

No. 648,443.

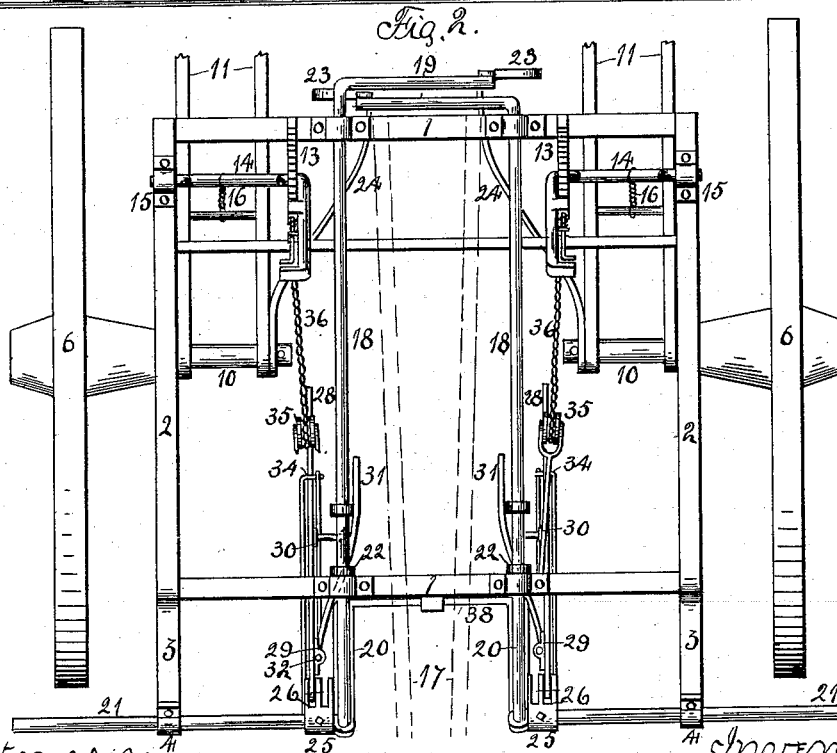
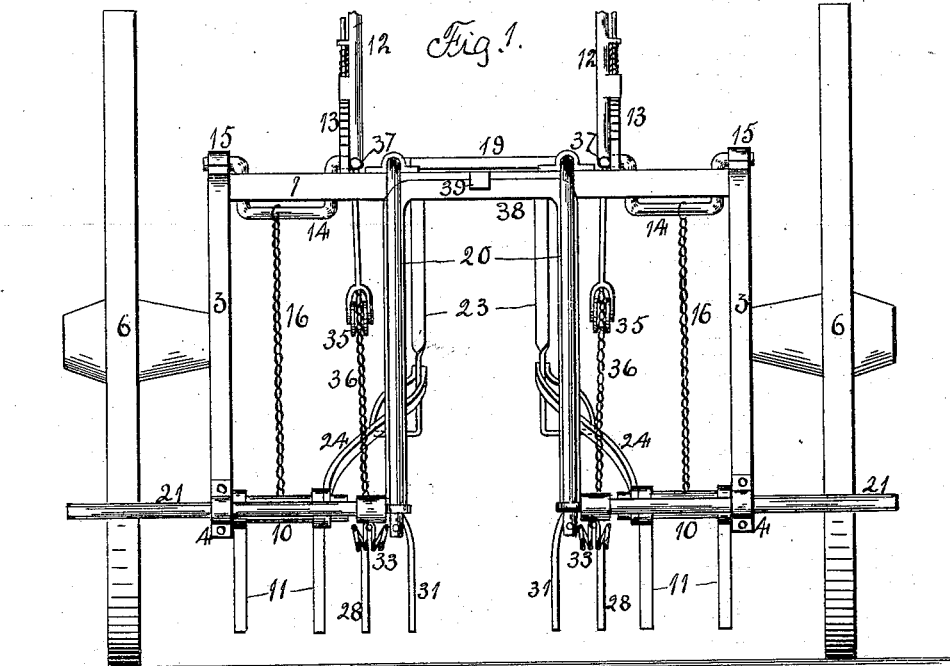
Patented May 1, 1900.

W. G. SCOTT.
CULTIVATOR.

(Application filed Dec. 18, 1899.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses:
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J. E. Behel

Inventor:
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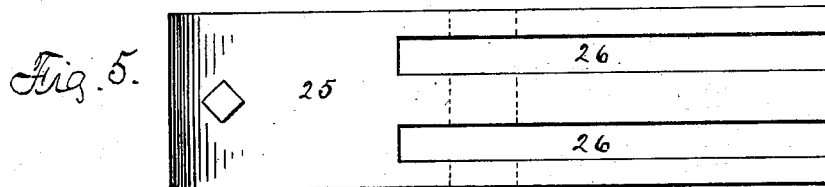
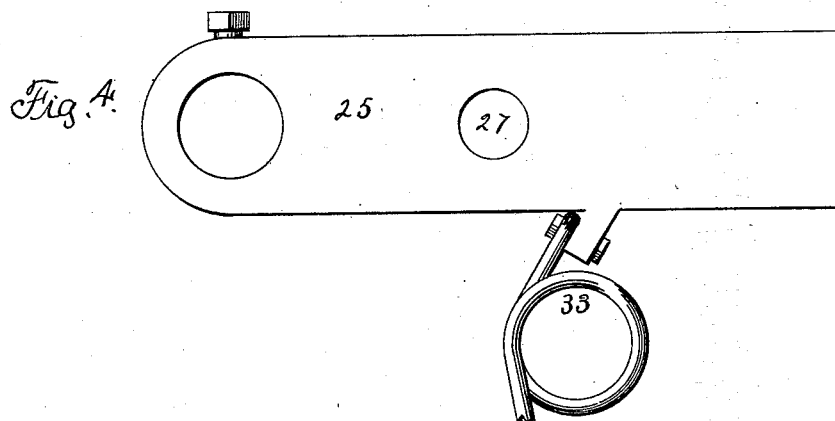
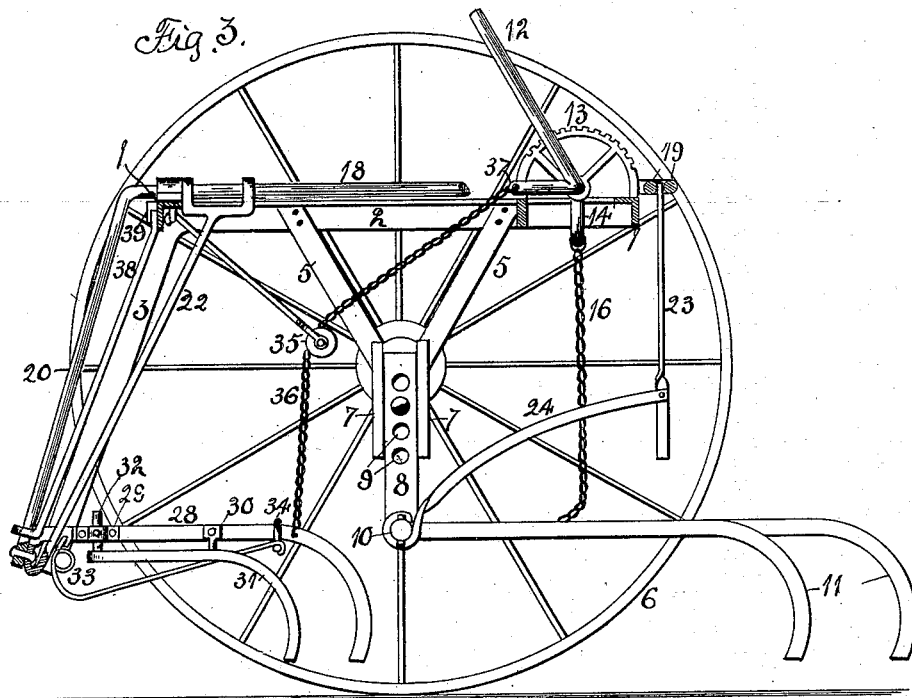
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UNITED STATES PATENT OFFICE.

WILLIAM G. SCOTT, OF ROCK DELL, MINNESOTA.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 648,443, dated May 1, 1900.

Application filed December 18, 1899. Serial No. 740,834. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM G. SCOTT, a citizen of the United States, residing at Rock Dell, in the county of Olmsted and State of Minnesota, have invented certain new and useful Improvements in Cultivators, of which the following is a specification.

The object of this invention is to construct a cultivator in which two sets of shovels are employed, the rear set capable of a rising-and-lowering movement only and the front set capable of a rising-and-lowering movement and also a movement transverse to the line of draft.

15 In the accompanying drawings, Figure 1 is a front elevation. Fig. 2 is a plan view. Fig. 3 is a lengthwise vertical central section. Fig. 4 is a side elevation of the head. Fig. 5 is a plan view of the head.

20 The main frame consists of the transverse bars 1, connected at their ends by bars 2, having front extensions 3 and formed with boxes 4. Brackets 5 depend from the end bars and support carrying-wheels 6. These brackets
25 have depending extensions 7. Arms 8 have a connection with the extensions and are made vertically adjustable by means of the series of holes 9. The lower ends of these arms have horizontal extensions 10, and to these extensions are pivoted the rear sets of shovel-beams
30 11. Hand-levers 12 have a pivotal connection with the toothed segments 13. The lower ends 14 of the hand-levers are bent in the form of a crank, their free ends being pivoted
35 in supports 15. Chains 16 connect the rear shovel-beams 11 with the cranks of the hand-levers, and by means of these hand-levers the rear shovels can be raised and lowered. These shovels are held from moving transverse to
40 the line of draft.

The bars 1 of the main frame support a tongue 17, and at each side of the tongue are pivoted bars 18, having their rear ends 19 bent at right angles to their length and their front
45 ends 20 extending downward. To the front lower ends of the bars 3 are pivoted rods 21, which extend through the boxes 4 in the extension 3 of the main frame. A brace-bar 22 connects the free ends of the bar 18 and the
50 horizontal portions thereof.

Foot-levers 23 have a pivotal connection

with the free ends of the arms and provided with stirrups. Links 24 have a pivotal connection with the foot-levers and with the extension 10, supporting the rear shovel-beams. 55

To the rods 21 are set screwed heads 25, each having two lengthwise slots 26 and a transverse bolt-hole 27. A shovel-support 28 has a pivotal connection with the head, and to its inner face is secured a bracket 29 and a
60 hook 30.

A shovel-support 31 has a connection with the shovel-support 28 by an arm 32, adjustably supported by the bracket 29, and the hook 30 forms a connection between the
65 shovel-supports.

The heads support coiled springs 33 and their free ends are connected together by a cross-bar 34, which rests upon the shovel-supports 28. This spring serves to force the
70 shovel-beams 28 and 31 into the ground.

Pulleys 35 are suspended from the main frame. Chains 36 pass over the pulley, having their front ends connected with the shovel-beams 28 and their rear ends connected with
75 the projections 37 of the hand-levers 12, and by means of the hand-levers the shovel-supports can be raised or lowered.

By means of the foot-lever and stirrups the forward sets of shovels may be moved transverse to the line of draft in either direction, and by means of the hand-levers all of the shovels can be raised and lowered in unison. The forward shovels are used for hilling the corn, and the chains limit the working depth
85 of the shovels. A yoke or sway-bar 38 has a connection with the transverse movable rods 21 and guided by the lip 39, extending from the front face of the bar 1 of the main frame, through which both forward sets of shovel-
90 supports are moved transverse to the line of draft in unison.

By means of the two slots 26 in the heads 25 the shovel-supports 28 can be moved closer to the corn, and if deemed necessary the
95 shovel-supports 31 can be detached from their connection with the shovel-supports 28.

I claim as my invention—

1. In a cultivator, the combination of a main frame and supporting-wheels, shovel-supports
100 having a slidable connection with the main frame transverse to the line of draft, two rock-

ing foot-levers supported by the main frame having a connection with the shovel-supports, and braces connecting the foot-levers with the shovel-supports.

5 2. In a cultivator, the combination of a main frame and supporting-wheels of shovel-supports having a slidable connection with the main frame transverse to the line of draft, two rocking foot-levers supported by the main
10 frame having a connection with the shovel-supports for moving them, and springs for holding the shovels in working position.

3. In a cultivator, the combination of a main frame and supporting-wheels, of brackets depending from the main frame having vertically-adjustable sections, the sections having horizontal extensions and shovel-supports

connected to the extensions in a manner to permit of a vertical movement only.

4. In a cultivator, the combination of a main 20 frame and supporting-wheels, a rear and front set of shovels, the front set movable transverse to the line of draft independent of the rear set a hand-lever having its lower end in crank form and having a connection with the 25 rear set of shovels and having a forward extension, and a chain passing over a pulley connecting the extension of the hand-lever and front set of shovels.

WILLIAM G. SCOTT.

Witnesses:

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