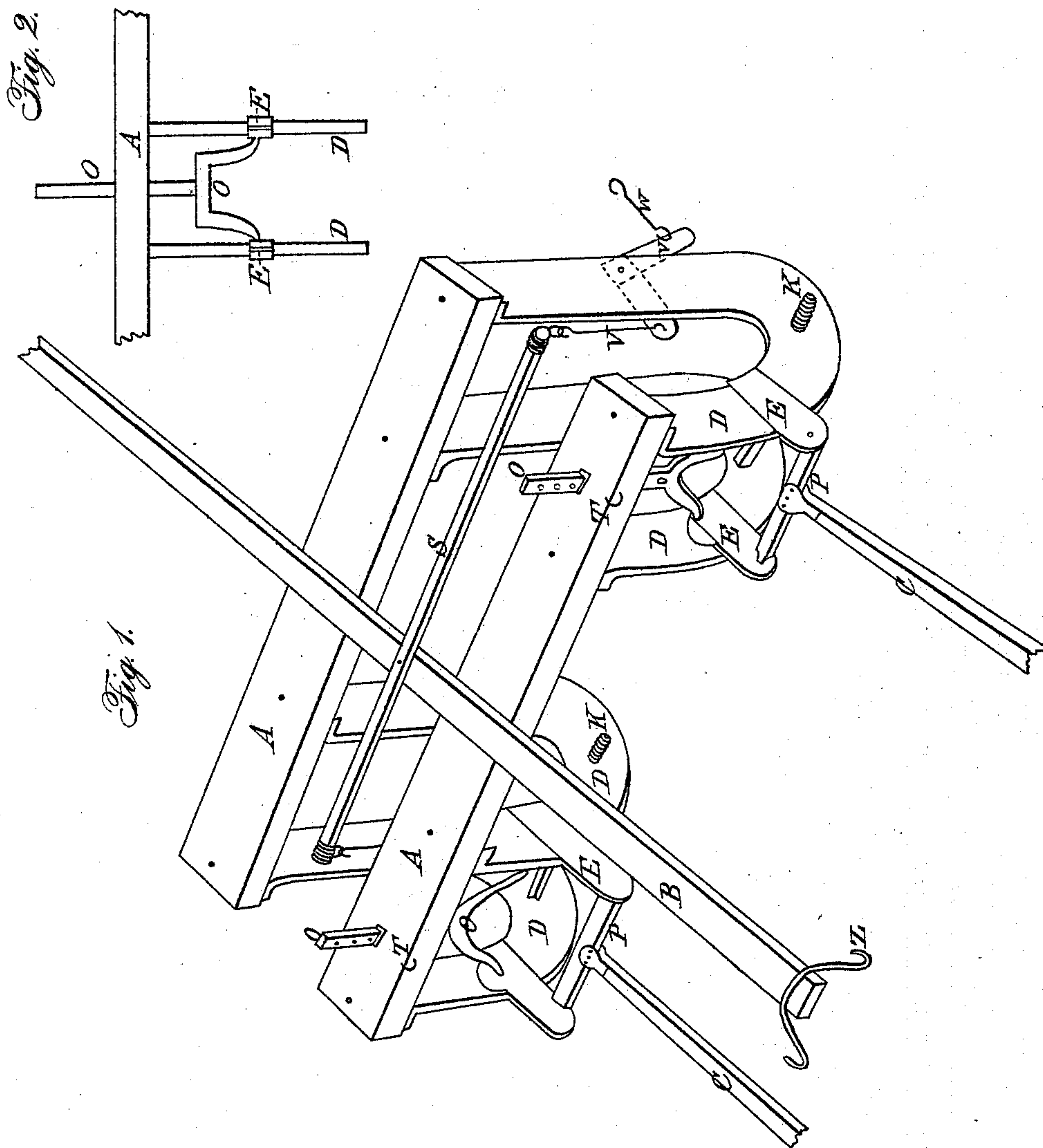


## Wheel Cultivator.

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.