

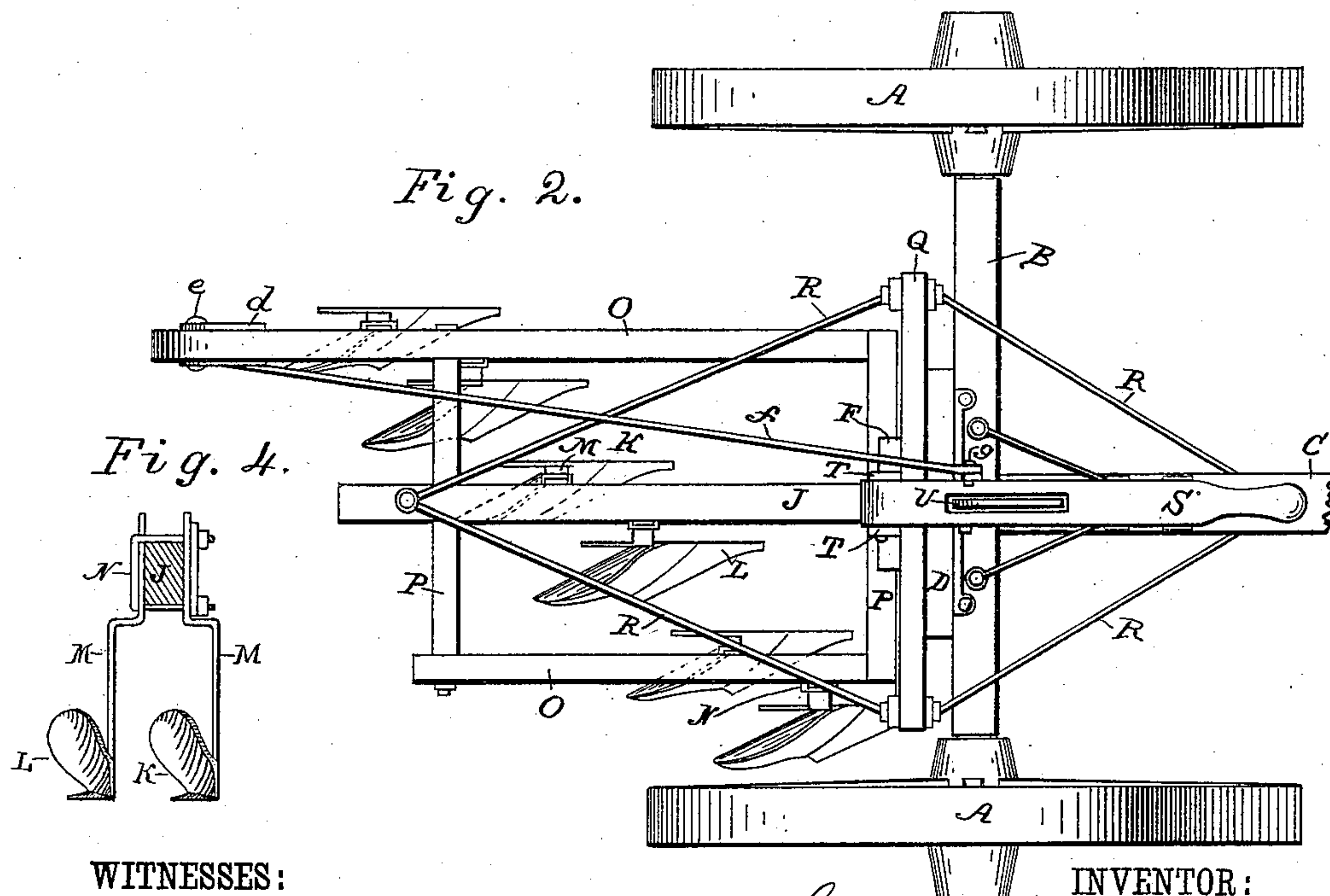
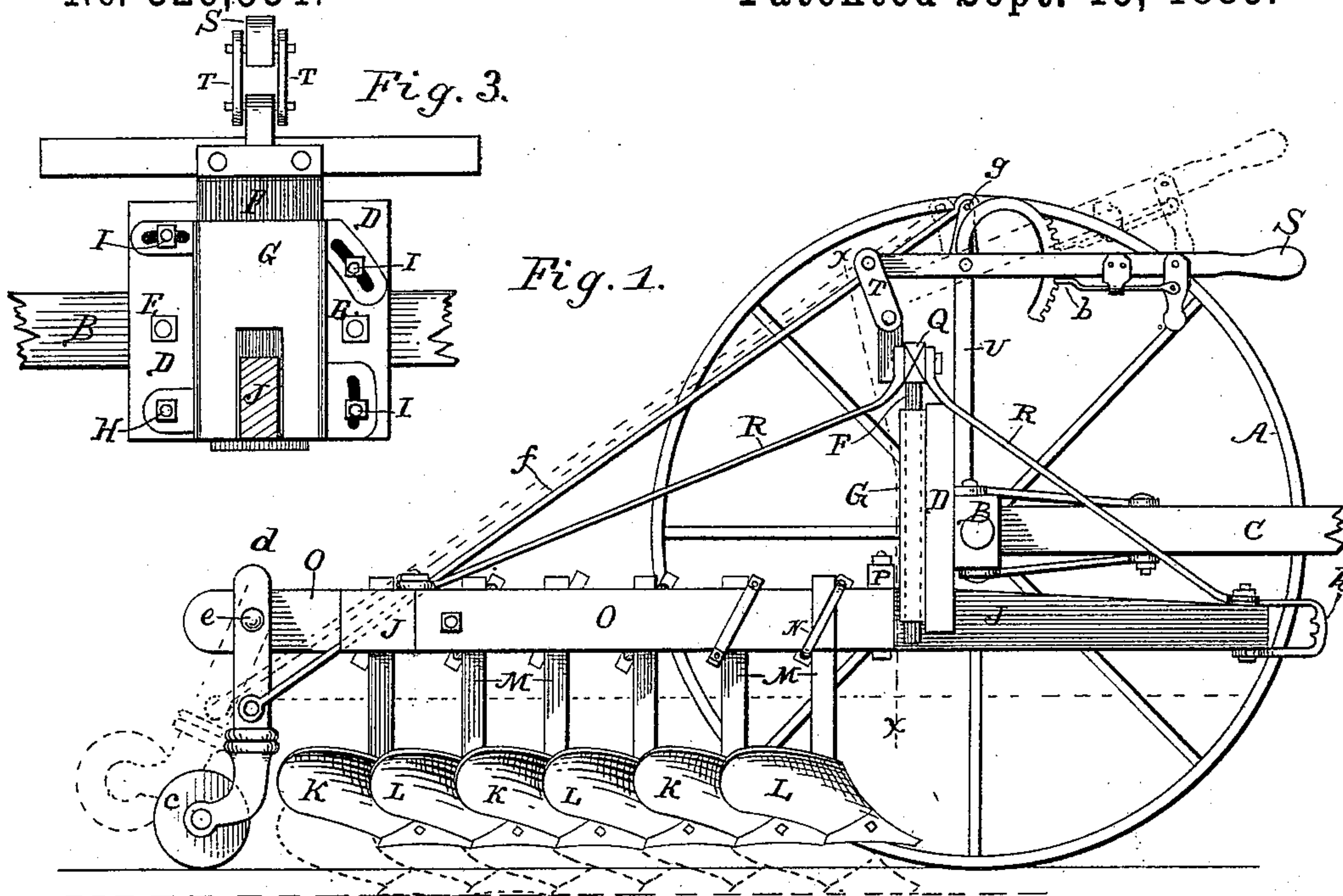
(No Model.)

H. W. WYNNE.

GANG PLOW.

No. 326,534.

Patented Sept. 15, 1885.



WITNESSES:

Pho^d. Houghton.

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INVENTOR:

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UNITED STATES PATENT OFFICE.

HENRY W. WYNNE, OF DOMINION CITY, MANITOBA, CANADA.

GANG-PLOW.

SPECIFICATION forming part of Letters Patent No. 326,534, dated September 15, 1885

Application filed January 9, 1885. (No model.)

To all whom it may concern:

Be it known that I, HENRY W. WYNNE, a subject of the Queen of Great Britain, residing at Dominion City, in the Province of Manitoba, Canada, have invented certain new and useful Improvements in Gang-Plows, of which the following is a description.

This invention relates to gang-plows which are mounted on wheels; and it has for its object to provide means whereby a gang consisting of any number of plows may be made complete in itself suitable to be attached to and carried by any pair of wagon or cart wheels, means whereby the plows may be attached to their supporting-frame, means for raising and lowering the gang, and means for canting the same from side to side.

To this end my invention consists in the construction and combination of parts forming a gang-plow hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of a gang-plow according to my invention attached to a pair of wheels, the wheel being absent from the near side in the drawings. Fig. 2 is a plan view of the same, showing both wheels. Fig. 3 is a transverse vertical section at *xx*, Fig. 1, partly in rear elevation; and Fig. 4 is a front view of a pair of plows.

A represents a pair of wheels journaled on an axle, B, provided with a tongue, C, which latter may be attached to a pair of wagon hind wheels, if necessary.

D is a thick strong plank provided with bolts E, by which to be attached to the axle B.

F is a post fitted to slide vertically in a way, G, which is secured to the plank D by means of bolts H I.

J is the central plow-beam of the gang, securely bolted to the post F.

K L are two plows, both secured to one beam. In order that these plows may both be secured to one beam of common width, and yet be far enough apart to plow two distinct and separate furrows much wider than the plow-beam, I make an offset in one plow-post, M, to the left, and in the other to the right, as shown in Figs. 2 and 4, and I attach the plows to the sides of the beams by means of staple-bolts N, so that each plow may be adjusted vertically relatively to the others.

O O represent other plow-beams rigidly secured to the central beam, J, by means of cross-beams P, rigidly bolted together. To each of these side beams two plows may be attached in the same manner as to the central beam.

Q is an upper cross beam rigidly secured to the post F.

R R are brace-rods secured at one end to the central beam, J, and at the other end to the cross-beam F, thus stiffening the frame of the gang, so that it will support itself bodily in any position, whether mounted on wheels or not.

S is a hand-lever connected with the post F by a link, T, and pivoted to a bracket, U, which is secured to the fixed plank D. By this means the gang may be raised or lowered by the operator at will.

a represents an arc of teeth cut into the bracket U, to be engaged by a detent, *b*, attached to the hand-lever S, whereby the lever may be fixed at any point of its arc of motion to hold the gang of plows elevated, as desired.

In case the supporting-wheels A are light and the gang heavy, I provide a caster-wheel, *c*, with a post, *d*, pivoted to the rear end of one of the side beams, O, at *e*, to swing fore and aft. *f* is a rod connecting the caster-post *d* with an arm, *g*, of the lever S. The action of the lever in raising and lowering the whole gang relatively to the plank D also swings the caster-post to and fro correspondingly, so that the rear end of the gang is thereby supported at all times, thus relieving the wheels A of a portion of the weight of the gang, and facilitating the raising and lowering of the gang.

The bolts H and I, which secure the way G to the plank D, serve another purpose also. The bolt H is a pivot on which the way G may be canted, so as to cant the gang either to the right or left, and the bolts I serve as binding-screws in circular slots of the way G to secure it at the desired cant. The clevis *h* is attached directly to the forward end of the central plow-beam, so that the tongue of the wheels is not strained upon to draw the plows.

I prefer that the staple-bolt N should straddle both the plow-beam and the plow-post, as shown.

The caster, pivoted to the free end of a plow-beam to swing fore and aft to adjust the height

of the beam from the ground, may be attached to the forward part of the plow when that is the free end or the end of the beam requiring support.

5 What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of a plank, D, provided with bolt-holes E, the guideway G, securable thereto, the post F, fitted to slide vertically in
10 the guideway, the beam J, secured to the post F, and plows secured to the plow-beam, substantially as shown and described.

2. The combination of the plank D, the guideway G, the post F, the beam J and plows

secured thereto, the cross-beam Q, and the 15 braces R, substantially as shown and described.

3. The combination of the plank D, the guideway G, the post F, the gang-plow secured thereto, the caster-wheel c, the post d, pivoted to the rear end of the gang-plow frame, the 20 hand-lever S, pivoted to a fixture of the plank D, the link T, and the connecting-rod f, substantially as shown and described.

HENRY W. WYNNE.

Witnesses:

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SOLON C. KEMON.