2 Sheets—Sheet 1.

W. C. ROGERS.

Sulky-Plow.

No. 204,091. Patented May 21, 1878.

Fig. 1.

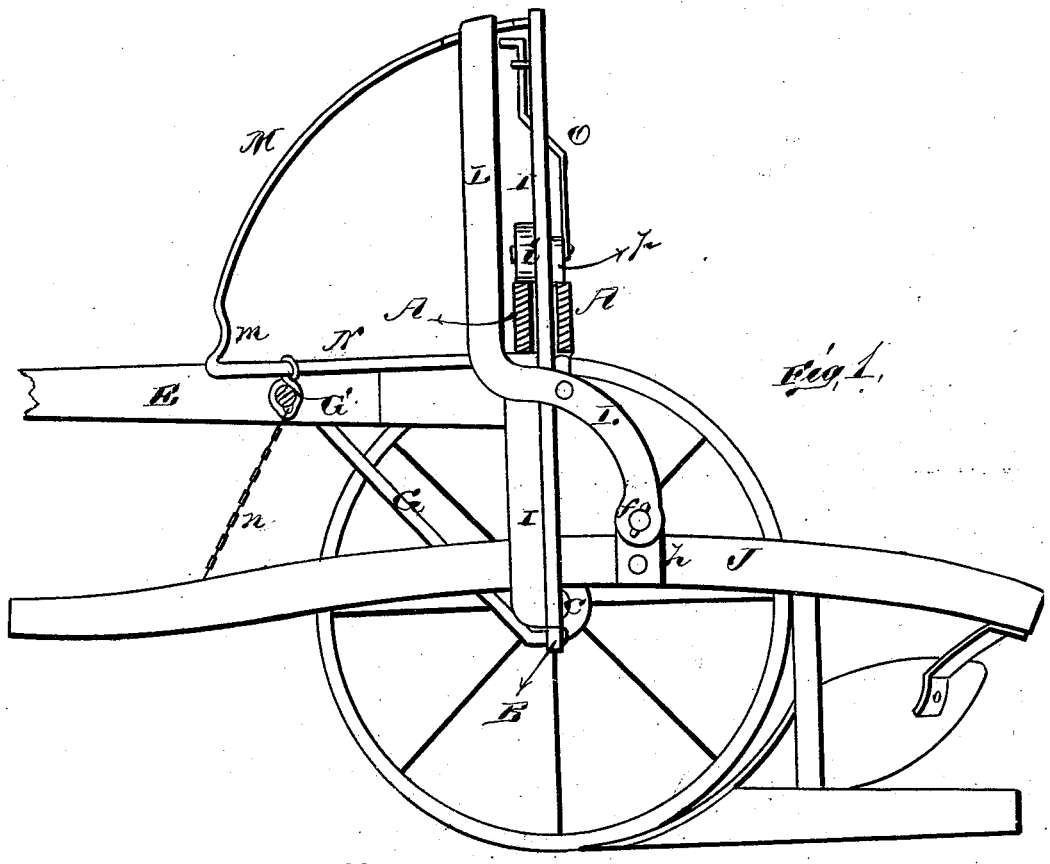
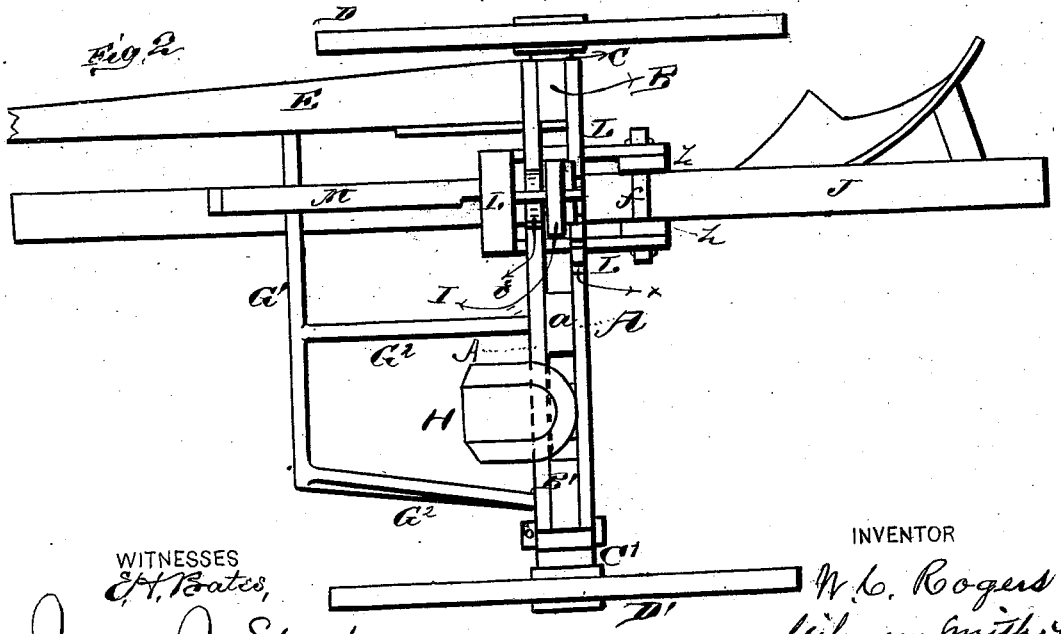


Fig. 2.



WITNESSES

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2 Sheets—Sheet 2.

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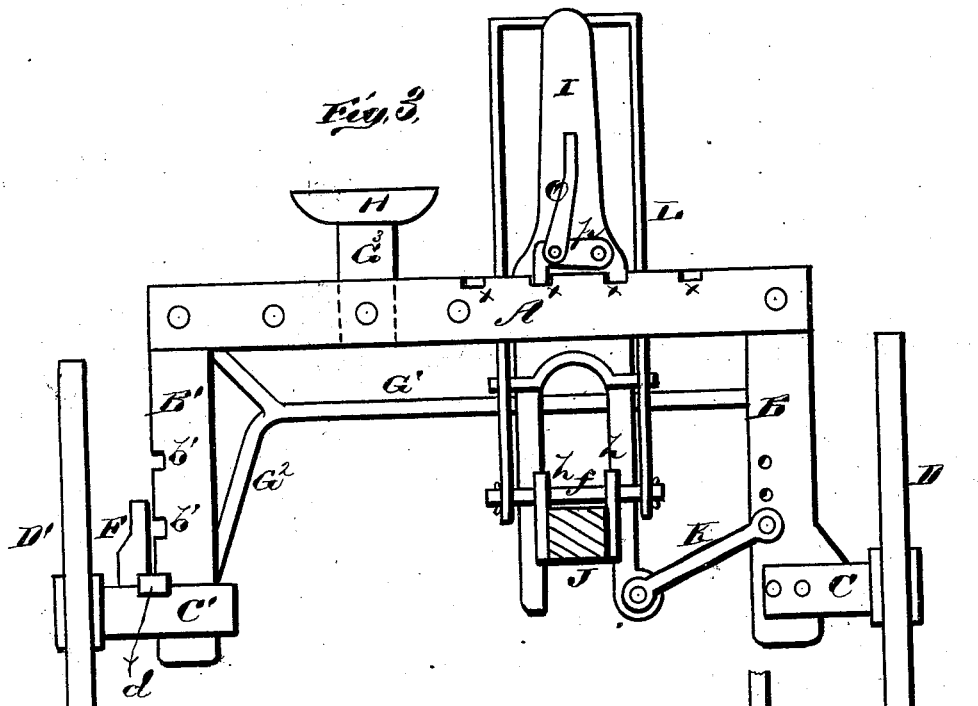
Fig. 3.



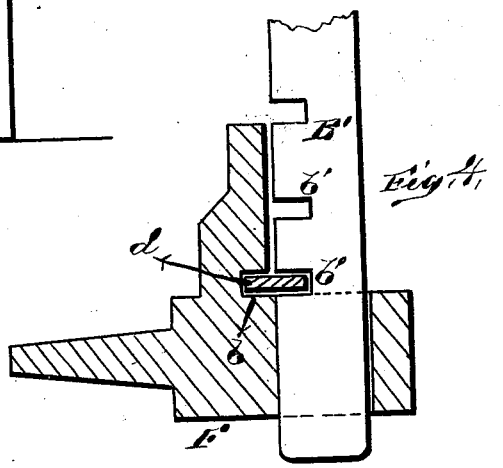


Fig. 4.

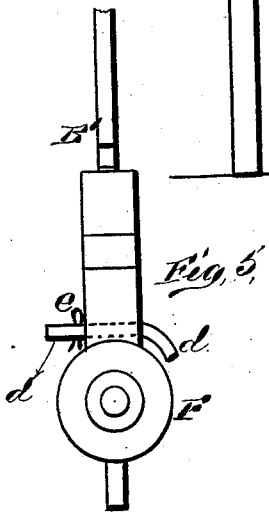


Fig. 5.

Fig. 6.

WITNESSES
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UNITED STATES PATENT OFFICE.

WALLACE C. ROGERS, OF PAPILLION, NEBRASKA.

IMPROVEMENT IN SULKY-PLOWS.

Specification forming part of Letters Patent No. **204,091**, dated May 21, 1878; application filed March 16, 1878.

To all whom it may concern:

Be it known that I, WALLACE C. ROGERS, of Papillion, in the county of Sarpy and State of Nebraska, have invented a new and valuable Improvement in Sulky-Plows; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side view of my sulky-plow. Fig. 2 is a plan view. Fig. 3 is a rear view. Fig. 4 is a sectional detail; and Figs. 5 and 6 are details thereof.

The nature of my invention consists in certain improvements in a plow-sulky, as will be hereinafter more fully set forth.

The annexed drawings, to which reference is made, fully illustrate my invention.

The frame of my plow-sulky consists of two parallel metal bars, A A, set edgewise, as shown, and connected at their ends by having vertical bars B B′ placed between them, and the said parts firmly riveted or bolted together, leaving a narrow space between said bars A A. At suitable points small plates *a a* are inserted in said space, and riveted or bolted to strengthen the same.

The bars B B′ extend downward, and to the lower end of the bar B is secured a spindle, C, on which the wheel D is placed and revolves. On the left bar B′ is a spindle, C′, carrying the wheel D′. This latter spindle is, however, movable up and down on the bar, it being formed with a slot or mortise, through which the bar B′ is passed. The spindle C′ is provided with an upwardly-extending arm, F, close to the outer edge of the bar B′, and at the base, in the inner side of said arm F, is made a slot, *b*. A series of slots, *b′*, are made in the outer edge of the bar B′. The spindle C′ is adjusted to any desired point on the bar B′, so that the slot *b* in the arm F will coincide with one of the slots *b′* when a key, *d*, is passed through the two slots, said key being held by a pin or spring-key, *e*, thus holding the spindle firmly to the bar. The wheel D′ can thus be adjusted and held firmly at any desired height.

E is the tongue, fastened permanently in any suitable manner to the bar B. A brace, G, connects the lower end of said bar with the tongue. Another brace, G^1, extends from the side of the tongue parallel with the bars A, and is then bent downward, and connects with the lower end of the bar B′, the horizontal part of said brace G^1 being connected to the bars A by means of braces G^2, as shown.

The frame of my plow-sulky is thus made very light, while at the same time it is as strong and durable as required for the work designed.

Between the bars A A, to the left of the center, is secured the support G^3 for the seat H. Between the bars A A, to the right of the center, is passed a plate or bar, I, the lower end of which is forked and straddles the plow-beam J, said plate being supported upon the upper edge of the front bar A by means of a roller, *i*, mounted on a stud on the front side of said plate I. The outer prong of the plate or bar I is held at its lower end by a pivoted arm, K, connected with the bar B of the sulky-frame, the connection between said arm and bar being adjustable up and down by means of a series of holes made in the bar.

The plow-beam J is provided on its sides with two pivoted plates, *h h*, which extend above the beam, and are hung upon a rod, *f*, which is fastened in the ends of a stirrup or lever-frame, L. The arms of this stirrup pass forward under the bars A, and above the brace G^1, and are pivoted to the side edges of the forked plate I, as shown. From the upper end of this plate extends a quadrant, M, the lower front end of which is attached to or forms an arm, N, and this arm runs back and connects with the plate I immediately below the bars A. The quadrant M is made of spring metal, and forms near its lower front end a catch, *m*.

The stirrup or lever-frame L is made of such size that when thrown down forward it will be caught in said catch *m*, and hold the plow elevated above the ground.

The arm N, brace G^1, and front end of plow-beam are connected by a chain, *n*.

The plow may be tilted right or left, as desired, by means of the forked plate I, and held at any angle desired by means of a dog, *p*,

pivoted to said plate, and taking into notches *x* in the upper edge of the rear bar A, said dog being operated by a sliding lever, O.

I am aware that means have heretofore been employed for adjusting the wheel-spindle, but they differ from mine in construction.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a plow-sulky, the frame consisting of the bars A A, vertical bars B B′, spindles and wheels. in combination with tongue E and braces G G^1 G^2, substantially as and for the purposes set forth.

2. The combination of the bars A A, forked plate or bar I, with roller *i*, plow-beam J, and the dog *p*, taking into notches on one of the bars A, substantially as and for the purposes set forth.

3. The combination, with the forked plate I, and plow-beam J, of the plates *h h*, rod *f*, pivoted stirrup L, the quadrant M, formed with the catch *m*, and a laterally-adjustable device, all substantially as and for the purposes set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WALLACE C. ROGERS.

Witnesses:
HORACE ROGERS,
WALTER NELSON.