

No. 847,879.

PATENTED MAR. 19, 1907.

A. M. BARKER.
CULTIVATOR.

APPLICATION FILED DEC. 3, 1906.

3 SHEETS—SHEET 1.

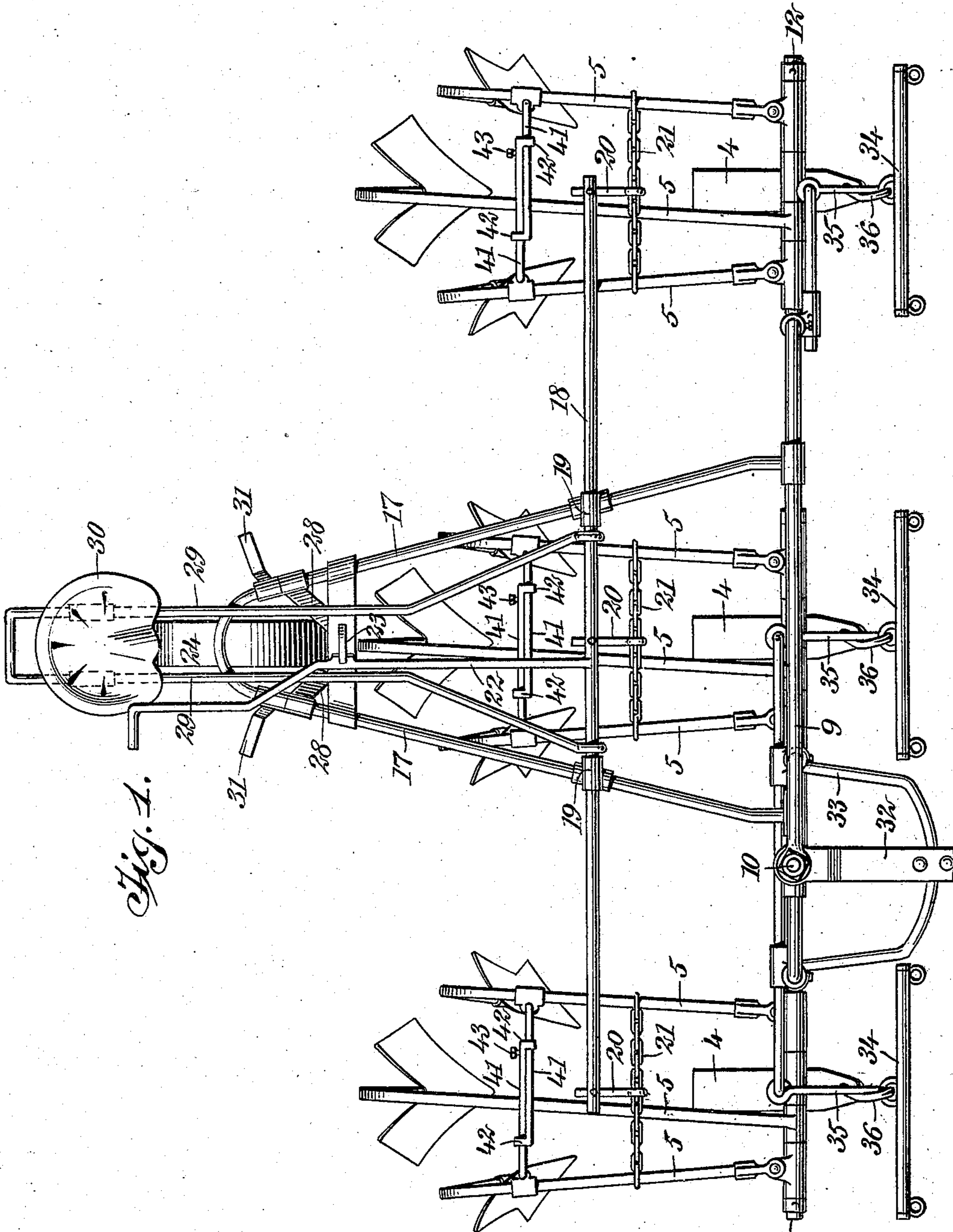


Fig. 1.

WITNESSES

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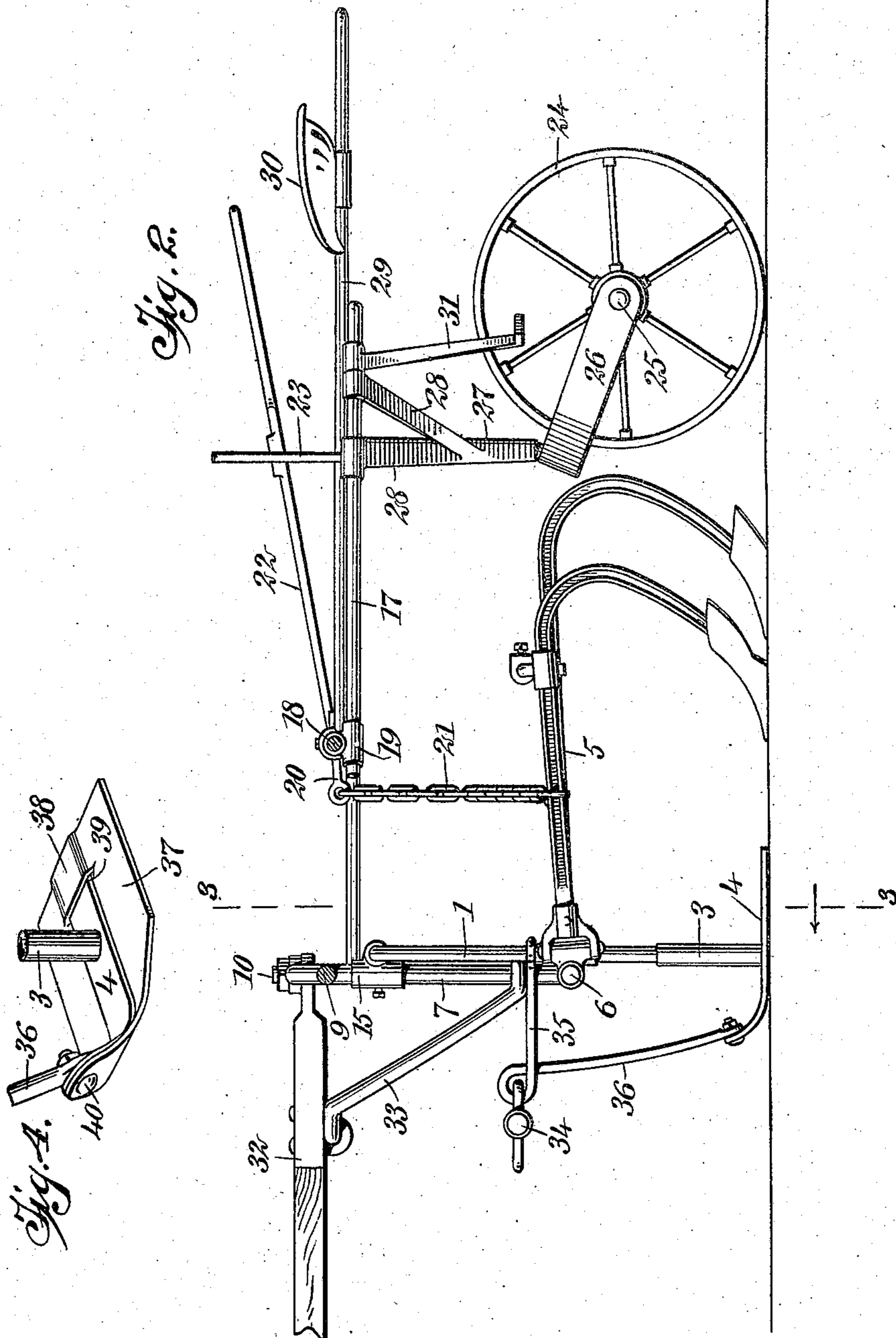
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3 SHEETS—SHEET 2.



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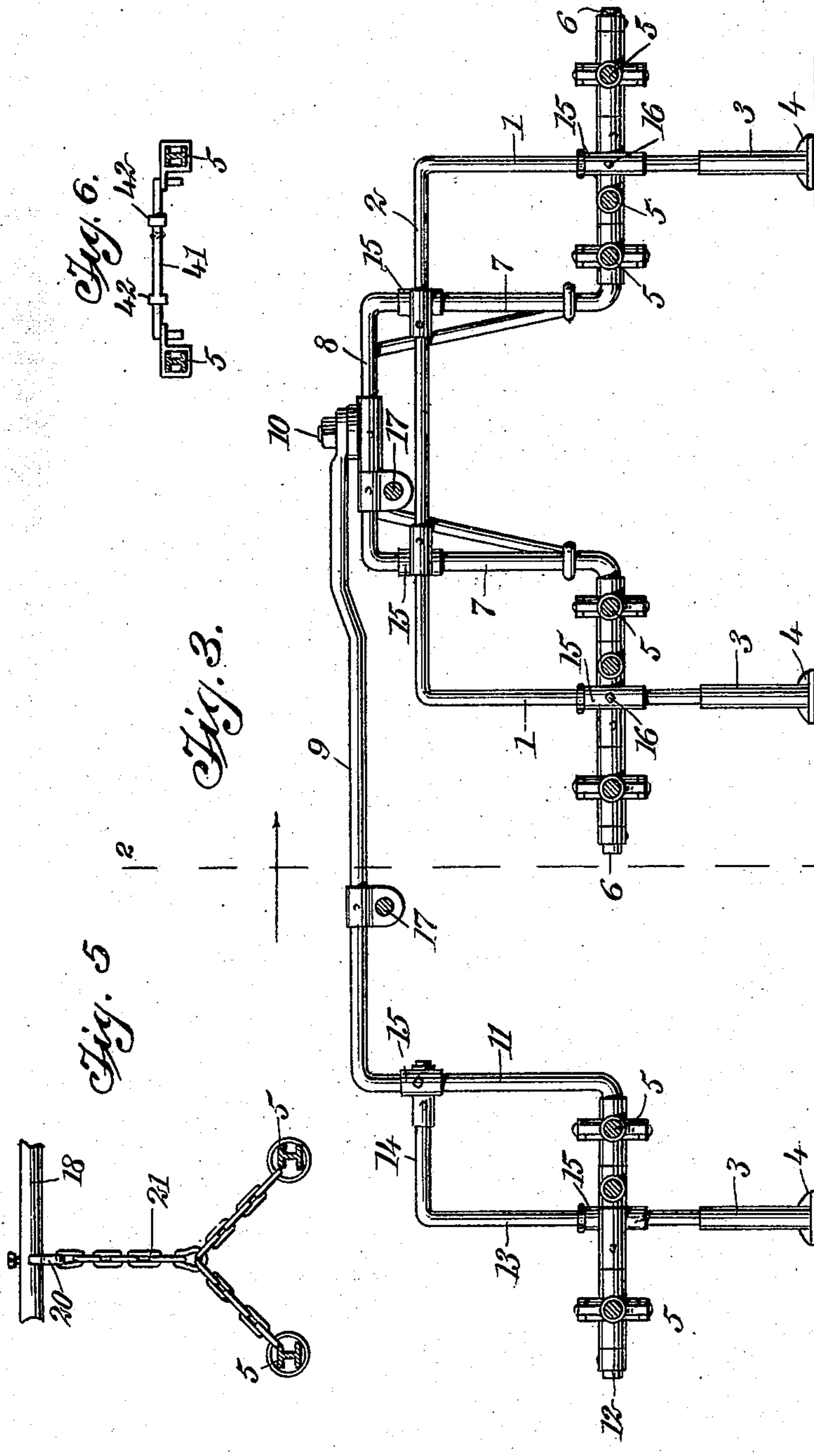
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3 SHEETS—SHEET 3.



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UNITED STATES PATENT OFFICE.

AMOS MORTON BARKER, OF FRANKLIN, NEBRASKA.

CULTIVATOR.

No. 847,879.

Specification of Letters Patent.

Patented March 19, 1907.

Application filed December 3, 1906. Serial No. 346,137.

To all whom it may concern:

Be it known that I, AMOS MORTON BARKER, a citizen of the United States, and a resident of Franklin, in the county of Franklin and State of Nebraska, have invented a new and Improved Cultivator, of which the following is a full, clear, and exact description.

This invention relates to straddle-row cultivators, and has for its object to provide means simple in construction, effective in operation, and durable in use adapted to cultivate one or more rows of plants, as may be desired.

Other objects relating to the specific construction and special arrangement of the several parts of my invention will be understood from the following description and accompanying drawings, in which drawings like characters of reference indicate like parts throughout the views, and in which—

Figure 1 is a plan of a cultivator embodying my invention. Fig. 2 is a side elevation of the same, taken on the line 2 2 of Fig. 3. Fig. 3 is a rear elevation of a carrying-frame and connecting mechanism, taken on the line 3 3 of Fig. 2. Fig. 4 is a perspective view of a shoe upon which the main frame of the cultivator is mounted. Fig. 5 is a transverse section of cultivator-beams and means for raising the same shown in front elevation, and Fig. 6 is a side elevation of means for adjustably connecting together plow-beams, which are shown in cross-section.

As illustrated in the drawings, the main frame of the cultivator comprises a carrying-frame having uprights 1, connected at their upper ends by means of a cross-bar 2 and attached at their lower ends to sleeves 3, fixedly secured to shoes 4, which are thereby adapted to support the main frame and the gang-beams mounted thereon. The gang-beams 5 are secured in the ordinary manner to the offset ends 6 of an arched gang-frame comprising upright bars 7, connected together at their upper ends by means of a cross-bar 8. An auxiliary frame is connected with the main frame by means of a bar 9, preferably attached to the main gang-frame by means of a bolt 10. The connecting-bar 9 is provided with a vertical standard 11, formed integral therewith, having an offset arm 12, forming an auxiliary gang-frame. The aux-

iliary gang-frame is mounted upon an auxiliary frame consisting of the vertical standard 13, having an offset upper end 14, connected with the standard 11 of the auxiliary gang-frame, and is supported at its lower end by a shoe 4, having a sleeve 3 fixedly attached thereto. The main and auxiliary gang-frames are adjustable upon the main and auxiliary carrying-frames by means of sleeves 15, which are secured to the gang-frame in any suitable manner and have a sliding engagement with the vertical standards 1 and 13 of the main carrying-frame and auxiliary carrying-frame, respectively, and are secured on said standards at the proper adjustment by means of set-screws 16 or other suitable means. By means of such vertical adjustment of the gang-frames the gang-beams and the plows mounted thereon are adjusted at the desired elevation.

A sulky-frame is connected with the gang-frames in any suitable manner and may be of any desired construction, but consists, preferably, of side bars 17, looped together at their rear ends and connected at their forward ends to the gang-beams, as shown in Fig. 3. A transverse bar 18 is journaled in bearings 19, which are secured to the side bars 17 of the sulky-frame, and said bar is provided with forwardly-projecting arms 20, having chains 21 connected therewith at their upper ends and at their lower ends with the gang-beams 5, whereby the gang-beams may be raised from the ground or held at the desired elevation by rotating the transverse shaft 18. A lever 22 is connected with said shaft and is adapted to engage a notched standard 23, so as to hold the gang-beams at the desired elevation when adjusted. The rear end of the sulky-frame is supported upon a carrying-wheel 24, having its axle 25 mounted upon a yoke 26, which is provided with a pivotal attachment to a bracket 27, connected with the sulky-frame by means of arms 28, diverging from said standard 27, and connected at their upper ends with the side bars 17 of the sulky-frame. A seat-support is attached to the rock-shaft 18, and consists, preferably, of parallel bars 29, adapted to enable a seat 30 to be mounted and slide thereon. The forward ends of the bars 29 preferably diverge from each other

and connect with the rock-shaft 18, so as to make a strong connection with said shaft. Foot-rests 31 are attached to the side bars 17 of the sulky-frame and are arranged in convenient relation with the seat 30. A tongue 32 is secured to the beam-frame in any suitable manner and is supported on said frame by means of a bracket formed of bars 33, adapted to support said tongue at their upper ends and connected at their lower ends to the upright bars 7 of the main frame. Swingle-trees 34 are connected with the main and auxiliary carrying-frame in any suitable manner, preferably by means of brackets, having upper arms 35 connected with the uprights of said carrying-frame, and vertical bars 36, secured at their lower ends to the shoes 4. Auxiliary shoes 37 may be used, if desired, and made considerably wider than the shoes 4, so as to furnish a broader bearing for the main frame. When such construction is used, I prefer to form the shoe with an offset rear central portion 38, formed by making a transverse slit 39 in the rear portion of the shoe, so as to form a socket adapted to receive the rear end of the shoe 4 and hold said end securely in place. The forward ends of the shoes 37 are connected with the forward ends of the shoes 4 and the bars 36 by means of bolts 40, which enable the auxiliary shoes to be readily applied to the main shoes 4 or removed therefrom when desired.

The gang-beams 5 are connected together by means of interlocking cross-bars 41, having offset ends 42, provided with eyes adapted to receive the shank of the opposite bar, and are secured in place by means of set-screws 43, thereby enabling the gang-beams to be adjusted at the desired distance apart.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a main carrying-frame, of an arched gang-frame secured thereto and provided with offset ends, an auxiliary gang-frame attached to the main gang-frame and provided with an offset end, an auxiliary carrying-frame supporting said auxiliary gang-frame, plow-beams pivotally mounted on the offset ends of said gang-frames, and mechanism adapted to raise and lower said plow-beams in unison, substantially as shown and described.

2. The combination of a main carrying-frame, comprising vertical bars connected together at their upper ends by means of a cross-bar, and a main gang-frame comprising an arched bar having offset ends adjustably secured to the uprights of the carrying-frame, an auxiliary carrying-frame, an auxiliary gang-frame adjustably mounted on said

carrying-frame, a beam connecting the auxiliary and the main gang-frames, and plow-beams mounted on said gang-frames, substantially as shown and described.

3. The combination of a main carrying-frame, a main gang-frame vertically adjustable thereon, an auxiliary carrying-frame, an auxiliary gang-frame connected with the main gang-frames, a sulky-frame connected with the main and auxiliary gang-frames, and a carrying-wheel supporting said sulky-frame, substantially as shown and described.

4. The combination with a main frame, of a main gang-frame adjustably mounted thereon, an auxiliary carrying-frame, an auxiliary gang-frame adjustably secured thereto, plow-beams pivotally mounted on the gang-frames, a sulky-frame connected with the gang-frames, a rock-shaft mounted on said sulky-frame, a lever mounted on said shaft and connected with the gang-beams, and a carrying-wheel adapted to support the main frame, substantially as shown and described.

5. The combination with a main carrying-frame mounted upon shoes, of a main gang-frame vertically adjustable on said carrying-frame, an auxiliary carrying-frame supported on a shoe, an auxiliary gang-frame, plow-beams mounted on said gang-frames, a sulky-frame connected with said gang-frames, a rock-shaft journaled on said sulky-frame, and means connected with said rock-shaft adapted to raise and lower the plow-beams connected with the main and auxiliary plow-frames, in unison, substantially as shown and described.

6. The combination with a main carrying-frame, of a main gang-frame mounted thereon, an auxiliary carrying-frame, and an auxiliary gang-frame secured thereto, a sulky-frame secured to said gang-frames, a carrying-wheel adapted to support said sulky-frame, plow-beams mounted on said gang-frames, and swingle-trees connected with the main and auxiliary carrying-frames respectively, substantially as shown and described.

7. The combination with a main carrying-frame, of a main gang-frame mounted thereon, an auxiliary carrying-frame, an auxiliary gang-frame secured thereto, shoes attached to the lower ends of the carrying-frames, whiffletrees connected with said shoes and carrying-frame, plow-beams pivotally attached to the gang-frames, a sulky-frame secured to the gang-frames, and a carrying-wheel adapted to support said sulky-frame, substantially as shown and described.

8. The combination with a main carrying-frame, a main gang-frame mounted thereon, an auxiliary carrying-frame, an auxiliary gang-frame connected therewith, shoes fixedly attached to the lower ends of the carry-

ing-frames, auxiliary shoes adapted to be detachably secured to the shoes of the carrying-frames, plow-beams mounted on the gang-frames, a sulky-frame connected with the
5 gang-frames, and a carrying-wheel adapted to support said sulky-frame, substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

AMOS MORTON BARKER.

Witnesses:

IRWIN E. WHITMORE,
LEMUEL ROBINSON.