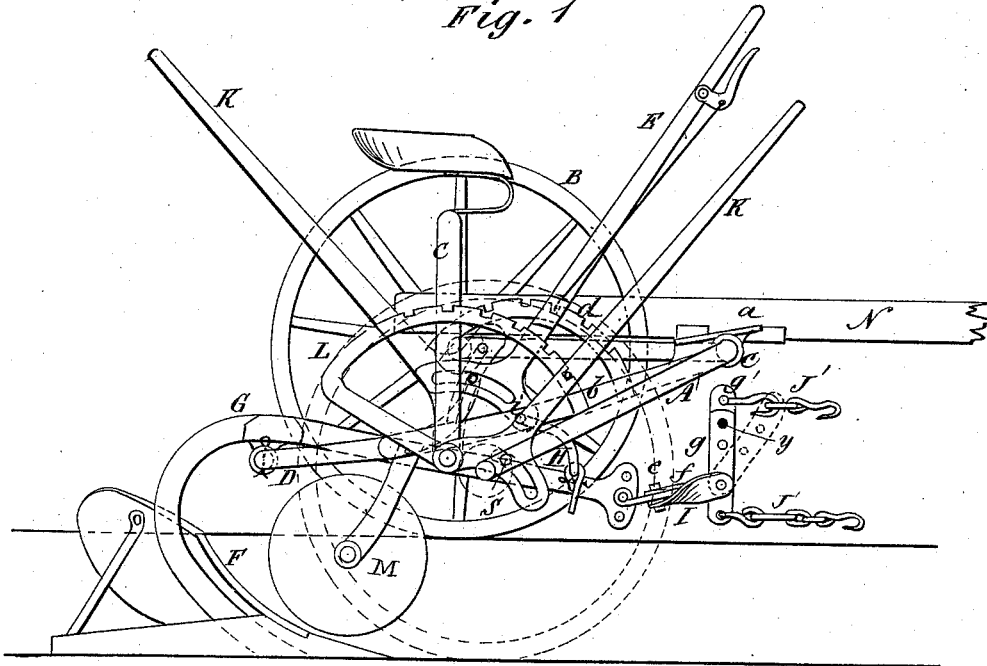
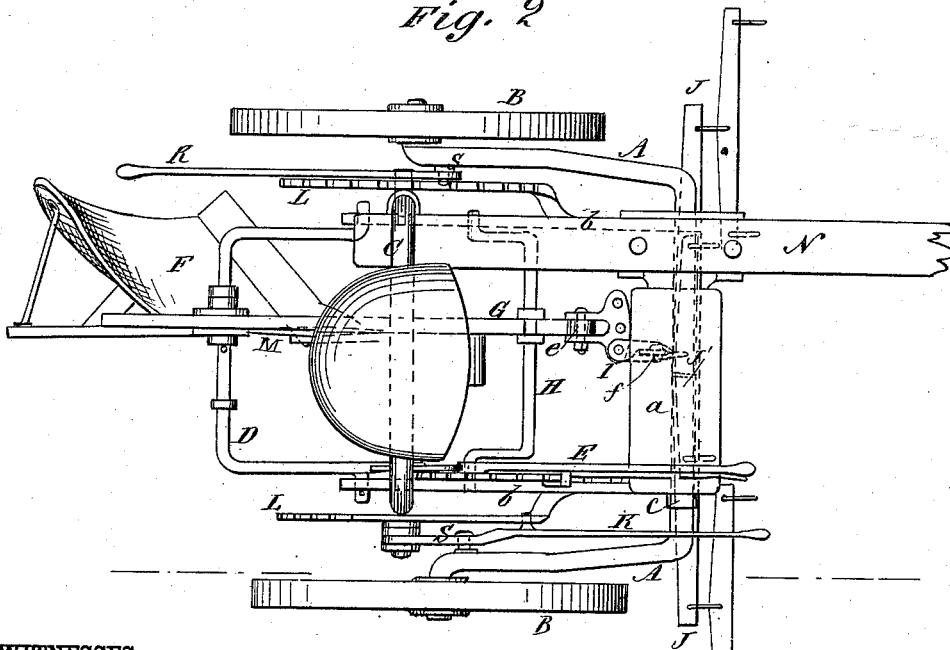


Fig. 2



WITNESSES:

C. Neveu
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ELIJAH C. BUDD, OF PRAIRIE GREEN, ILLINOIS.

IMPROVEMENT IN SULKY-PLOWS.

Specification forming part of Letters Patent No. **199,689**, dated January 29, 1878; application filed October 6, 1877.

To all whom it may concern:

Be it known that I, ELIJAH C. BUDD, of Prairie Green, in the county of Iroquois and State of Illinois, have invented a new and Improved Sulky-Plow, of which the following is a specification:

The invention will first be described in connection with the annexed drawings, forming part of this specification, and then pointed out in the claim.

In the drawings, Figure 1 is an elevation of one side of the machine adjusted so that one wheel will run in the furrow and the other on the unplowed land, and Fig. 2 is a top view of the machine with a portion of the draft-tongue removed.

Similar letters of reference indicate corresponding parts.

The letter A designates the main frame, the ends of which form the axles for two transporting-wheels, B B. On this frame is secured a foot-rest, *a*, also the draft-tongue N, which latter is arranged on the left-hand side, and secured rigidly, by means of a staple, to one of the uprights of an arch, C, to which the driver's seat is attached. This arch C is secured rigidly to the rear ends of two arms, *b b*, which are constructed with a long tube, *c*, on their front ends, to which the two parts forming the frame A are pivoted. To the rear ends of the two arms I pivot an arch-shaped frame, D, one of the arms of which is curved upward, and provided with a pin that enters a curved slot in the lower enlarged end of a hand-lever, E. This hand-lever E is pivoted at *i* to one of the arms *b*, and it is held fast, when it is adjusted, by means of a catch-rod, that engages with a notched segment, *d*.

The catch-rod is operated by grasping the handle of lever E, and the notched segment *d* is rigidly secured to one of the arms *b*, and also to the adjacent vertical portion of the arch C.

F designates a turn-plow, which is applied rigidly to a curved beam, G, that is pivoted in a suitable manner on the transverse portion of the frame D. The beam is so applied to the frame D that it can be adjusted on the right or left hand side of this frame, as circumstances may require. The front part of this beam passes loosely through a loop which

articulates on a stirrup, H, pivoted to the arms *b*, and on the front end of this beam is a clevis, I, which is adjustable vertically and laterally. To the perforated part *e* of the clevis I a link, *f*, is pivoted, and on the end of this link two levers, *g g'*, have a common fulcrum. The upper portions of these levers are perforated, and connected together by means of a wooden or other fragile pin, (lettered *y* in Fig. 1,) which will break in the event of the plow meeting with an obstruction that might injure the machine.

To the lower end of the lever *g* a double-tree, J, for two horses, is attached, and to the upper end of the lever *g'* a single-tree, J', for a middle horse, is attached. It will thus be seen that the team draws direct from the plow-beam, which is so hung that the plow can accommodate itself to inequalities of ground.

Each one of the arms of the frame A has a stud, *s*, fixed to it, which is free to play in a curved slot formed in the lower enlarged end of a hand-lever, K. The two hand-levers K are arranged in close relation to the driver's seat, and are pivoted to the lower ends of the vertical portions of the arch C. The levers K are allowed to spring laterally, and they are provided with studs, which are designed to engage with notches in the peripheries of segments L, fixed to the lower ends of the arch C. By this arrangement the driver can raise or depress either side of the frame of the machine, and level the same under all circumstances.

In practice I shall apply to the levers K catches similar to the one shown on the lever E. I shall also use a circular rotating colter, M, applied to a standard on the plow-beam.

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

The combination, with plow-beam G, pivoted to frame D, of the loosely-swinging yoke attached to plow-beam by a loop that slides thereon, as shown and described, for the purpose specified.

ELIJAH CAREY BUDD.

Witnesses:

J. M. G. BEARD,
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