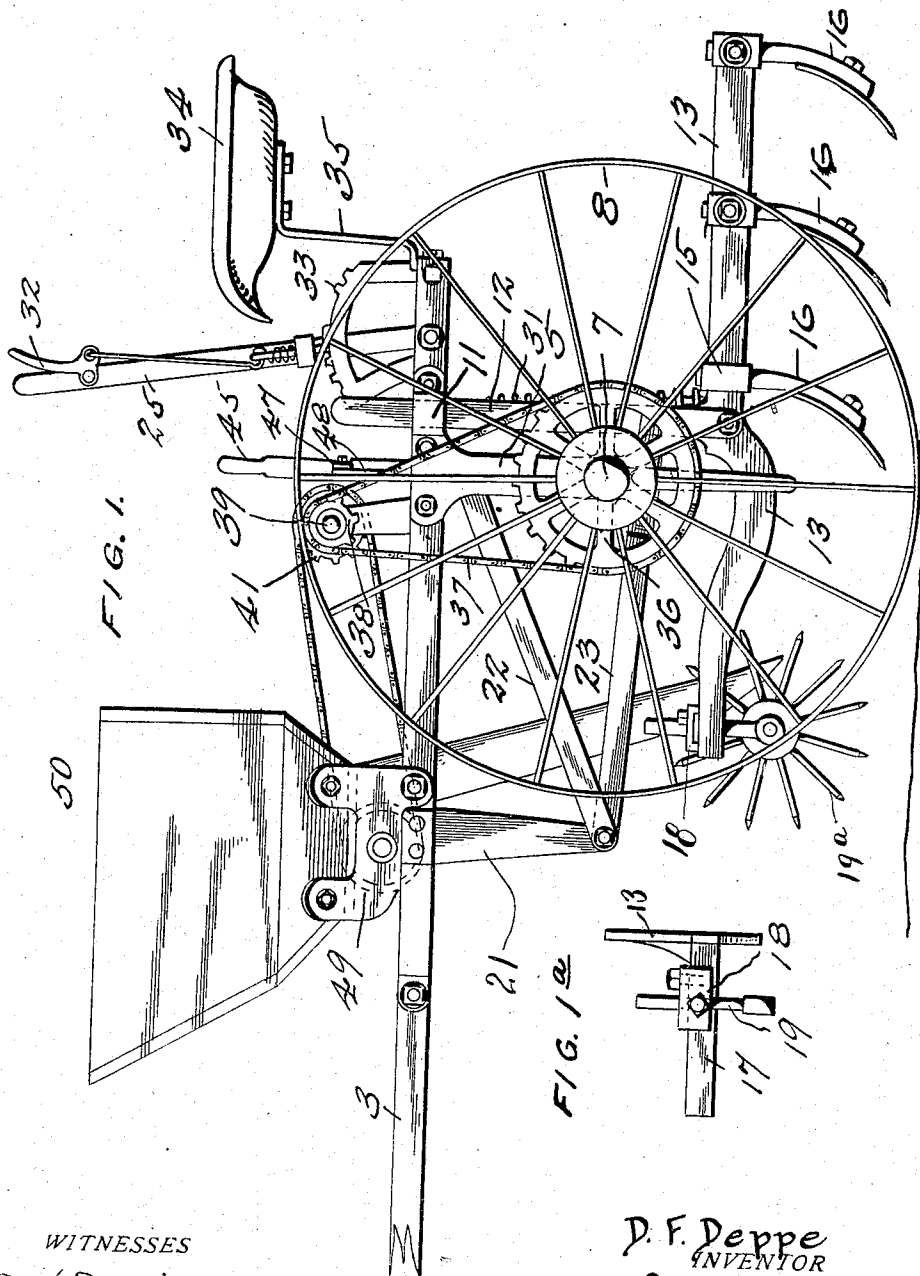


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APPLICATION FILED AUG. 10, 1908.

936,765.

Patented Oct. 12, 1909.
3 SHEETS—SHEET 1.



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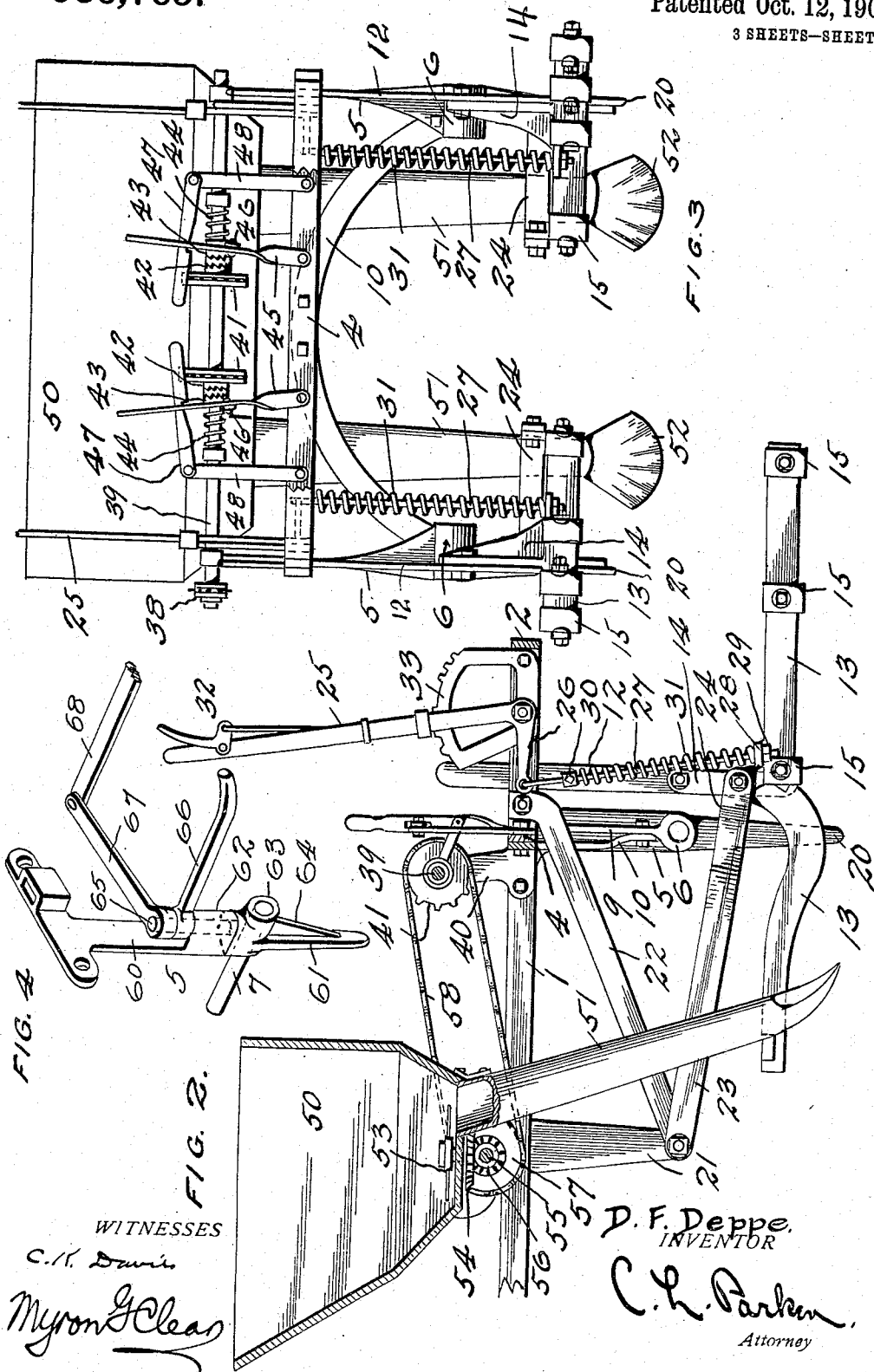


FIG. 1

FIG. 2.

FIG. 3

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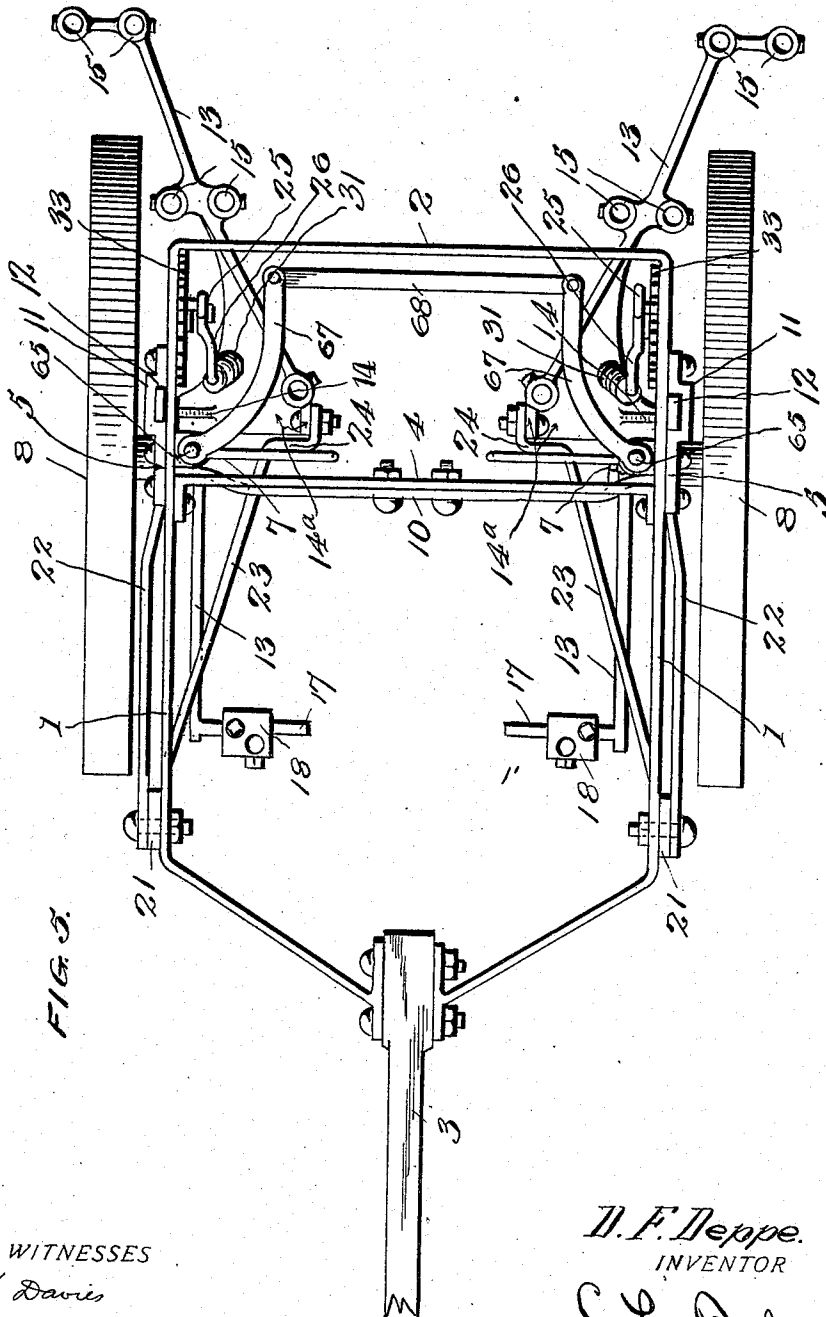


FIG. 3.

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UNITED STATES PATENT OFFICE.

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CULTIVATOR.

936,765.

Specification of Letters Patent.

Patented Oct. 12, 1909.

Application filed August 10, 1908. Serial No. 447,786.

To all whom it may concern:

Be it known that I, DENNIS F. DEPPE, a citizen of the United States, residing at Newbern, in the county of Craven and State of North Carolina, have invented certain new and useful Improvements in Cultivators, of which the following is a specification.

My invention relates to cultivators, and particularly contemplates the provision of a simple compact and readily adjustable construction embodying novel and elastic connections for supporting the soil working devices.

In the accompanying drawings, illustrating my invention, and forming a part of this specification, like numerals are used to designate like parts throughout the several figures, and Figure 1 is a side elevation of my improved machine. Fig. 1^a is a front end elevation of one of the beams for supporting the soil working devices. Fig. 2 is a central vertical longitudinal sectional view taken through my improved machine, with the wheels, their axles, and the soil working devices removed. Fig. 3 is a rear elevation thereof with the rear cross bar of the main frame broken away adjacent the side bars of said frame. Fig. 4 is a perspective view of a modified form of axle standard, and Fig. 5 is a plan view of the machine.

In the practical embodiment of my invention, I provide a horizontal rectangular frame comprising side members 1, and a rear transverse connecting bar 2, said side members 1 being angularly bent at their forward ends, and converging inwardly to a longitudinally central point of the said frame, and connected at their ends to the rear end of the draft beam 3. Extending transversely of the said frame, inwardly and parallel with its rear bar 2, is a supporting bar 4. Depending from the side members 1 of the frame, in alinement with the transverse supporting bar 4, are standards 5 provided with transverse tubular portions 6, for the reception of short wheel axles 7, upon which are mounted the wheels 8 at the sides of said frame. The standards 5 are also provided with longitudinally extending ribs 9 to support their said tubular portions 6, to which ribs, adjacent said tubular portions, are connected the ends of a supporting arch member 10, which is centrally secured to the transverse supporting bar 4.

Mounted to slide vertically through brackets 11, upon the side members 1, and extend-

ing parallel with the depending standards 5, are guide bars 12, to which, at their lower ends, are attached horizontal diagonally extending beams 13, having central vertical portions 14 bolted to said guide bars 12, and each provided with spaced vertical tubular members 15, in its length, rearwardly of said portion 14, for the adjustable reception therein of the soil working device shanks 16. Upon their forward ends, the beams 13 are provided with relatively short extension bars 17 projecting inwardly at right angles thereto, and adapted for the reception of a slide bracket 18 adjustable thereon, and formed to receive adjustably therein, the shank 19 of a suitable soil working device such as a clod breaking spider disk 19^a, which may, by this construction, be adjusted laterally of the machine for a short distance. In their vertical adjustment, the beams 13, bear against the inner surface of a depending extension piece 20, of the standards 5, below their tubular portions 6.

Depending from the side members 1 of the frame, forwardly of the standards 5, are standards 21, which are supported by diagonal brace bars 22 connected to, and extending between the lower end of the standards 21 and the side members 1. To the lower end of standards 21 are pivotally connected the forward ends of pivot supporting bars 23, provided with inwardly offset rear ends 24, pivotally secured to an extension 14^a of the central portion 14 of the beams 13, to further support said beams in their vertical adjustment.

In order to vertically adjust the beams 13, I provide vertical levers 25, pivotally mounted at their lower ends upon the side members 1 of the frame, and provided with forwardly angular extensions 26 adjacent their pivot, which extensions are connected by a connecting rod 27, to the said beams 13, said beams being provided with apertured lugs 28 through which the lower end of said rods 27 loosely extend, and are provided with nuts 29 therebelow. The rods 27 are further provided with rigid sleeves 30 adjacent their upper end, and with metal springs 31 mounted thereabout and extending between said beam lugs 28 and the said rigid sleeves 30, thereby forming an elastic support for said beams 13, whereby the same may move vertically against the tension of said springs, during the operation of the soil working devices carried thereby. The beam operat-

ing levers 25 are provided with latch mechanisms 32 for engagement with the notches of a quadrant 33 secured to the side members 1 adjacent the lower end thereof.

5 The driver's seat 34, is mounted at the rear end of the frame, upon a supporting bar 35 secured to and extending from the rear transverse bar thereof.

It will be understood that by changing the soil working devices shown in Fig. 1, 10 for other devices such as solid wheel disks the machine may be converted into a lister or side dresser.

Referring now to Fig. 4, I provide the 15 axle standards 5 in upper and lower sections 60 and 61 respectively, the upper section 60 being provided with a vertical tubular portion 62 at its lower end, while the lower section 61 is provided with a horizontal tubular 20 portion 63, which receives the wheel axles 7, and is supported by a vertical rib 64, said lower portion being also provided with a vertical post 65 projecting upwardly through and above said tubular portion 62 of the 25 upper section, and forming thereby, a pivot upon which said lower axle carrying section may be rotated to guide the wheels in rough places. The posts 65 of each of the axle 30 standards are provided with angular inwardly extending foot levers 66, secured thereto above the tubular portions 62 and extending inwardly, whereby the operator may rotate such posts to guide the wheels. In order that the rotation of the posts 65 35 will be uniform at both sides of the frame, I provide the same with levers 67, extending forwardly therefrom and secured thereto above foot levers 66, which levers 67 are pivotally connected at their forward ends by 40 a connecting rod 68. In this form, the supporting arch member 10 may be secured at its ends to the upper sections 60. Thus the standards 5, shown in Figs. 1 and 3, may be

removed as a whole, and standards constructed as shown in Fig. 4, may be connected to 45 the frame bars 1 of the machine in their place, when operating with the machine upon uneven or hilly ground.

Having fully described my invention, I claim:

1. In a machine of the character described, 50 the combination of a frame, depending standards secured to said frame and provided with transverse tubular portions for the reception of wheel axles, vertical adjustable 55 beams mounted below said frame, adjacent each of said standards, soil working devices mounted upon said beams, and connections between said frame and said beams for adjusting the latter, said standards having ex- 60 tensions below said tubular portions, forming guides for said beams, in their adjustable movement, substantially as described.

2. In a machine of the character described, 65 the combination of a frame, depending standards secured to said frame, and provided with transverse tubular portions for the reception of wheel axles, vertically adjustable beams mounted below said frame, soil work- 70 ing devices mounted upon said beams, elastic means for supporting said beams to permit of the vertical movement thereof during the operation of said soil working devices, and connections between said frame and said 75 beams for adjusting the latter, said standards being provided with extensions below their said tubular portions, forming guides for said beams in their adjustable movement against the inner faces thereof, sub- 80 stantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

DENNIS F. DEPPE.

Witnesses:

C. L. HINCKLEY.

M. M. WEEKS.