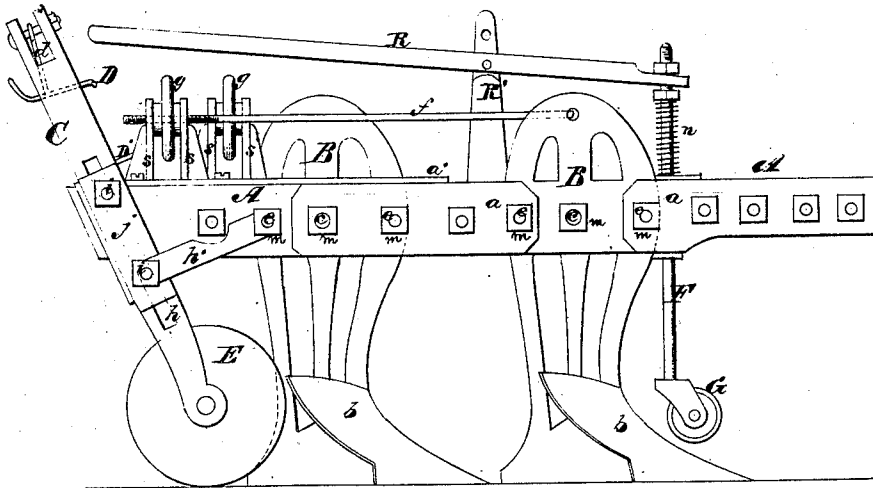


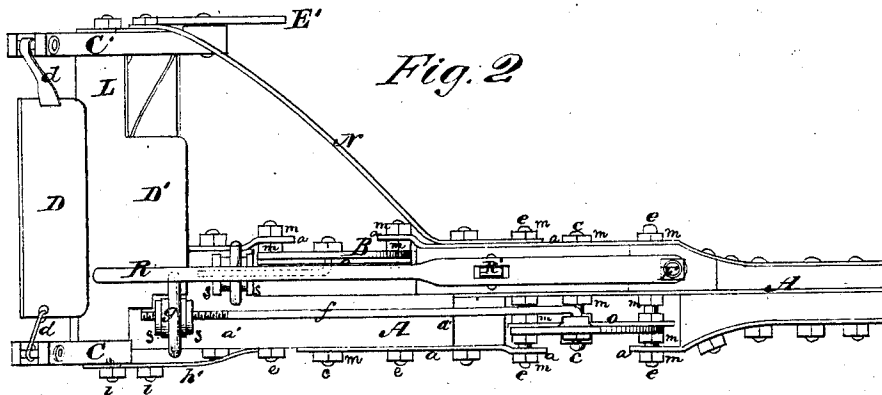
WHEEL PLOW.

*Fig. 1*

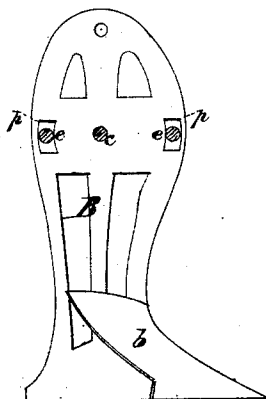
Patented Sept. 12, 1871.



*Fig. 2*



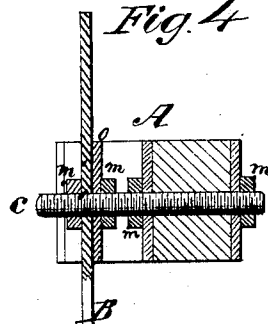
*Fig. 3*



*Witnesses.*

R. J. Campbell  
 J. V. Campbell

*Fig. 4*



Inventor

Wm J. Conner

Major. Jewell & Lawrence.

# UNITED STATES PATENT OFFICE.

WILLIAM J. CONNOR, OF BENTON, ILLINOIS.

## IMPROVEMENT IN WHEEL-PLOWS.

Specification forming part of Letters Patent No. 118,792, dated September 12, 1871.

*To all whom it may concern:*

Be it known that I, WILLIAM J. CONNOR, of Benton, in the county of Franklin and State of Illinois, have invented a new and Improved Gang-Plow; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is an elevation of one side of the plow. Fig. 2 is a top view of the same. Fig. 3 shows one of the plows detached from its beam. Fig. 4 is a section taken vertically and transversely through the beam and through the standard of the plow.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to plows of that class known as gang-plows, wherein one plow is arranged in front of and to one side of the other.

My invention relates to a mode of applying two plows into recesses formed in a single beam, and so attaching the standards that the plows can be adjusted either laterally or so as to give them any desired degree of pitch; also, to a mode of supporting the plow-beam upon wheels, and making the beam vertically adjustable for plowing deeper or shallower, as may be required; also, to hand-wheels and screw-rods so arranged that the attendant, while sitting in his seat upon the machine, can readily give to the plows any pitch required, as will be hereinafter explained.

The following description of my invention will enable others skilled in the art to understand it.

In the accompanying drawing, A represents the plow-beam, which is composed of short beams bolted securely together, with a central plate between them and plates applied on the outer sides for adding strength to the beam, and affording solid bearings for the nuts of the transverse bolts used. The sections composing this beam A are put together in such manner as to leave two recesses in opposite sides of the central plate, and arranged one in front of the other, at a proper distance apart to receive the plow-standards. The front end of the beam A is contracted laterally, and may be provided with a suitable clevis for the attachment of the team. The rear end of the beam is supported by means of wheels E E' and inclined slotted standards C C'. The standard C is secured directly to the beam A by means of bolts *c c*, which pass through the beam through

a long slot which is made through the standard C, and through a face-plate *j*. This standard is strengthened against backward thrust by means of an inclined brace, *b*, shown clearly in Fig. 1. The furrow-wheel E is applied to the lower end of the standard C. The standard C' is set off from the land side of the beam A, and secured to transverse braces L by means of bolts and nuts, the former of which pass through a slot made through the standard C', precisely as allowed for the standard C. The long diagonal braces N sustain the standard C' against backward strain. On the upper bar of the transverse brace L is a foot-rest, D', for the attendant, and above this rest is his seat D, which is suspended by its end from the upper ends of the standards C C', by means of pivoted hangers *d d*, which allow the standards C C' to be adjusted independently of one another. The front end of the beam A has applied to it a caster-wheel, G, which is on the lower end of a rod, F, that can move freely up and down through the beam A. To the upper end of the rod F the front end of a long lever, R, is attached which has its fulcrum on a post, R', rising from the beam A, and which extends back within reach of an attendant when on the seat D. Between the front end of lever R and the beam A is a spring, *a*, which will hold up the said wheel when the rear end of lever R is released. By raising the rear end of lever R the caster-wheel can be made to bear upon the ground and the beam A can be lifted so as to turn or guide the machine. The plows have the well-known form of mold-board, shares, and land-sides; but their standards B are very wide, and are of a skeleton form, as shown in Figs. 1 and 3. Each standard is applied in one of the recesses formed in the beam A, and through it three screw-bolts, *e e* and *c*, pass transversely, and are confined by means of nuts *m*. The standard B is confined to the three screw-bolts by means of nuts on opposite sides of it, and the three bolts are confined to the beam A and outside plates *a a* by means of nuts. Thus it will be seen that by loosening said nuts the plow-beams can be moved laterally toward or from the middle of the width of the beam, and secured fast again in the desired position. The intermediate screw-bolt of each plow *c* serves as a pivot about which the plow can be vibrated, and the screw-bolts *e e* pass through vertically oblong slots *p p* (see Fig.

3) made through the plow-beams to allow of said vibration. To the upper end of each plow-beam a rod, *f*, is pivoted which extends back to the rear of beam A, and is passed through a hand-wheel nut, *g*, supported between standards *s s*. By these means the attendant, while sitting in his seat D, can move either one of the plows about its screw-bolt *c*, and thus give the desired pitch to the plow-points.

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

1. The slotted and pivoted plow-standard B, in combination with the rod *f* and hand-wheel nut *g* for adjusting the pitch of the plow, substantially as described.

2. The beam A recessed, as described, to receive the standards B of the plows, and furnished with screw-bolts and nuts which allow the plows to be adjusted laterally and serve to firmly sustain them in position, substantially as described.

3. The slotted and vertically-adjustable standards C C', wheel E, beam A, plows B *b*, and swinging-seat D, arranged substantially as described.

WILLIAM J. CONNOR.

Witnesses:

JAMES M. PAYNE,

WILLIAM H. <sup>his</sup> X PAYNE.  
mark.