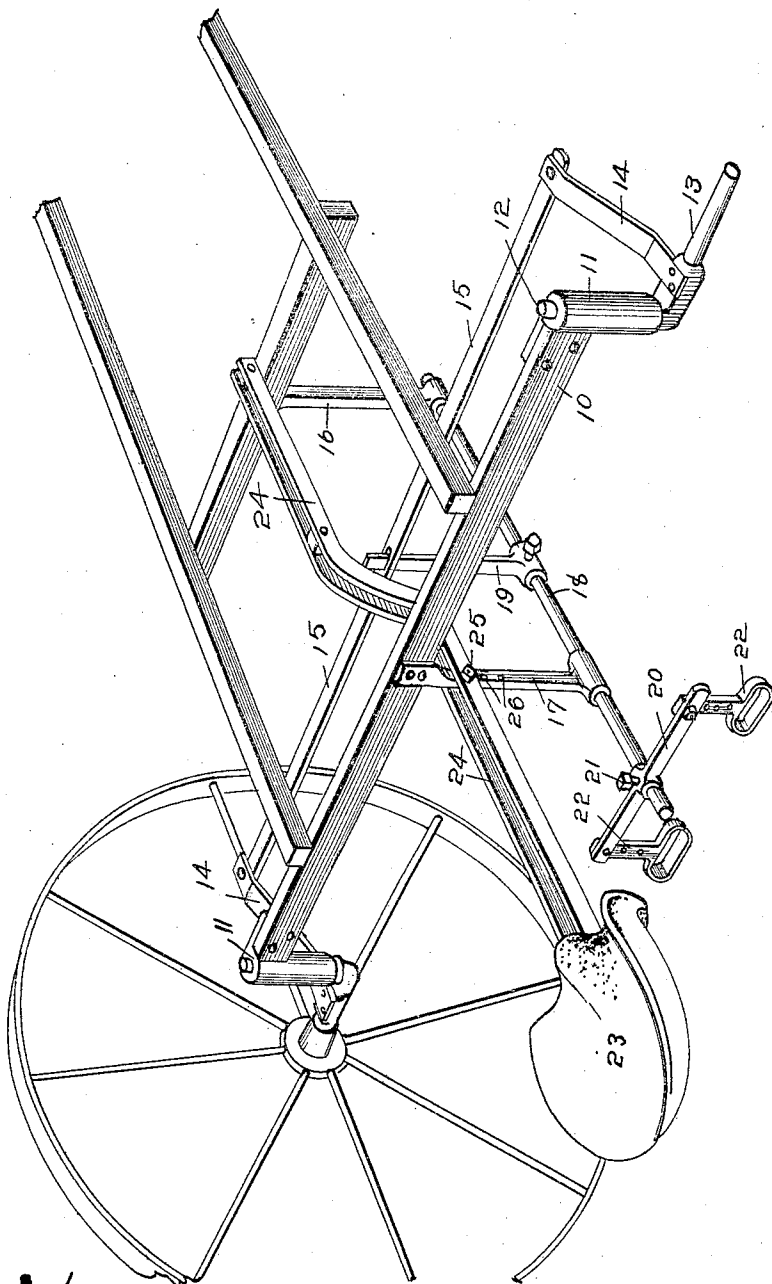


No. 835,572.

PATENTED NOV. 13, 1906.

E. STEVENSON.
RIDING CULTIVATOR.

APPLICATION FILED SEPT. 5, 1905. RENEWED AUG. 29, 1906.



Witnesses.

A. G. Hague,

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UNITED STATES PATENT OFFICE.

EVERITTE STEVENSON, OF MITCHELLVILLE, IOWA.

RIDING-CULTIVATOR.

No. 835,572.

Specification of Letters Patent.

Patented Nov. 13, 1906.

Application filed September 5, 1905. Renewed August 29, 1906. Serial No. 332,484.

To all whom it may concern:

Be it known that I, EVERITTE STEVENSON, a citizen of the United States, residing at Mitchellville, in the county of Polk and State of Iowa, have invented a certain new and useful Improvement in Riding-Cultivators, of which the following is a specification.

The object of my invention is to provide simple, durable, and inexpensive means whereby the operator riding upon a machine of this class may by a manipulation of the foot-rests of the machine steer the supporting-wheels of the machine as required to accurately direct the machine between the rows being cultivated.

My invention consists in the construction, arrangement, and combination of the steering device, with the machine-frame and operator's seat, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims, and illustrated in the accompanying drawing, in which I have shown a perspective view of a portion of a riding-cultivator frame with my improvements applied thereto.

Referring to the accompanying drawing, I have used the reference-numeral 10 to indicate the portions of the machine-frame shown. At the ends of the rear cross-piece of the machine-frame are the upright journals 11, in which one rotatably mounted in the upright portions 12 of the stub-axles 13. Fixed to each of the stub-axles is a forwardly-projecting arm 14, and these arms are pivotally connected by means of the cross-rod 15. Fixed to the machine-frame are two hangers 16 and 17, which hangers support the rock-shaft 18, arranged longitudinally below the center of the machine-frame. Adjustably fixed to the rock-shaft 18 is an arm 19, pivotally connected with the central portion of the rod 15, so that when the shaft 18 is rocked the forward ends of the arms 14 will be moved laterally relative to a fore-and-aft line through the machine, and this movement will of course change the positions of the supporting-wheels, and the machine will thereby be guided. On the rear end of the shaft 18 is a cross-piece 20, adjustably secured thereto by the set-screw 21. Adjustably fixed to each end of the cross-piece 20 is a stirrup 22. The operator's seat 23 is supported upon a beam 24, which beam is fixed at its forward end to a cross-piece of the frame and is adjustably fixed at its rear end to the hanger 17 by

means of the bolt 25, which may be passed through any of the openings 26 in the hanger 17. In this way the seat may be adjusted vertically.

In practical use the operator first adjusts the seat and stirrups as desired, the seat being adjusted up and down by means of the bolt 25 in the openings 26 and the stirrups being adjusted longitudinally of the shaft 18 by means of the set-screw 21. If the operator desires to direct the supporting-wheels toward the right, he pushes downwardly on the right stirrup, thus swinging the upper end of the arm 19 toward the right and moving the forward ends of both of the arms 14 toward the right, and in this way the direction of the advance of the machine may be controlled.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States therefor, is—

1. The combination of a vehicle-frame, axles mounted in vertical bearings at the side of the frame, supporting-wheels arranged vertically and mounted on said axle, arms projecting forwardly from the axles, a rod connecting both arms, brackets secured to the frame and projected downwardly, a rock-shaft in said brackets, an arm fixed to the rock-shaft and connected with said rod, stirrups on the opposite sides of the rock-shaft and connected therewith, and a driver's seat above the stirrups.

2. The combination with a vehicle-frame, axles arranged in vertical bearings at the sides of the vehicle-frame, vertically-arranged wheels on said axle, an arm fixed to each axle and projected forwardly, a rod connecting both arms, two brackets fixed to the frame and projected downwardly therefrom, a rock-shaft supported in said arm, an arm fixed to the rock-shaft and connected with said rod, a cross-piece adjustably mounted on the rear of said rock-shaft, stirrups adjustably mounted on the ends of said cross-piece, a bar connected at its forward end of the frame and adjustably connected at its central portion with one of the arms for supporting the rock-shaft and a driver's seat on the rear end thereof.

Des Moines, Iowa, July 31, 1905.

EVERITTE STEVENSON.

Witnesses:

ALVA C. WILEY,
R. A. SHREVES.