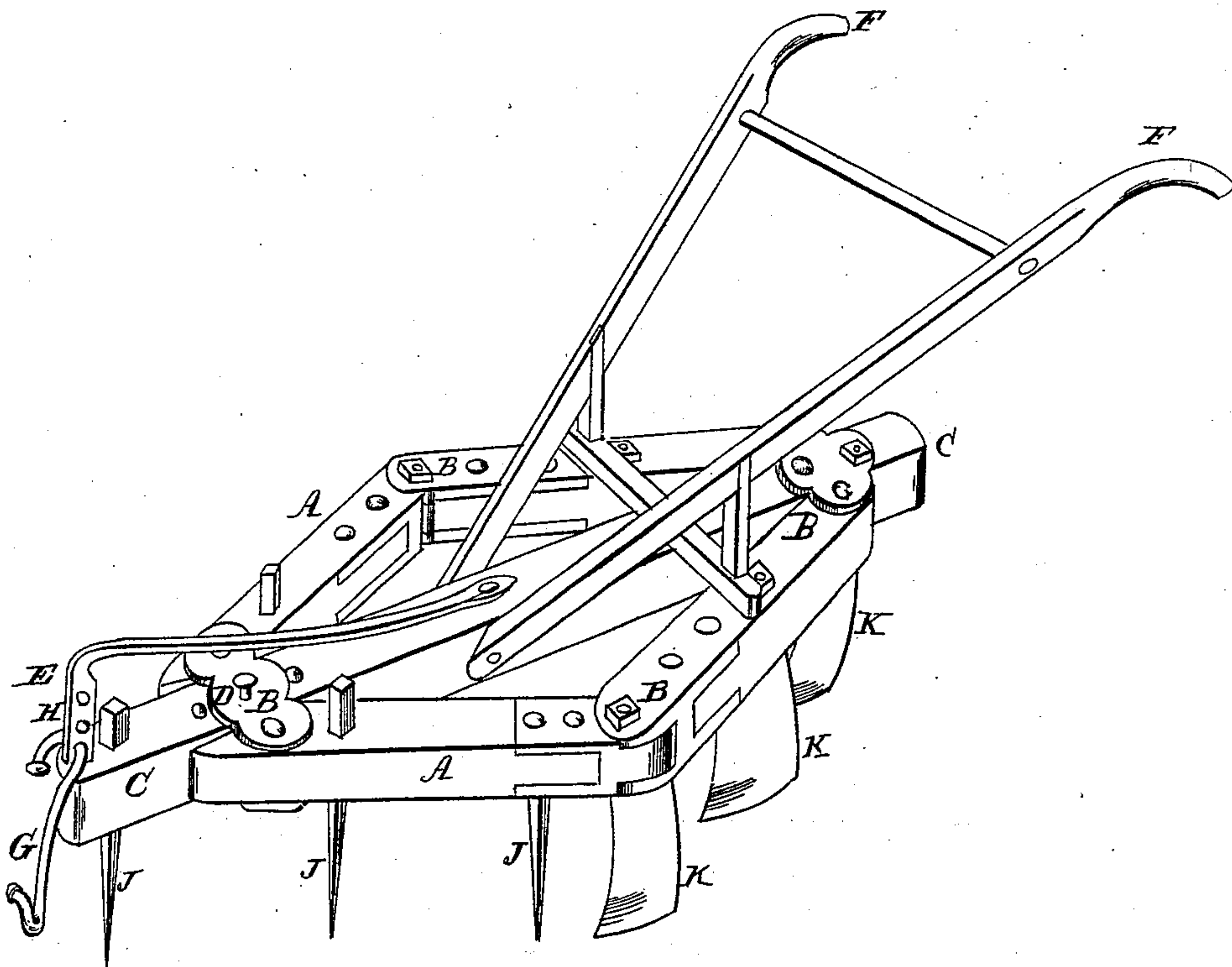


J. W. ERNST.

Cultivator.

No. 71,152.

Patented Nov. 19, 1867.



Witnesses

G. B. Fowler.

A. C. Klintz

John W. Ernst Inventor.  
By his Atty J. F. Reigart

# United States Patent Office.

JOHN W. ERNST, OF HEIDELBERG, PENNSYLVANIA.

*Letters Patent No. 71,152, dated November 19, 1867.*

## IMPROVEMENT IN ADJUSTABLE CULTIVATORS.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOHN W. ERNST, of Heidelberg, Berks county, State of Pennsylvania, have invented an improved Adjustable Cultivator; and I do hereby declare the following to be an exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction of the cultivator diamond-shaped, hinged at the back end and sides, and sliding on a centre-piece in front, so as to widen or narrow the machine, and be adjusted to the width required to furrow the soil, with five harrow-teeth on the front angle and five shovels on the rear angle.

A represents the diamond-shaped frame with four hinges B B B B, the front hinge B sliding upon the centre-piece or beam C and adjusted by a bolt, D, that passes through the hinge plates and the beam C, and as the front part or angle of the frame is drawn back the side hinges yield, and the frame is widened at the centre. The plough handles F are located in the centre of the machine so as to raise or lower the point when in operation to conform to the irregular surface of the ground. The clevis E is also easily adjusted on the front of the beam by the hook G being inserted in the apertures H higher or lower. The five harrow-teeth J are in front and the five shovels K are in the rear.

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

The diamond-shaped cultivator, jointed and adjusted as herein described, when combined with the teeth, shovels, and regulating clevis, for the purposes set forth.

JOHN W. ERNST.

Witnesses:

JOHN WAGNER,

SAMUEL SHEARER,