W. O. CLARK.

Cultivator.

No. 162,900. Patented May 4, 1875.

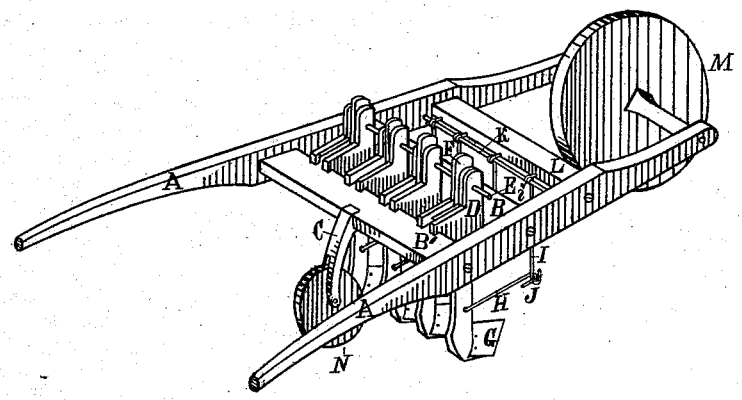

Fig. 1.

Witnesses:
H. E. Metcalf
Geo G. Shaw.

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UNITED STATES PATENT OFFICE.

WILLIAM O. CLARK, OF NORTHAMPTON, MASSACHUSETTS.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. **162,900**, dated May 4, 1875; application filed April 14, 1875.

To all whom it may concern:

Be it known that I, WILLIAM O. CLARK, of Northampton, in the county of Hampshire, State of Massachusetts, have invented a certain new and useful Improvement in Cultivators, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which my invention appertains to make and use the same, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is an isometrical perspective view.

My invention relates more especially to that class of cultivators which are designed for hand use; and consists in a novel construction and arrangement of the parts, as hereinafter more fully set forth and claimed, by which a simple, cheap, and effective article of this character is produced.

The nature and operation of my improvement will be readily obvious to all conversant with such matters from the following explanation, the extreme simplicity of the invention rendering an elaborate description unnecessary.

In the drawing, A A represent the side pins or handles, which are connected by the cross-beams or bars B B′ L. Journaled in one end of the side pieces there is a trundle-wheel, M, and attached to the bar B′ there is a downwardly-projecting bracket or arm, C, carrying the gage-wheel N. Secured to the bars B B′ there are four double standards, D, and pivoted at their upper ends in these standards by the rod E there is a series of independent vertical beams, F, to the lower ends of which are attached the teeth or shares G. Disposed in the frame-work of the cultivator, near the bar L, there is a horizontal rod, K, around which are coiled four springs, *i*. These springs have their horizontal ends secured firmly in the bar L, their vertical or free ends projecting below the side pieces A, as shown at I. Each of the beams F is provided with a horizontal rod, H, connecting it with one of the springs, which are so arranged and operate so as to keep the beams F against the bar B when the torsional action of the springs is not overcome by more than ordinary resistance applied to the teeth G.

In the use of my improved cultivator it is pushed before the workman or trundled on the wheel M, after the manner of a wheelbarrow, the gage-wheel N determining the depth which the shares penetrate the ground.

It will be obvious that any desired number of the beams F may be employed; also, that when the teeth come in contact with a fixed obstruction, the springs *i* will yield and permit them to pass it uninjured.

Having thus explained my invention, what I claim is—

The improved cultivator described, consisting of the frame-work A B B′ L, provided with the wheels M N, springs *i*, rods H, pendulous pivoted beams F, and shares G, combined and arranged to operate substantially as and for the purpose specified.

WM. O. CLARK. [L. S.]

Witnesses:

ENOS PARSONS,

T. R. PELTON.