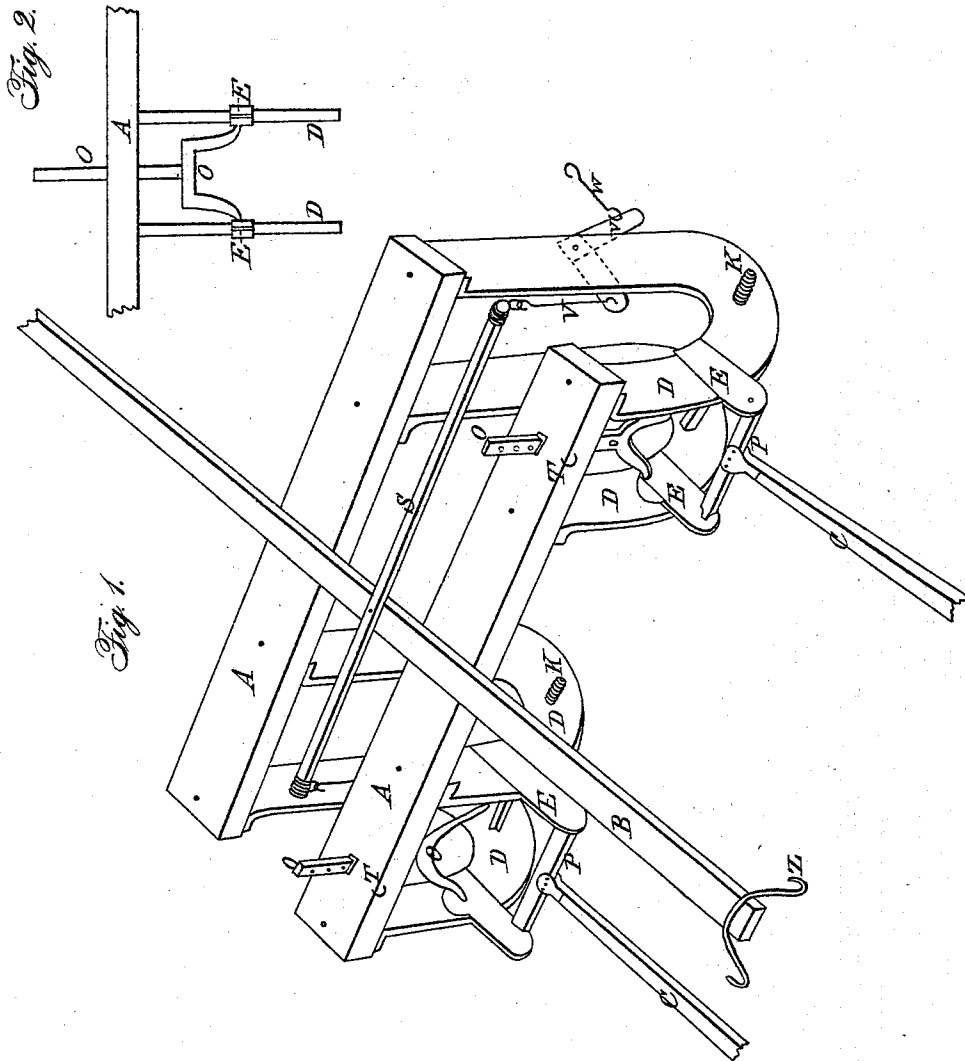


P. W. SMITH.
Wheel Cultivator.

No. 68,662.

Patented Sept. 10, 1867.



Witnesses:

W B Richards
J. A. Young

inventor:

Perry W Smith

UNITED STATES PATENT OFFICE.

PERRY W. SMITH, OF ABINGDON, ILLINOIS.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 68,662, dated September 10, 1867.

To all whom it may concern:

Be it known that I, PERRY W. SMITH, of Abingdon, in the county of Knox and State of Illinois, have invented a new and useful Machine for Cultivating Plants in Rows; and I do hereby declare the following to be a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of my machine without the ordinary wheels and plows, and Fig. 2 is a section of the same.

The main features in my machine are the two transverse frame-pieces A, onto which the tongue B is bolted. Beneath these cross-pieces I bolt on the metallic devices D D D D, provided with the sliding knuckles E E E E, and the adjusting-bars O O, by which I regulate the vertical adjustment of the beams. These metallic bars D D D D also furnish a simple and cheap means of attaching the draft. On the end of the pole or tongue I place two hooks, Z, for the purpose of supporting the plows up from the ground when turning, &c.,

by simply lifting the plows and hooking the braces on the hook Z. I also put three holes in the plates at the end of the plow-beams, where they are attached to the bar P. The ordinary working-hole is the center one; but in case I want stiff beams, or, in other words, no lateral movement, for the purpose of working "diamonds," in laying corn by, I place a pin in one of the side holes, and make thereby a stiff joint.

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

1. The combination of frame-pieces A A, bars D D D D, knuckles E, and adjusting-bars O O, substantially as described, and for the purpose set forth.

2. The vertical-adjustment device, bars O O, and knuckles E E E E, substantially as described, and for the purpose set forth.

3. The metallic uprights D D D D, arranged as described, and for the purpose set forth.

PERRY W. SMITH.

Witnesses:

W. B. RICHARDS,
J. A. YOUNG.