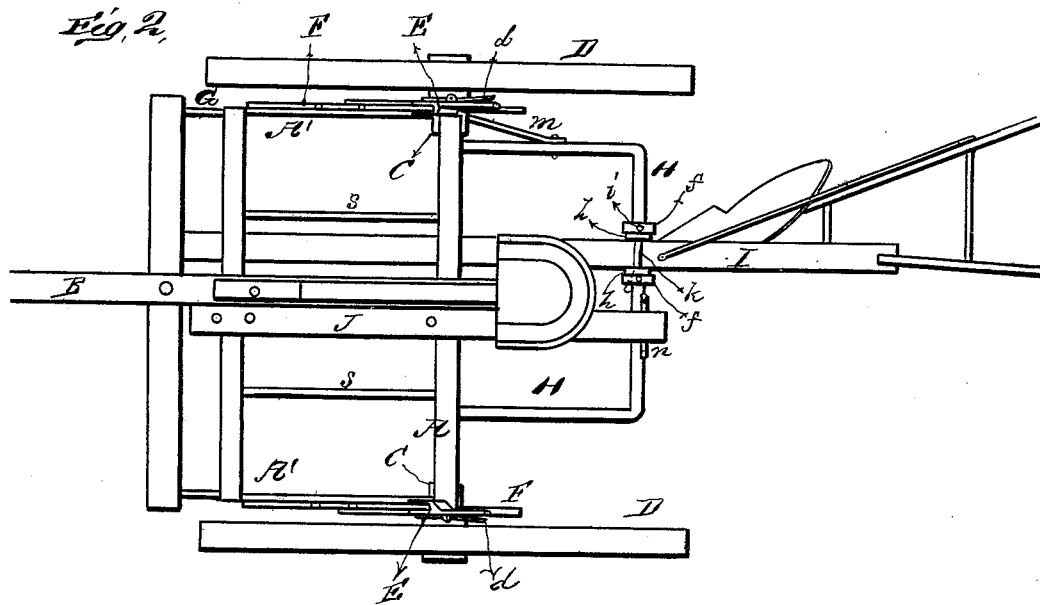
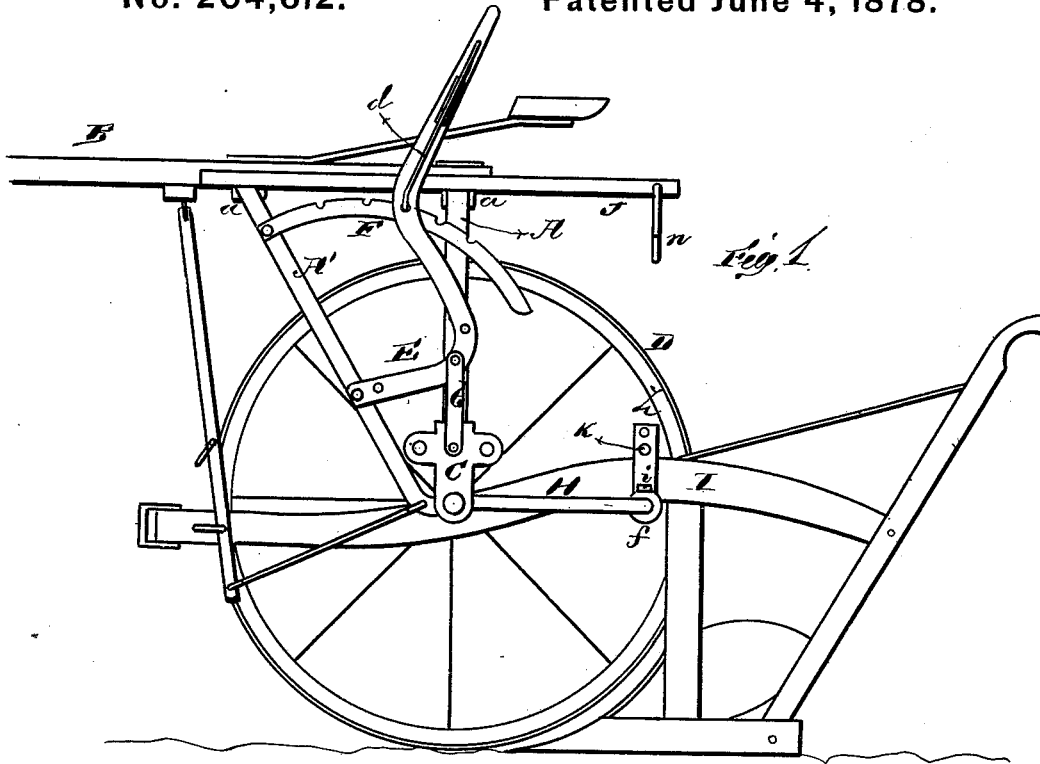


N. ROWEN & G. AMIS.
Wheel-Plow.

No. 204,612.

Patented June 4, 1878.



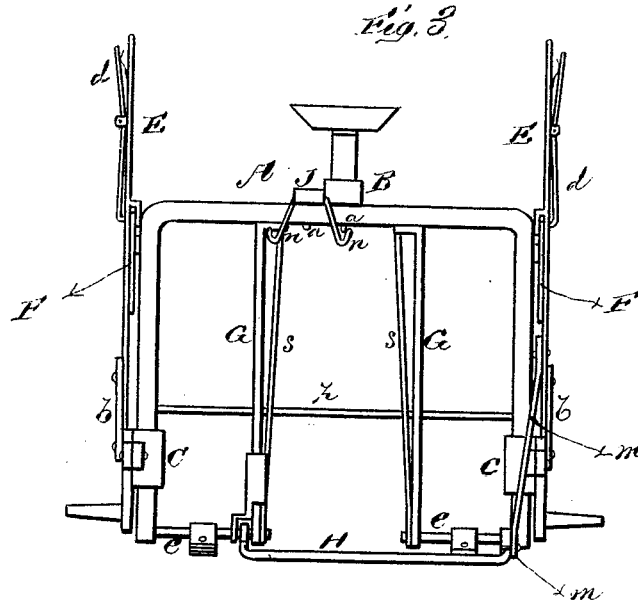
WITNESSES
E. H. Bates.
James J. Sheehy.

INVENTORS.
Nelson Rowen.
Garret Amis.
Gilmore, Smith & Co.
 ATTORNEYS.

N. ROWEN & G. AMIS.
Wheel-Plow.

No. 204,612.

Patented June 4, 1878



WITNESSES
J. H. Banta
James J. Sheehy

Nelson Rowen INVENTOR S.
Garret Amis
Gilmore, Sanisteban & Co.
 ATTORNEYS.

UNITED STATES PATENT OFFICE.

NELSON ROWEN AND GARRET AMIS, OF OSWEGO, KANSAS.

IMPROVEMENT IN WHEEL-PLOWS.

Specification forming part of Letters Patent No. **204,612**, dated June 4, 1878; application filed March 30, 1878.

To all whom it may concern:

Be it known that we, NELSON ROWEN and GARRET AMIS, of Oswego, in the county of Labette and State of Kansas, have invented a new and valuable Improvement in Wheel-Plows; and we 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 our wheel-plow. Fig. 2 is a plan view. Fig. 3 is a rear view.

The nature of our invention consists in certain improvements in a sulky-carriage for plows, as will be hereinafter more fully set forth.

The annexed drawing, to which reference is made, fully illustrates our invention.

A represents an arched axle, having its side arms extending downward at right angles. To the lower ends of the arched axle A are secured the ends of a similar axle, A', extending forward at about an angle of thirty degrees, more or less, forming a double-arched axle. To this double axle is secured the tongue B by means of clips *a a*, in such a manner that the tongue can be adjusted laterally to accommodate the sulky for two or three horses, as may be required.

The vertical arms of the axle A are provided with sliding sleeves or bars CC, from the lower ends of which project spindles to receive the wheels D D. To each arm of the axle A' is pivoted a lever, E, which curves backward and then forward and upward, as shown. This lever is at its bend connected by a pivoted link or bar, *b*, with the slide C, so as to raise and lower the wheel D, as required. The lever E is held by means of a spring-dog, *d*, in any position to a notched segmental bar, F, secured to the arms of the double axle. The axle A is, at each end, provided with an inwardly-projecting rod, *e*, the inner end of which is held by a bar, G, secured to and depending vertically from the main part of said axle A. On the rods *e e* is pivoted a bail or

stirrup, H, which extends in rear of the sulky, and to which the plow is adjustably held in the following manner: The plow-beam I rests upon the stirrup between two arms, *h h*, placed on the stirrup, and held up against the beam by collars *f f*, which are fastened by set-screws *i i*. Above the plow-beam the arms *h h* are clamped by a bolt, *k*, as shown.

It will readily be seen that the plow can be adjusted laterally on the stirrup, and held at any position desired.

One arm of the stirrup H is, by a pivoted rod or link, *m*, connected with the side lever E. This will be on the right side of the sulky for a right-hand plow and on the left side for a left-hand plow, so that the plow and the furrow-wheel may be raised and lowered simultaneously by one lever.

A gang of plows may be attached to the stirrup equally as well as a single plow.

Cultivator-beams may be connected by suitable couplings on the rods *e e*. When such are used a bar, J, is connected on top of the double-arched axle, and provided at its rear end with hooks *n n* for carrying the cultivator-beams in an elevated position to and from the field.

The ends or arms of the arched axle A' are connected by a rod, *p*, passing above the plow-beam, as shown; and braces *s s* connect the main part of said axle A' with the lower ends of the bars G G to make the frame strong and durable.

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

The combination of the stirrup H with plow connected thereto, the rod or link *m*, lever E, rod or link *b*, slide C, and wheel D, all constructed and arranged to operate substantially as and for the purposes set forth.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

NELSON ROWEN.
GARRET AMIS.

Witnesses:

JESS BROCKWAY,
W. M. SAWINS.