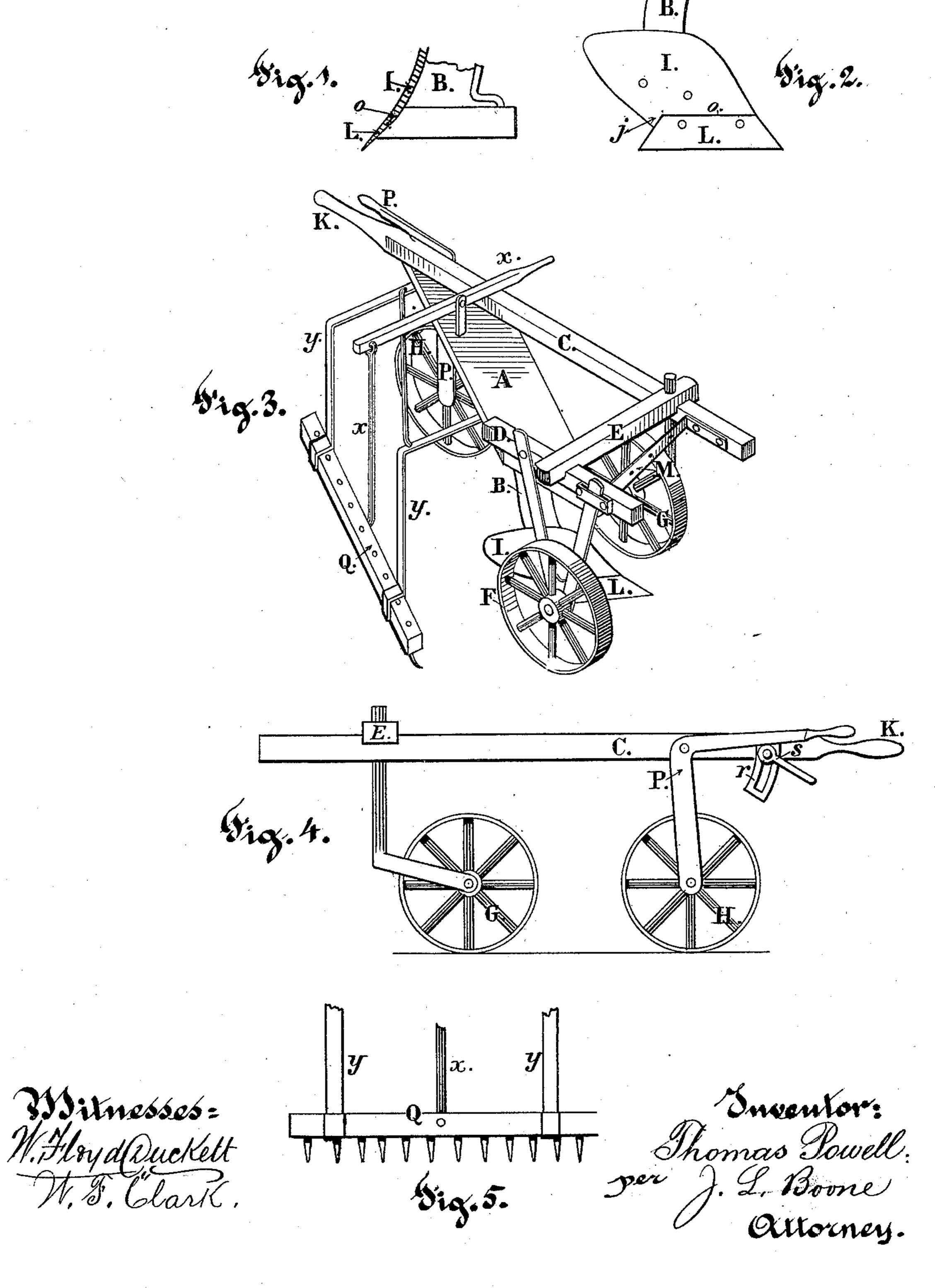
T. POWELL.
Gang Plow.

No. 232,845.

Patented Oct. 5, 1880.



United States Patent Office.

THOMAS POWELL, OF STOCKTON, CALIFORNIA.

GANG-PLOW.

SPECIFICATION forming part of Letters Patent No. 232,845, dated October 5, 1880. Application filed June 11, 1879.

To all whom it may concern:

Be it known that I, THOMAS POWELL, of the city of Stockton, county of San Joaquin, and State of California, have invented an Im-5 proved Gang-Plow; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the drawings accompanying this specification and forming a part of the same.

Referring to the accompanying drawings, Figures 1 and 2 are detached views of the moldboard and reversible share-piece of my improved plow. Fig. 3 is a perspective of the plow. Fig. 4 is a side elevation of the plow, 15 and Fig. 5 is a detached view of the movable

harrow-bar.

Let A represent the diagonal beam to which the upper ends of the plow-standards B are secured. In this class of gang-plows a num-20 ber of plows are secured to the beam at a short distance apart, so as to form a diagonal series; but in the present instance I have only represented a single plow, it being sufficient for the purpose of this specification.

CD are the two parallel timbers of the plowframe, which are secured upon the opposite ends of the diagonal beam A. The timber C, which is attached to the rear end of the diagonal beam, extends forward as far as the beam 30 A, while its rear end projects backward, so as form a handle, K, for the plowman to hold while running the plow. The short beam D is se-

beam, and the two timbers are connected by 35 the cross-bar E.

The bearing-wheels FG are arranged to support the forward end of the plow-frame in the usual way, while a single wheel, H, supports the rear of the frame. M is the draft-bar.

cured upon the forward end of the diagonal

In the plow, I is the mold-board, the lower edge of which is straight, except a downwardprojecting angular corner, j, at its heel or rear corner.

L is the reversible share. It is made with 45 its upper and lower edges straight and parallel. Its lower edge is longer than its upper edge, and its ends are made angular in opposite directions. The share L is adapted to be

reversed end for end to permit either end to serve as the plowing-point, said ends being 50 formed alike.

The rear bearing-wheel, H, is mounted at the end of one arm of a crank-lever, P. The angle of this crank-lever is bolted to the rear end of the timber C, while one arm projects backward 55 and forms a handle for raising or lowering the rear end of the plow-frame by adjusting the

angle of the wheel-arm.

A pendent slotted plate or link, r, is secured to the lever-arm so as to extend down outside 60 the beam C, and a fixed screw projects from the timber through the slot. A nut, s, is turned upon this screw so as to bind the link or plate against the timber in whatever position it is moved to. By loosening the nut the plate is 65 released, so that the lever can be moved up or down, the pin moving in the slot, thus adjusting the lever and raising or lowering the wheel. This handle or lever is within easy reach of the plowman when he is holding the main handle 70 K of the plow, so that he can raise or lower the plows when they are plowing to accommodate uneven surfaces, or even to raise them entirely out of the ground.

In this class of plows a harrow-bar, Q, which 75 is provided with harrow-teeth, is sometimes mounted parallel with the diagonal beam A, so as to harrow the ground in rear of the plows. This harrow-bar has usually been made permanent; but I attach the arms y y which support 80 it to the diagonal beam by means of hinges or other flexible connection, so that it will be free to move up or down in order to permit it to accommodate itself to the plowed surface. I also apply a lever, x, by means of which it can be 85 raised entirely free from the ground and fastened, so as to remain out of action when it is not desired to use the harrow, or to raise it above obstructions while the plow is being moved

from place to place.

I am aware that it is old, broadly, to combine with a gang-plow a harrow or pulverizer connected obliquely to the plow-frame and so arranged therewith as to travel over and cause its teeth to pulverize the plowed ground, and 95 adapted to be vertically adjusted.

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

In a gang-plow and harrow combined, the combination, with the oblique beam A, connected to the side parallel bars or beams, CD, and having the angular lever-arm PH, of the harrow Q, having their right-angled bars yy hinged or pivoted to the beam A, and having

the operating-lever x x, as and for the purpose set forth.

In witness whereof I hereunto attach my hand and seal.

THOMAS POWELL. [L. s.]

Witnesses:

L. M. COHN, CHAS. E. KELLY.