

(No Model.)

U. A. CLEVELAND.
CULTIVATOR ATTACHMENT.

No. 536,130.

Patented Mar. 19, 1895.

Fig. 1.

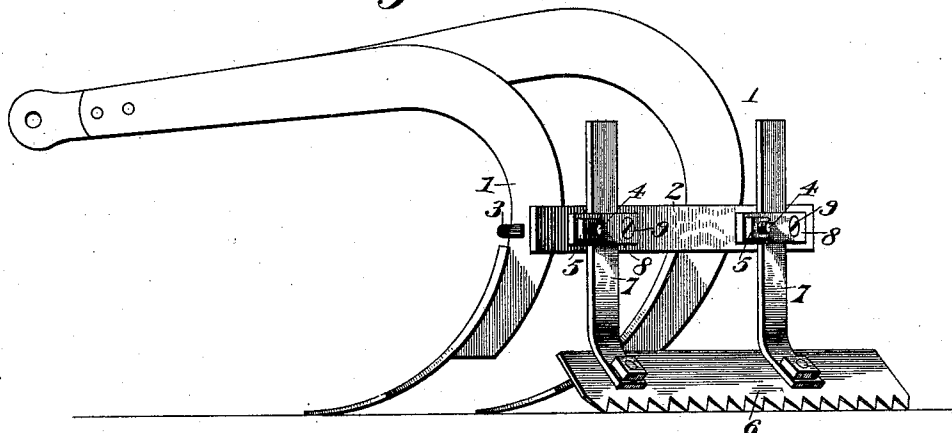


Fig. 2.

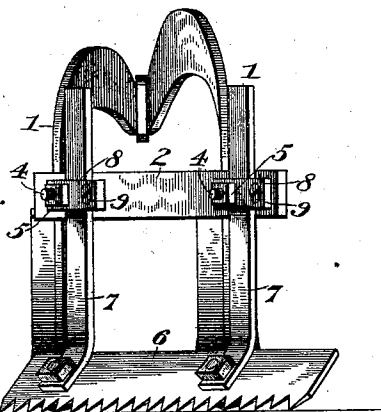
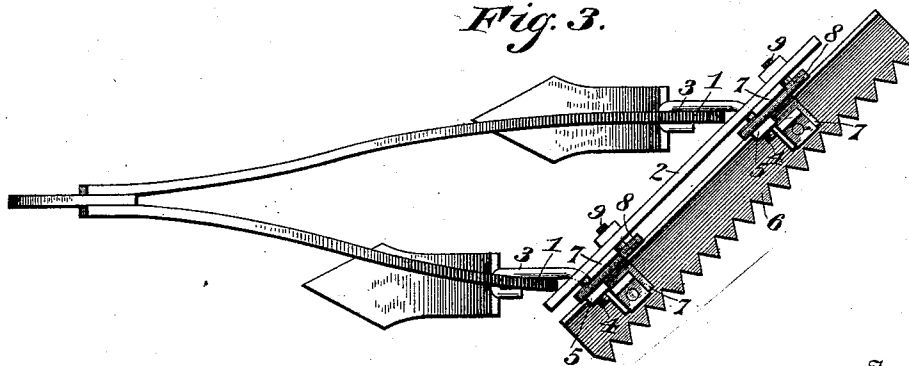


Fig. 3.



Witnesses:

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URIAH A. CLEVELAND, OF ALBERT LEA, MINNESOTA.

CULTIVATOR ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 536,130, dated March 19, 1895.

Application filed February 26, 1894. Serial No. 501,560. (No model.)

To all whom it may concern:

Be it known that I, URIAH A. CLEVELAND, of Albert Lea, county of Freeborn, State of Minnesota, have invented certain new and useful Improvements in Cultivator Attachments, of which the following is a specification, reference being had to the accompanying drawings.

The object of my invention is to produce an improved attachment for cultivators for pulverizing and leveling the ground turned up by the shovels.

In the accompanying drawings: Figure 1 is a side elevation of a portion of a cultivator with my attachment in place. Fig. 2 is an end view thereof. Fig. 3 is a top plan view thereof.

Referring to the figures on the drawings: 1 indicates the curved shanks of a pair of cultivator shovels. 2 indicates a yoke adjustably secured thereto by suitable means, as for example, hooks 3, having screw bolt ends 4, and nuts 5.

6 indicates the cultivator blade or leveler which consists preferably of a serrated steel plate preferably detachably secured to the curved spring supports 7. These supports are adjustably secured to the said yoke, as by clamping plates 8 secured at one end by the bolt ends of the hooks 3 and at the other by screw bolts 9.

The nuts 5 being screwed upon the ends serve to simultaneously clamp the clamping plates to the yoke to sustain the spring supports, and to clamp the yoke and the connected parts to the shanks. The teeth of the blade are pointed rearwardly as illustrated.

By means of the peculiar mechanism described, I can accomplish a great variety of adjustments of the leveler to suit varying conditions.

It will be observed that by reason of the resiliency of the spring supports the leveler is yieldingly supported, and is adjustable vertically without changing its degree of inclination by means of the clamping plates which may be loosened for the purpose of such vertical adjustment and may then be clamped to fix the same. It will also be observed that by reason of the curved contour of the shanks the yoke may be vertically adjusted thereon

to vertically adjust the leveler, and at the same time to change its rearward inclination, and, by reason of the difference in the radius of the curved shanks, such vertical adjustment of the yoke likewise changes the endwise inclination of the leveler.

I do not desire to limit myself to the details of construction herein shown and described, but reserve the right to modify or change the same within the scope of my invention.

What I claim is—

1. The combination with a pair of curved cultivator shanks of different radius, of mechanism adjustably securing a yielding leveler thereto, substantially as specified.

2. The combination with the shanks of a cultivator, and the leveler, of intermediate mechanism for accomplishing the vertical adjustment of the leveler and for adjusting the endwise inclination of the leveler with respect to the ground and its rearward inclination simultaneously, substantially as specified.

3. The combination with a pair of cultivator shanks curved in different degrees, of a yoke adjustable thereon, and a leveler adjustably secured to the yoke whereby the leveler may be vertically adjusted without changing the degree of its inclination, or whereby it may be vertically adjusted and the degree of its rearward and endwise inclination be changed simultaneously with said adjustment, substantially as specified.

4. The combination with curved cultivator shanks of different radius, of the yoke and leveler, separate and independent mechanism at each end of the leveler, like mechanism at each end of the yoke adapted to co-operate with the adjacent mechanism upon the leveler, whereby said leveler may be vertically adjusted, or the degree of its endwise inclination adjusted at will, substantially as specified.

In testimony of all which I have hereunto subscribed my name.

URIAH A. CLEVELAND.

Witnesses:

G. G. MELLELLAND,
HARRY JONES.