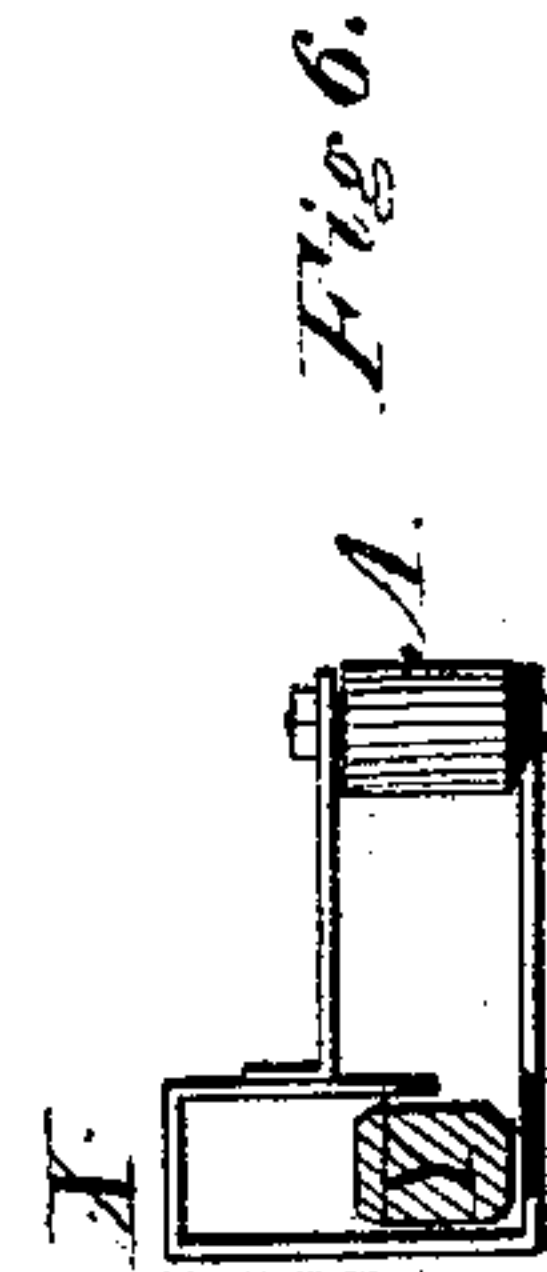
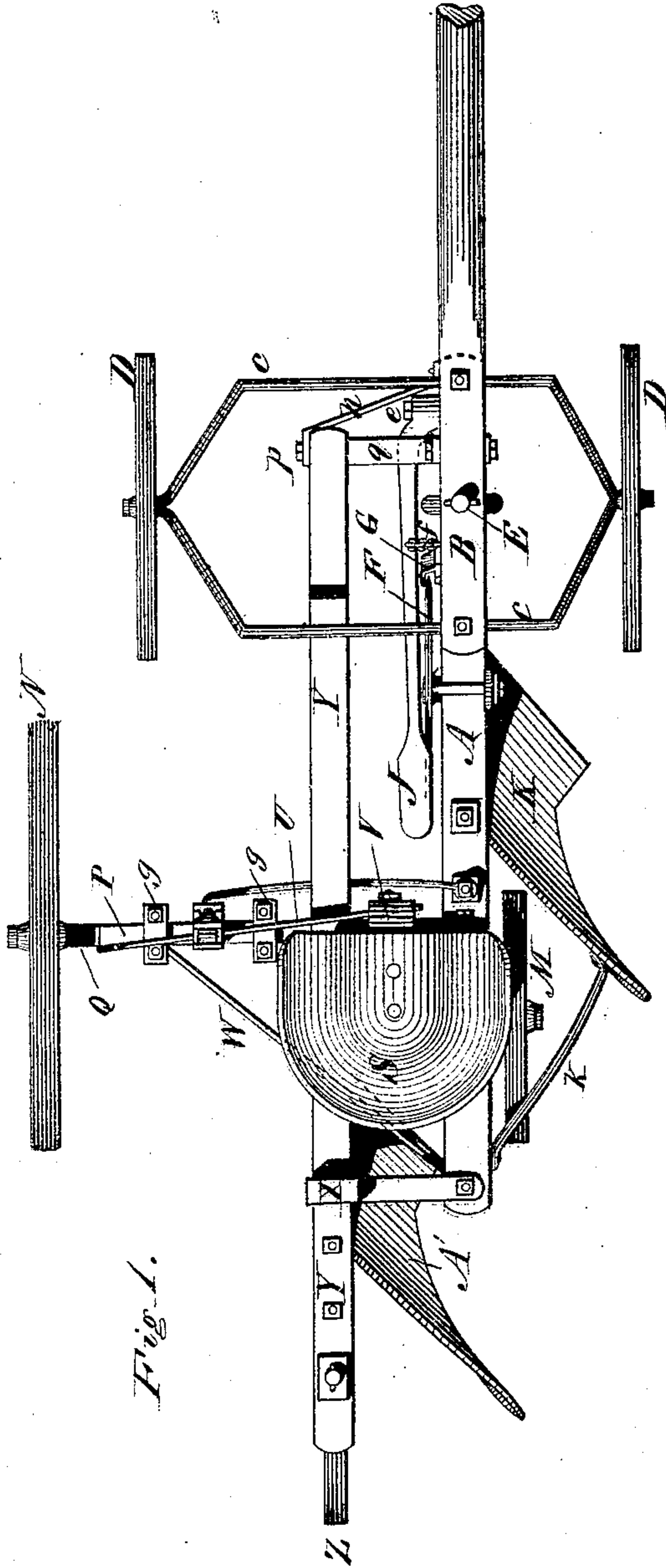


G. W. HUNT.  
Carriage Plows.

No. 153,256.

Patented July 21, 1874.



WITNESSES

*Harry King.*  
*Wm R. Stansbury*

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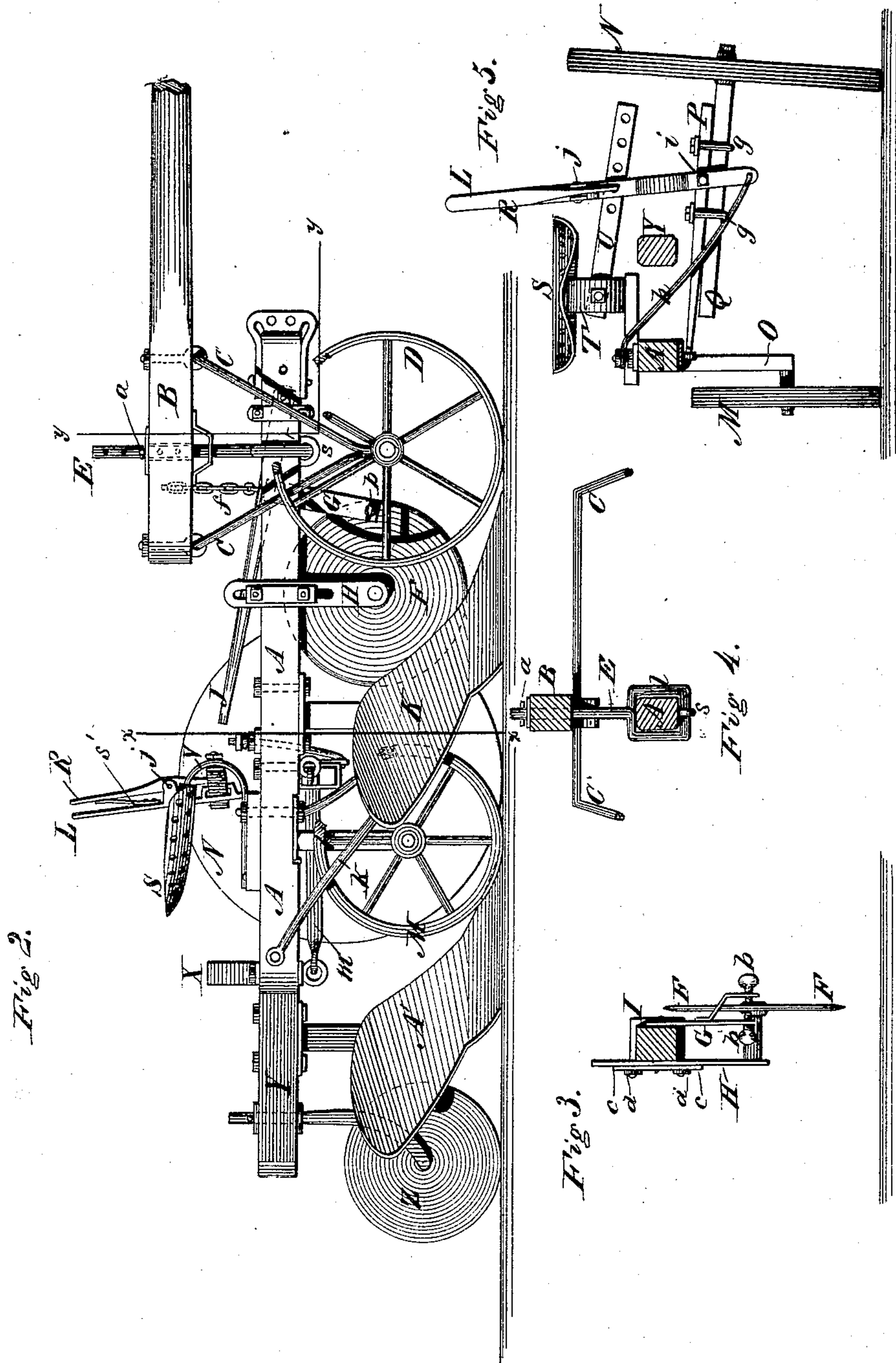
INVENTOR

*Geo. W. Hunt*  
*Stansbury & Hunt* Attorneys.

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*Harry King.*  
*Wm R. Stansbury.*

By

INVENTOR  
*Geo. W. Hunt.*  
*Stansbury & Munn,* Attorneys.



# UNITED STATES PATENT OFFICE.

GEORGE W. HUNT, OF MUSCATINE COUNTY, IOWA.

## IMPROVEMENT IN CARRIAGE-PLOWS.

Specification forming part of Letters Patent No. **153,256**, dated July 21, 1874; application filed February 17, 1874.

*To all whom it may concern:*

Be it known that I, GEO. W. HUNT, of Muscatine county, in the State of Iowa, have invented certain Improvements in Carriage-Plows; and I do hereby declare the following to be a full and correct description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a plan or top view of my improved plow. Fig. 2 is a side elevation of the same. Figs. 3, 4, 5, and 6 are details.

The same part is marked by the same letter of reference wherever it occurs.

My invention consists in improvements in the details of construction of the carriage-plow patented by me September 15, 1863, as hereinafter fully described, and shown in the accompanying drawings.

In the drawings, A marks the beam of the main plow, the forward end of which is suspended to the tongue B by means of a gage-bolt, E, having a loop, l, on its lower end for the reception of the beam, which is fastened to it by means of a staple, s. The bolt E, which passes up through a hole in tongue B, is provided with a number of holes to receive a pin, a, to regulate the height at which the beam is to be suspended. The tongue B is fastened, by ring-bolts and nuts, to a double yoke or gallows, C C, to which are attached the wheels D D, forming with said wheels a carriage for the forward end of the plow. To the side of the forward end of beam A is pivoted, at e, a foot-lever, J, which has a chain attached to the tongue B, so that the driver, by depressing with his foot the lever J, can raise the end of beam A to any required degree. F is the rotating circular colter of the plow attached to beam A by a slotted plate or bar, H, (see Fig. 3,) to which the journal of the colter is fixed. Plate H is held in place by staple I, plate c, and nut d. A forked gage, G, is attached to beam A in front of the colter, and in such position that the edge of the colter runs in the fork of the gage. Two wooden pins, b b, pass through threaded holes in the fork and bear against the sides of the colter, near its edge, so as to support it and keep it steady. K is the mold-board of the main plow, which is attached to the beam in the ordinary manner, and braced by rod k. Just behind

the mold-board K is a small wheel, M, turning on an axle, O, attached to a bar depending from the beam A. A large wheel, N, on the land side of the plow turns on an axle, Q, which slides upon the under side of a bar, P, the under edge of which is linked to an eyebolt attached just in rear of the plow K to the beam A. The axle Q is fixed to the bar P at any desired position by means of two screw-clamps, g g. When the clamp-screws are loose the axle of wheel N can be drawn out to any required distance and fixed at any desired point by tightening the screws of the clamps. The wheel N should be placed farthest out when running over rough ground, so as to reduce the lateral vibration of the plow. The rod P has a brace, W, connecting it with the rear end of the beam A. L is an upright hand-lever, having its fulcrum at i, and a fork at its lower end, which passes over the double axle. The pin i passes through the bar P. (See Fig. 5.) The lower end of the lever is pivoted to one end of brace-rod h, whose opposite end is bolted to the top of beam A. A loop in lever L receives a gage-bar, U, provided with a number of holes, which receive a pin on the lower end of spring-catch lever R, pivoted to lever L at j, and operated by the spring s'. The inner end of the bar U is pivoted to the spring V, which supports the driver's seat S.

The object of this construction is to level or "wing" the plow by means of lever L, which is within reach of the driver on his left.

A' is the mold-board of the extra plow, attached to the beam Y in the ordinary way. This beam has a caster-wheel, Z, on its rear end. The beam Y passes through a square collar, X, attached to the rear end of beam A, and made large enough to afford vertical play to the beam Y. The forward end of this beam is held to bar g by means of strap n and bolt p. Thus the two beams A and Y are placed in positions parallel to each other, and both plows are attached firmly together and supported upon the same fore wheels, so that both can be leveled or winged at the same time by the operation of lever L.

The operation is obvious from the construction.

The advantage of a carriage-plow over one



of the ordinary form is that the weight of the plow is supported by the carriage, and is taken off of the bottom of the furrow, thus greatly relieving friction, making the work easier, and preventing the packing of the soil at the bottom of the furrow, leaving the land loose and porous for the free passage of moisture.

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

1. In combination with the gallows C C, tongue B, and beam A, constructed and arranged as herein described, the adjustable connecting gage-bolt E, with lever J and chain f, as and for the purpose set forth.

2. In combination with the plow-beam A, mounted as described, the hinged bar P and adjustable axle Q, provided with wheel N, constructed and arranged as described, and for the purpose set forth.

3. In combination with the plow-beam A, axle-standard O, and wheel M, the upright hand-lever L, gage-bar U, axle or bar P, and brace h, constructed and arranged as herein described, and for the purpose set forth.

4. A carriage-plow, consisting of the fore wheels D D, gallows C C, tongue B, connecting adjustable gage-bolt E, plow-beams A and Y, wheel M, and adjustable wheel N, all constructed and arranged substantially as herein described.

The above specification of my said invention signed and witnessed at Moscow this 14th day of January, A. D. 1874.

GEO. W. HUNT.

Witnesses:

E. E. EDWARDS,  
A. HILTON.