

J. R. CUMMINS.

GANG-PLOW.

No. 187,518.

Patented Feb. 20, 1877.

Fig. 1.

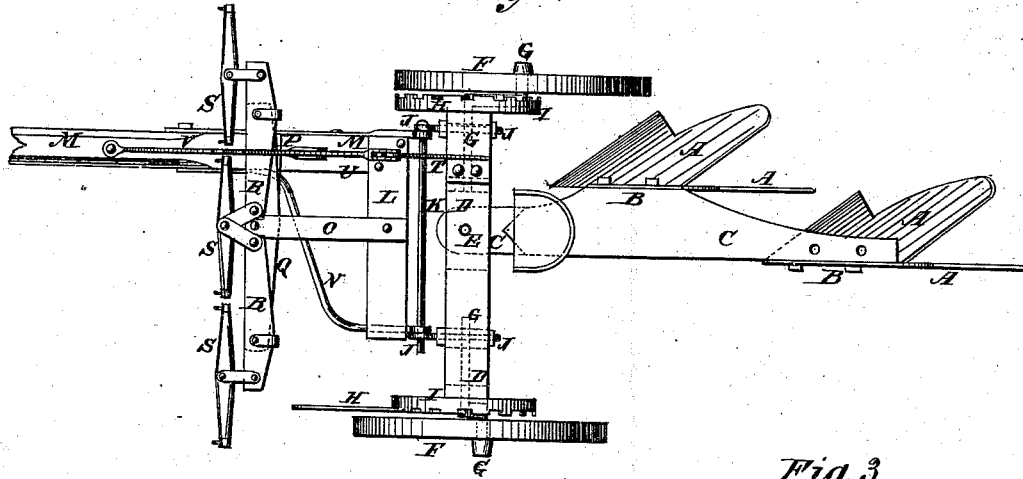


Fig. 3.

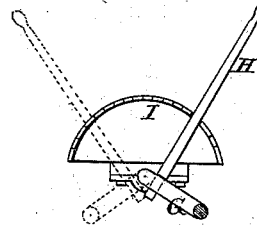
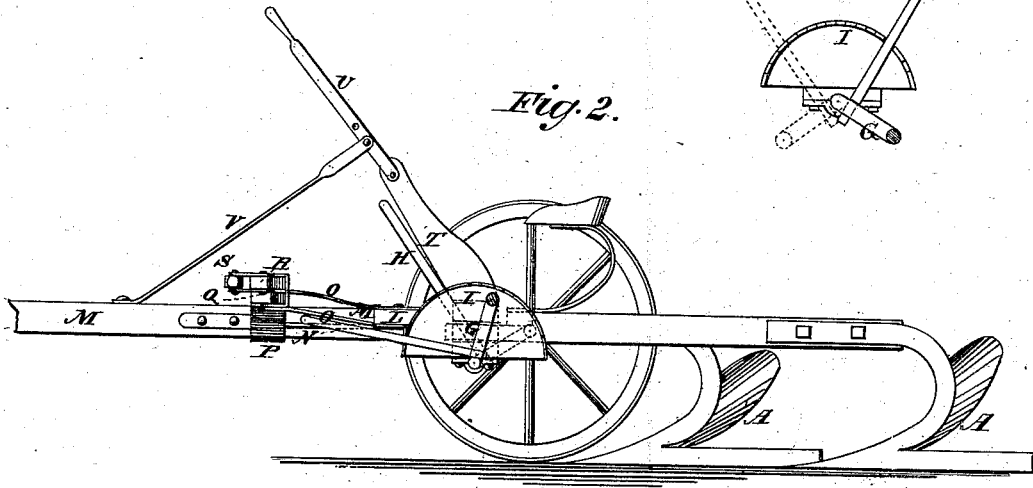


Fig. 2.



WITNESSES:

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JOHN R. CUMMINS, OF MCKINNEY, TEXAS.

IMPROVEMENT IN GANG-PLOWS.

Specification forming part of Letters Patent No. 187,518, dated February 20, 1877; application filed December 4, 1876.

To all whom it may concern:

Be it known that I, JOHN RANDOLPH CUMMINS, of McKinney, in the county of Collins and State of Texas, have invented a new and useful Improvement in Gang-Plows, of which the following is a specification:

Figure 1 is a top view of my improved gang-plow. Fig. 2 is a side view of the same, one of the wheels being removed.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved gang-plow, which shall be so constructed that it may be readily adjusted to cause the plows to take or leave land, and which will enable the wheels to be adjusted closer to or farther from the plows, as may be desired.

The invention will first be described in connection with the drawing, and then pointed out in the claim.

A are the plows, the curved standards B of which are bolted to the opposite sides of the beam C, and the one at a proper distance in front of the other. The plow-beam C is made wide, or has projections formed upon it or blocks bolted to it, to bring the plows to the proper distance apart laterally. The forward end of the beam C is pivoted in a slot in the axle D by the king-bolt E. F are the wheels, which revolve upon the outer arms of the crank-axles G, the inner arms of which work in bearings attached to the under side of the end parts of the axle D. In the middle part of each of the crank-axles G, near its inner arm, is formed a hole to receive a lever, H, which moves along the notched flange of a semicircular plate, I, attached to the end of the axle D, to enable the axle D and with it the forward end of the plow-beam C to be adjusted, and held at any desired distance from the ground.

By this construction by removing the levers H, and inserting them from the other side of the crank-axles G, the said crank-axles may be inclined forward or rearward, to bring the wheels F farther from or closer to the plows,

as the character of the ground and the weight of the plowman may require.

To the axle D upon the opposite sides of, and equally distant from, the king-bolt E, and at right angles therewith, are attached two eyebolts, J, each of which has two nuts screwed upon it, one upon each side of the said axle D. To the eyes of the eyebolts are hinged, by a rod, K, eyes attached to the ends of a cross-bar, L, to the end of which, next the plowed land, is rigidly attached the rear end of the tongue M. The connection between the cross-bar L and the tongue M is strengthened by the brace N, the rear end of which is attached to the other end of the cross-bar L, and its forward end is attached to the side of the tongue M. To the center of the cross-bar L are attached the rear ends of the straps or bars O. To and between the forward ends of the straps O, and to and above the outer end of the strap or arm P, is pivoted the center of the triple-tree Q. The inner end of the strap or arm P is attached to the tongue M. To the ends of the triple-tree Q are pivoted the double-trees R at points between their centers and outer ends. S are the three whiffletrees, the center one of which is connected with the inner ends of the two double-trees R. The two outer whiffletrees S are connected with the outer ends of the two double-trees R.

By this construction the draft-bars are supported in a horizontal position by the straps or bars O P, and the draft is applied in line with the plow-beam, while the plows are guided by means of the tongue M. The forward end of the tongue M may be adjusted laterally, to cause the plows to take and leave land by adjusting the nuts upon the eyebolts J that hinge the cross-bar L of the tongue M to the axle D. To the axle D is attached a forwardly-inclined standard, T, to the upper end of which is pivoted the end of a lever, U. To the lever U, at a little distance from its pivoted end, is pivoted the rear end of the rod V, the forward end of which is attached to the tongue M, so that by operating the lever U the axle

D may be turned to raise the plows from, and lower them to, the ground.

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

In a gang-plow, the crank-axes G, provided with a mortise upon their front and rear sides, in combination with the removable levers H and notched segments I, whereby the levers

may be inserted in either side of the crank-axes, and locked in the ratchet, adjusting the wheels as to height, and causing them to run in front or rear of the main axle, substantially as and for the purpose specified.

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Witnesses:

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