

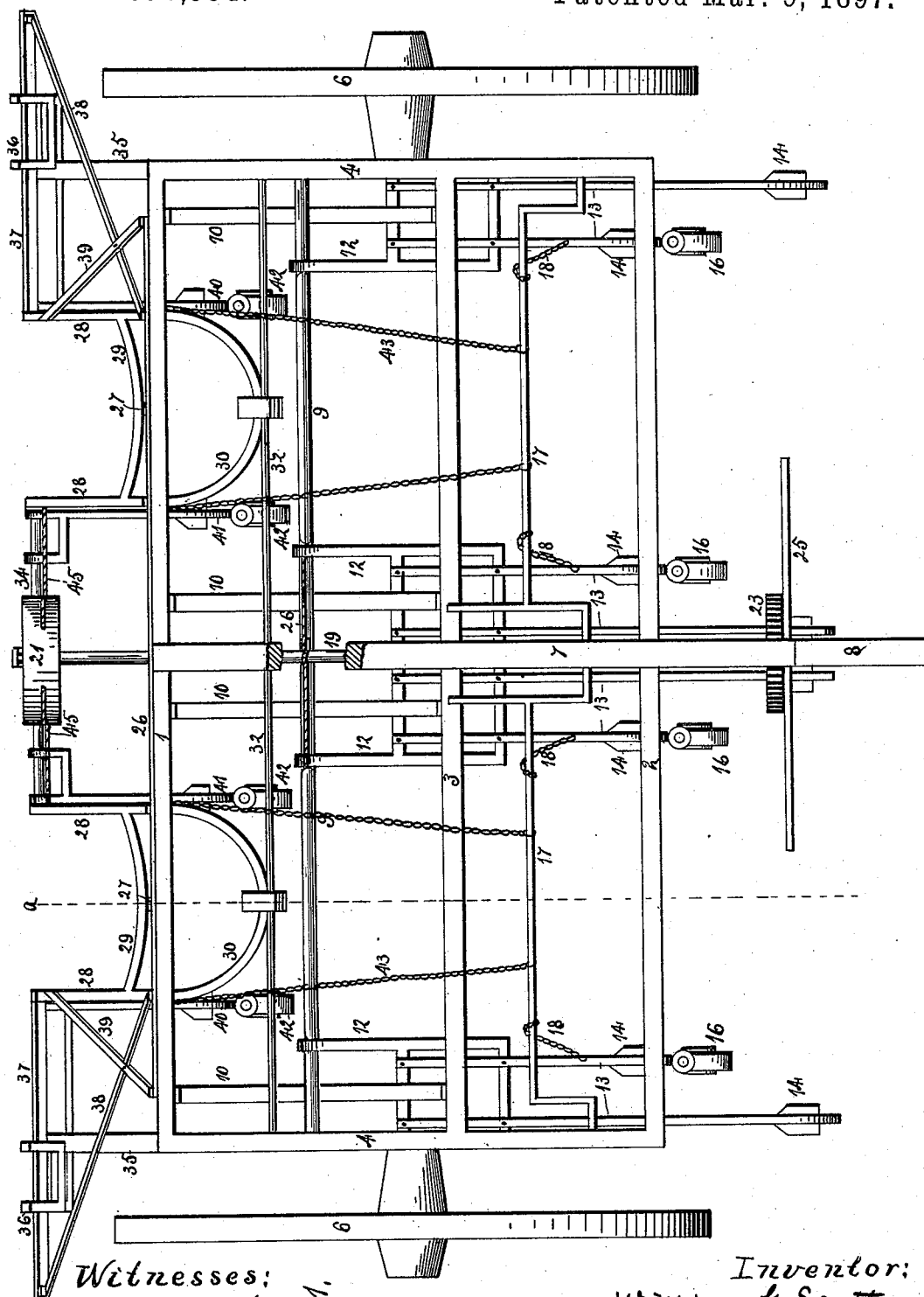
(No Model.)

3 Sheets—Sheet 1.

W. G. SCOTT.
CULTIVATOR.

No. 578,584.

Patented Mar. 9, 1897.



Witnesses;

N. M. Ward
E. Behel.

Inventor:

William G. Scott
By A. O. Rebel
Atty.

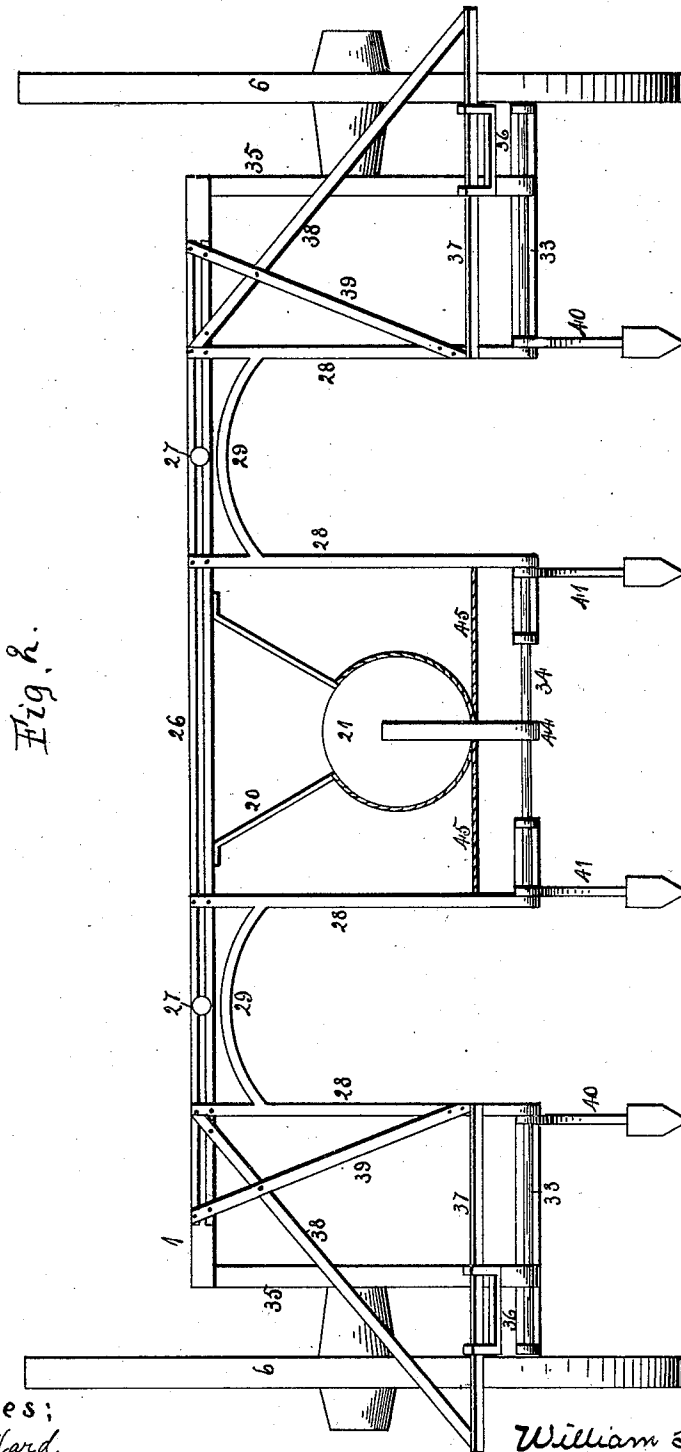
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Fig. 3.

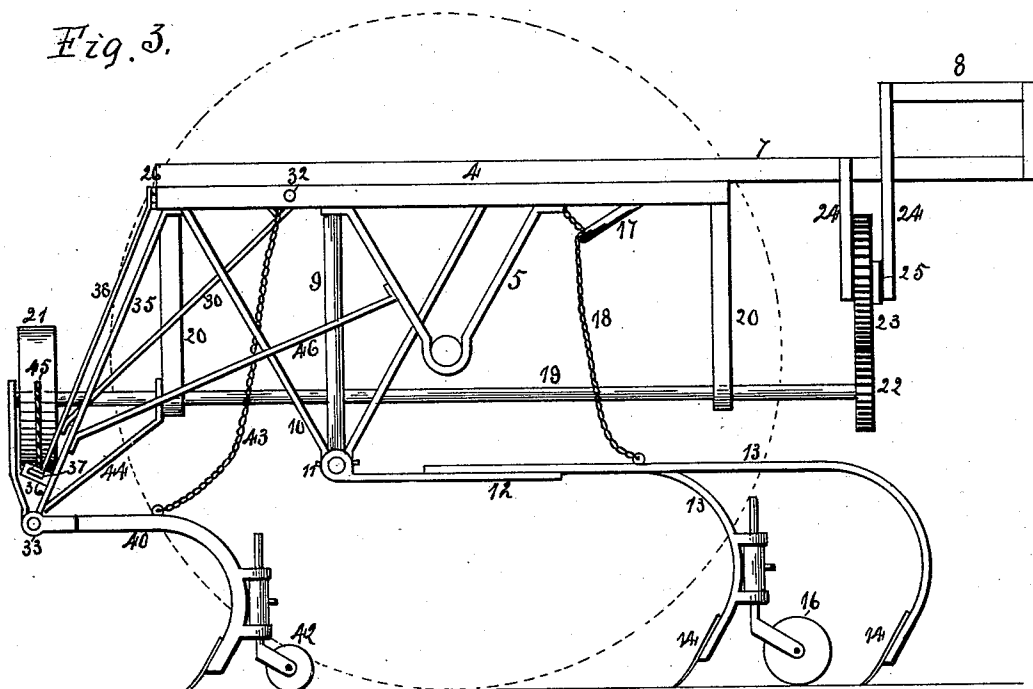
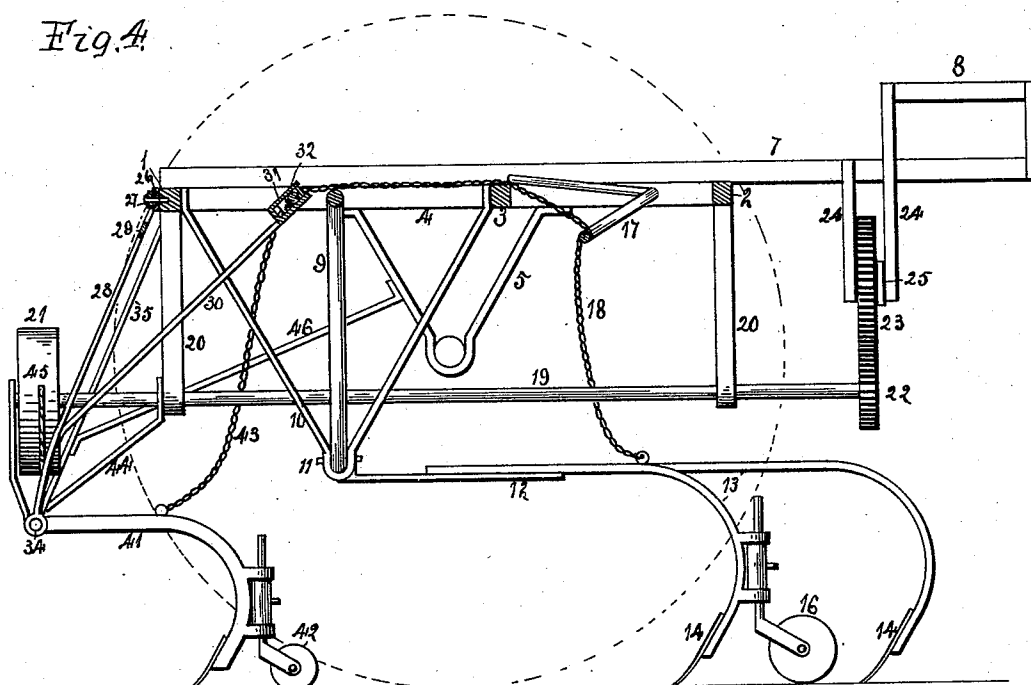


Fig. 4.



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UNITED STATES PATENT OFFICE.

WILLIAM G. SCOTT, OF ROCK DELL, MINNESOTA.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 578,584, dated March 9, 1897.

Application filed August 31, 1896. Serial No. 604,462. (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 independent sets of shovels are employed, the forward set capable of being moved transverse to the line of draft of the cultivator.

In the accompanying drawings, Figure 1 is a plan view of my improved cultivator. Fig. 2 is a front elevation of the main frame of the cultivator and the mechanism supporting the front set of shovels. Fig. 3 is an end elevation. Fig. 4 is a transverse section on dotted line *a*, Fig. 1.

The main frame consists of the outside lengthwise bars 1 and 2, and central bar 3, connected by end bars 4. From the end bars depend brackets 5, supporting carrying-wheels 6. A bar 7 is supported by the main frame, and its rear end supports an attendant's seat 8.

A coupling-bar or yoke 9 extends transverse to the line of draft of the cultivator and is located about centrally between the center bar 3 and front lengthwise bar 1 of the main frame and is held supported by brackets 10, secured to the under face of the bars 1 and 3, and a pin 11 is passed through the yoke and lower end of the bracket, thereby forming a connection between these parts. Upon the lower portion of the yoke are pivotally supported brackets 12, to which are secured shovel-standards 13, supporting shovels 14. One standard of each set supports a caster-wheel 16, which is made vertically adjustable, thereby holding the shovels at the proper running depth.

A lifting-lever 17 for each half of the cultivator has a pivotal connection with the main frame, and chains 18 connect the lever with the standards of the rear set of shovels.

A shaft 19 is located beneath the main frame and supported in brackets 20, depending from the main frame, its forward end supporting a drum 21 and its rear end supporting a toothed pinion 22. A gear-wheel 23 is located over the pinion and meshes therewith and held in proper position by brackets 24.

A foot-lever 25 is secured to the gear-wheel 23, extending in a horizontal plane each side of the seat 8. A chain or band 26 surrounds the shaft 19, its ends connected to the yoke or coupling-bar 9, so that the oscillatory movement of the shaft 19 will cause the coupling-bar to be moved transversely to the line of draft of the cultivator in order that the shovels supported by the yoke may be moved toward or from the corn during the process of cultivation, and this is accomplished by the attendant moving the foot-lever 25.

Thus far described the construction is substantially the same as that patented to me February 18, 1896, No. 554,841, and to which I have added an independent set of shovels, located in advance of the shovels 14 and movable transversely to the line of draft of the cultivator, which will now be explained.

To the front face of the front bar 1 of the main frame of the cultivator is located a slidable bar 26, held supported by rollers 27 at proper intervals. To this bar is secured a framework for each row of corn, consisting of the vertical bars 28, connected at their upper ends by a curved cross-bar 29, and to the rear face of these bars is secured a yoke 30, extending upward in an oblique direction, supporting a roller 31 at its upper end. This roller moves in contact with a rod 32, extending transversely of the cultivator, which acts to hold the framework in proper position. To the lower ends of the vertical bars are secured horizontal rods 33 and a center rod 34, connecting the two frames. From the main frame at its ends depend brace-bars 35, which connect with the rods 33 near their outer ends, and to the upper face of these brace-bars, near their lower ends, are secured grooved guideways 36. A rectangular bar 37 is secured to one of the vertical bars 28 and is located in the grooved guideway. A diagonal brace-bar 38 is connected to the outer end of the rectangular bar 37, also with the slidable bar 26, and a brace-bar 39 connects one of the vertical bars 28, brace-bar 38, and slidable bar 26. A shovel-standard 40 is supported by each of the rods 33 and two standards 41 by the center rod 34. Each of these standards supports a caster-wheel 42, made vertically adjustable to regulate the working depth of the shovels. A chain 43 for each standard connects it with

the lifting-lever 17. A bracket 44 connects the center rod 34 and shaft 19, thereby supporting the rod in proper position. A cord or band 45, connected to the drum 21, has its ends connected to one vertical bar 28 of each of the frames.

A brace-bar 46 is connected to the bar 35, also to the front face of the brackets 5, supporting the carrying-wheels.

10 The attendant seated upon the seat 8 may by a downward pressure of his foot upon the lever 25 turn the shaft in either direction, which will turn the drum and through the flexible connection 45 move the frame sup-
15 porting the forward set of shovels transversely of the cultivator, thereby moving the shovels toward and from the corn during the process of cultivation.

I claim as my invention—

1. In a cultivator, the combination of a main frame, a supplemental frame located in advance of the main frame, having a slidable connection with the main frame transverse to the line of draft, and supporting a series of shovels, and means for moving it.

2. In a cultivator, the combination of a main frame, a supplemental frame having a slidable connection with the main frame, supporting a series of shovels, means for moving the supplemental frame, and a rearwardly-extending yoke-brace for the supplemental frame.

WILLIAM G. SCOTT.

Witnesses:

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