R. S. HIGGINS.
Riding-Plow.

No. 206,732. Patented Aug. 6, 1878.

FIG. 1.

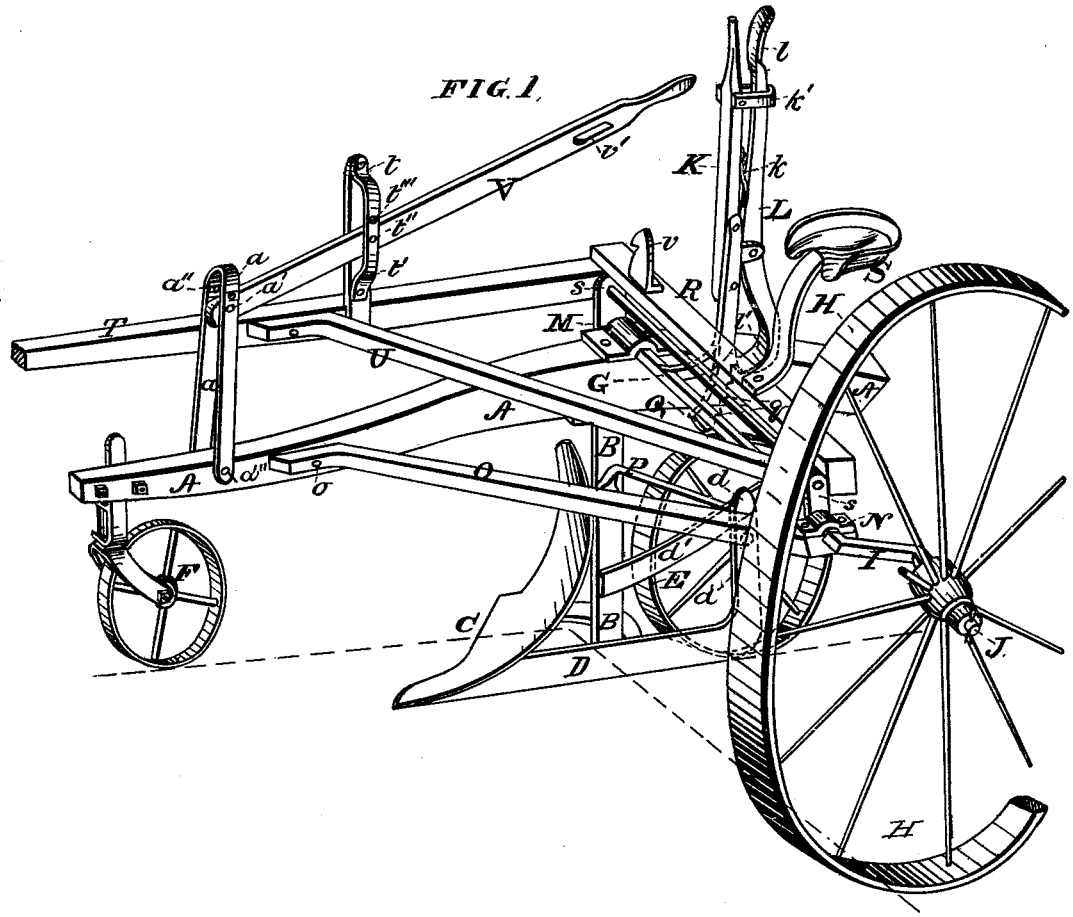


FIG. 2.

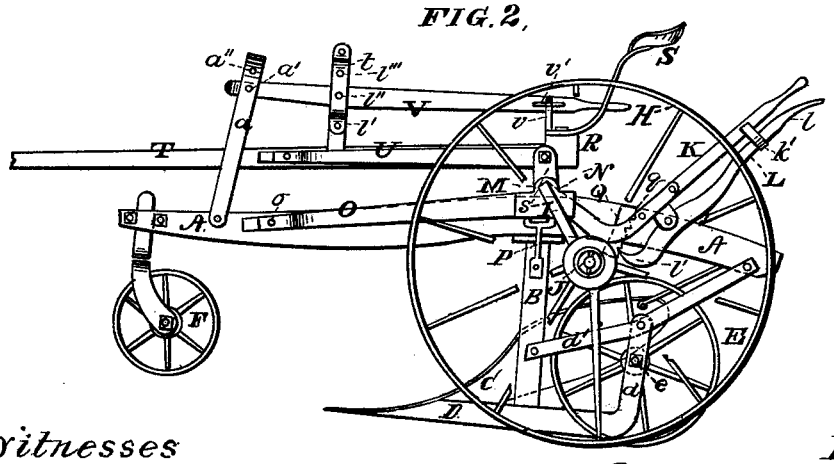
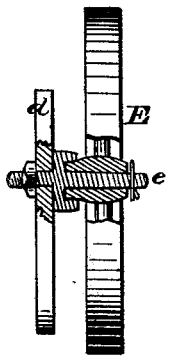


FIG. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

ROZANDER S. HIGGINS, OF NEOGA, ILLINOIS.

IMPROVEMENT IN RIDING-PLOWS.

Specification forming part of Letters Patent No. **206,732**, dated August 6, 1878; application filed December 29, 1877.

To all whom it may concern:

Be it known that I, ROZANDER S. HIGGINS, of Neoga, in the county of Cumberland and State of Illinois, have invented new and useful Improvements in Riding-Plows, of which the following is a specification:

My improvement consists, first, in combining, with a beam-standard and share, a land-side constructed with a vertical arm, and a rod bracing said arm to the beam and standard, the vertical arm being adapted to carry a furrow-wheel.

My improvement consists, further, in peculiar means for careening the plow, as hereinafter described.

In the accompanying drawings, Figure 1 is a perspective view of my improved riding-plow, the various parts being represented in working position. Fig. 2 is a side elevation of the same, showing the position of the various parts when the implement is to be removed from one place to another. Fig. 3 is a rear view of the land-side and furrow-wheel detached.

Like letters of reference indicate corresponding parts in the different figures.

My improved plow is constructed with a beam, A, standard B, share C, furrow-wheel E, caster-wheel F, crank-axle G, and land-wheel H, all of which may be of any approved construction.

D is the landside, constructed with a vertical arm, *d*, which is braced to the beam and standard by means of a bar or rod, *d'*. The arm *d* is provided with a stud, *e*, which forms the journal for the wheel E to rotate upon. This wheel E is secured at such a height as to run just beneath the heel of the plow, so as to carry it clear of the bottom of the furrow from heel to the point of the plow.

The caster-wheel F is preferably so applied to the beam as to be adjustable vertically.

The inner end of the axle G has a bearing, M, on the beam, and near its outer end has a bearing, N, on the end of a brace, O, whose front end, *o*, is bolted to the beam. The outer end of the brace O is supported by means of a tie-rod, P, extending to the standard B.

The outer end of the axle is constructed with a crank, I, having at its extremity a spindle, J, which carries the wheel H. The axle is provided near its inner end with a lever, K, by which it is turned to careen the plow from side to side of the furrow.

A bar, L, is fulcrumed to the lever, and is constructed with a handle, *l*, at its upper end, and at its lower end with a hook, *l'*, adapted to engage in notches *q*, formed in a plate, Q, secured to the side of the beam. The hook is caused to engage with the notches by a spring, *k*, and the free end of the bar is limited in its outward movement by a loop, *k'*.

Over the axle, and extending forward, is a frame hinged to vertical plates *s s*, and adapted to form a seat-support, R, carrying a seat, S, a tongue, T, and a brace, U. To the tongue T is secured an upright, *t*, furnished with a strap-piece, *t'*. Crosswise of this strap-piece and upright is a bolt, *t''*, adjustable in a series of perforations, *t'''*, and adapted to form a fulcrum for a lift bar or lever, V, hinged to a link, *a*, by means of a bolt, *a'*, adjustable in perforations *a''*. The link *a* is hinged to the beam by means of a suitable bolt, *a'''*, so that when the link is raised the point of the plow will be elevated.

The rear end of this lever is adapted to engage with a catch, *v*, on the seat-support by means of a lug, *v'*, or other suitable device.

Having thus described my invention, the following is what I claim as new and desire to secure by Letters Patent:

1. The combination, with the beam A, standard B, and share C, of the land-side D, constructed with a vertical arm, *d*, forming a bearing for the furrow-wheel, and the rod or bar *d'*, for bracing said arm to the beam and standard, substantially as shown and described.

2. The combination of beam A, provided with plate Q, having notches *q*, the crank-axle G, the lever K, the bar L, fulcrumed to the bent lever K, and constructed with a hook, *l'*, adapted to engage in said notches, and the supporting-wheels E and H, all arranged substantially as shown and described, for careening the plow in the furrow.

ROZANDER S. HIGGINS.

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