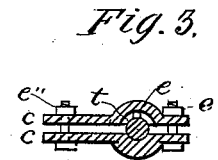
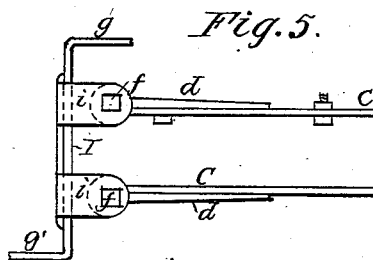
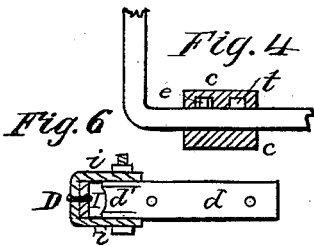
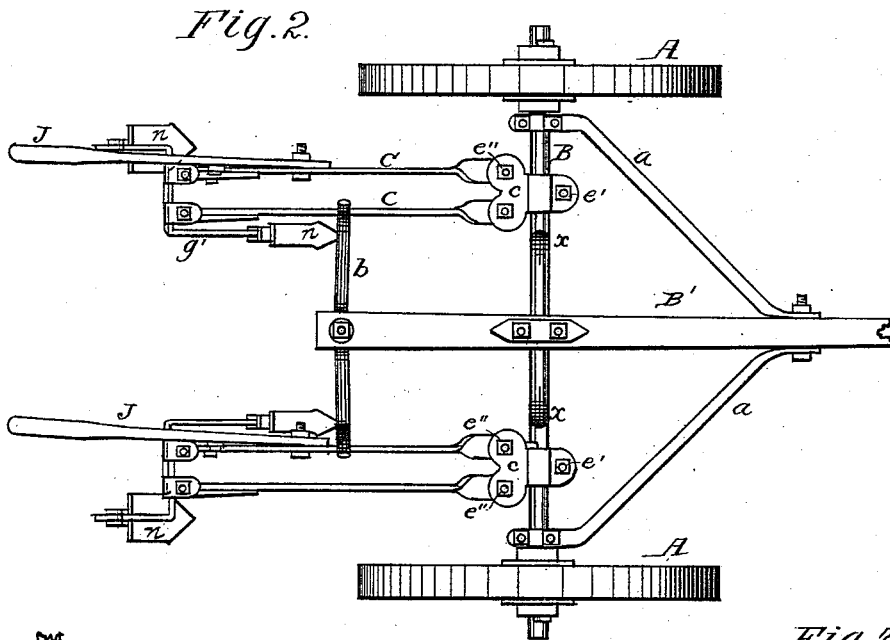
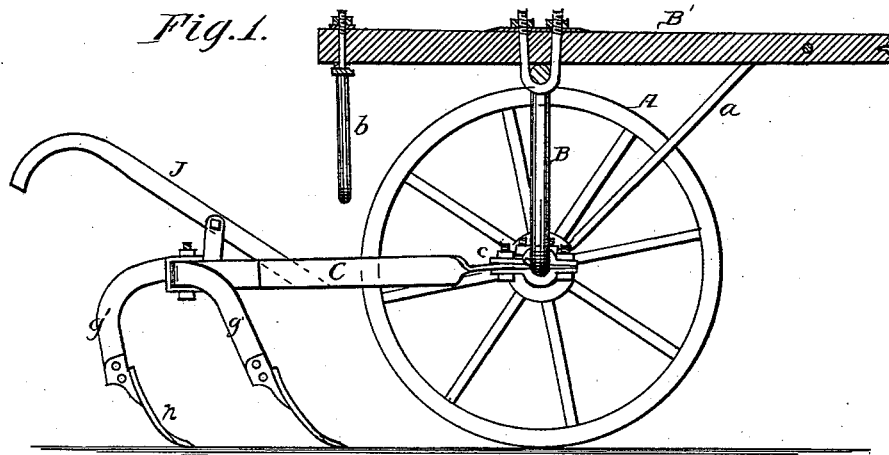


D. KERSCHNER, T. S. & F. M. MONGER.
Plow.

No. 208,320.

Patented Sept. 24, 1878.



Attest:
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By their attorney
Charles E. Foster*

UNITED STATES PATENT OFFICE.

DANIEL KERSCHNER, THOMAS S. MONGER, AND FRANCIS M. MONGER, OF
CONNERSVILLE, INDIANA.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **208,320**, dated September 24, 1878; application filed
March 11, 1873.

To all whom it may concern:

Be it known that we, DANIEL KERSCHNER, THOMAS S. MONGER, and FRANCIS M. MONGER, of Connersville, Indiana, have invented an Improved Plow, of which the following is a specification:

Our invention is a straddle-cultivator constructed, as fully described hereinafter, to facilitate the adjustment of the plows and securely connect the plows and adjusting devices to the frame without interfering with their proper movements.

In the drawing forming part of this specification, Figure 1 is a side elevation of a cultivator with our improvements; Fig. 2, a plan view, and Figs. 3, 4, 5, and 6 detached views, drawn to an enlarged scale.

A are the wheels, and B the axle, which is arched between the points *x x*, and carries the tongue B', from which braces *a* extend toward the outer ends of the axle; and from the rear end of the tongue depend hooked arms *b*. On each straight portion of the axle is an upwardly-projecting pin, *e*, adapted to recesses *t* in the uppermost of two plates, *c c*, clamped to the axle in front by a bolt, *e'*, and at the rear by bolts *e'' e''*, which also serve as pivots for parallel bars or beams C C. To the rear end of each bar is riveted an arm, *d*, having an enlargement, *d'*, through an eye in which passes a vertical bolt, *f*, pivoting the arm between ears *i i* of a plate, D, and between the said ears, at the rear of the arm *d*, passes a bar, I, one end, *g*, of which is bent forward and the other end, *g'*, backward, so as to form standards for shovels *n* thus arranged on different lines, as shown. To one of each pair of bars C C is secured a handle, J, suitably braced. The recessed plate *c*, in connection with the pin *e* on the axle, secures the beams C to the axle without interfering with their proper lateral adjustment, as may be necessary at any time, the beams being at all times parallel, while the standards are maintained parallel to the tongue. The attachment also per-

mits either pair of beams to be raised, so as to place the inner beam upon the hook-bar *b*, and thus maintain it and the plows out of action.

Should it be necessary to adjust the connecting-plates to or from the wheel, the plates and their attachments are turned to a vertical position until the space between the plates is opposite the pin *e*, when the plates may be moved to bring the other recess *t* opposite the pin, which will enter said recess as the parts are brought to a working position, and will retain them as before.

The plates D, with their ears *i*, combined with the arms *d* and enlargements *d'*, form a strong, secure, and easily-adjusted connection between the beams and standards or shovel-bars, while the construction of the latter in one piece, bent forward and backward, and bolted to the plate D, constitutes an extremely simple, but strong and durable, mode of attachment.

We claim—

1. The arched axle B and its pins *e*, combined with the clamping-plates *c c*, having recesses *t t*, and pivoted to the adjustable beams C of the plows, and arranged to form an intervening space for the passage of the pins *e*, all substantially as set forth.

2. The combination, with the parallel beams C C, of the plate D, ears *i i*, and bar I, bolted to the plate between the ears, and extended backward and forward to form the standards *g g*, substantially as set forth.

3. The combination of the plate D, ears *i*, pivoted arms *d*, having enlargements *d'* and bolted to the beams C C, as set forth.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

DANIEL KERSCHNER.
THOMAS S. MONGER.
FRANCIS M. MONGER.

Witnesses:

JOSEPH I. LITTLE,
JOHN H. FRITCH.