C. H. MELVIN.

SULKY PLOW.

APPLICATION FILED MAY 18, 1911.

1,012,405.

Patented Dec. 19, 1911.

2 SHEETS—SHEET 1.

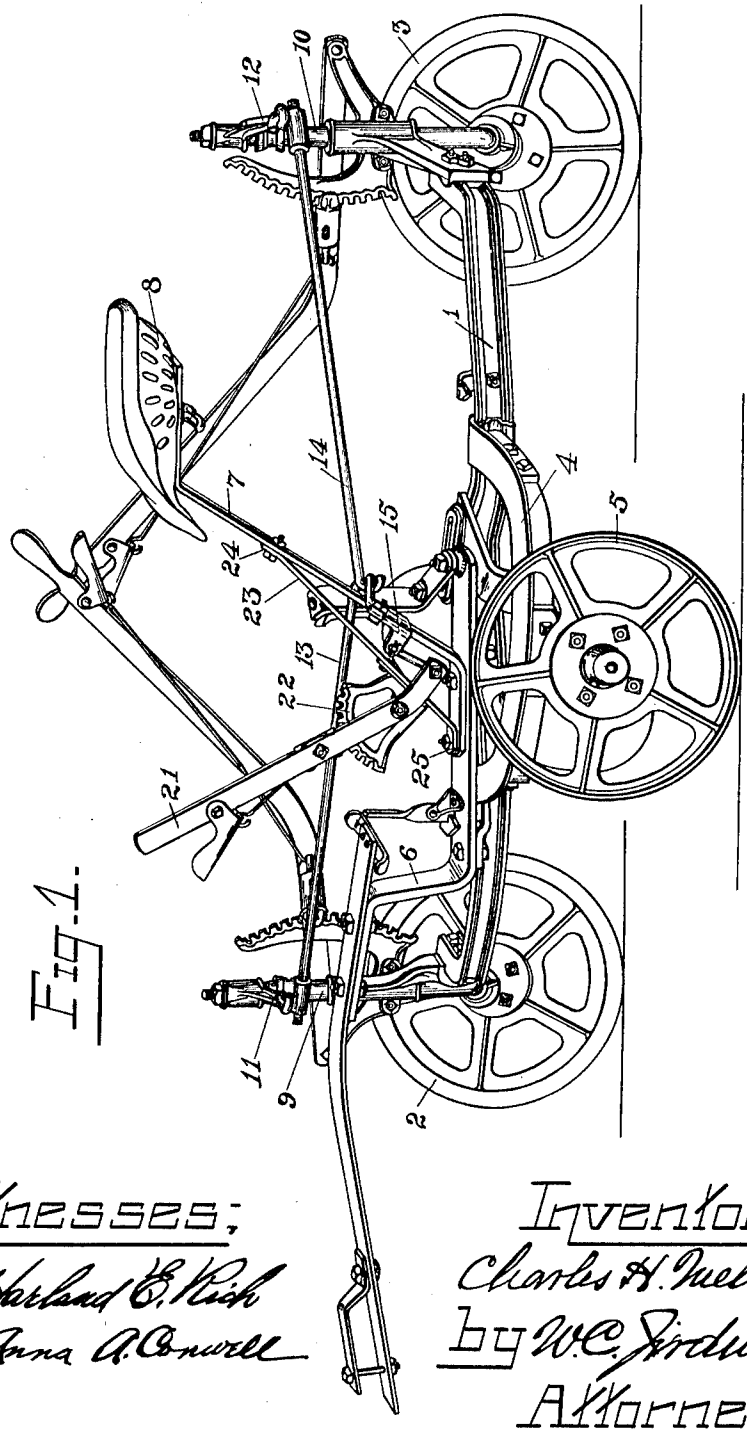

Fig. 1.

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2 SHEETS—SHEET 2.

Fig. 2.

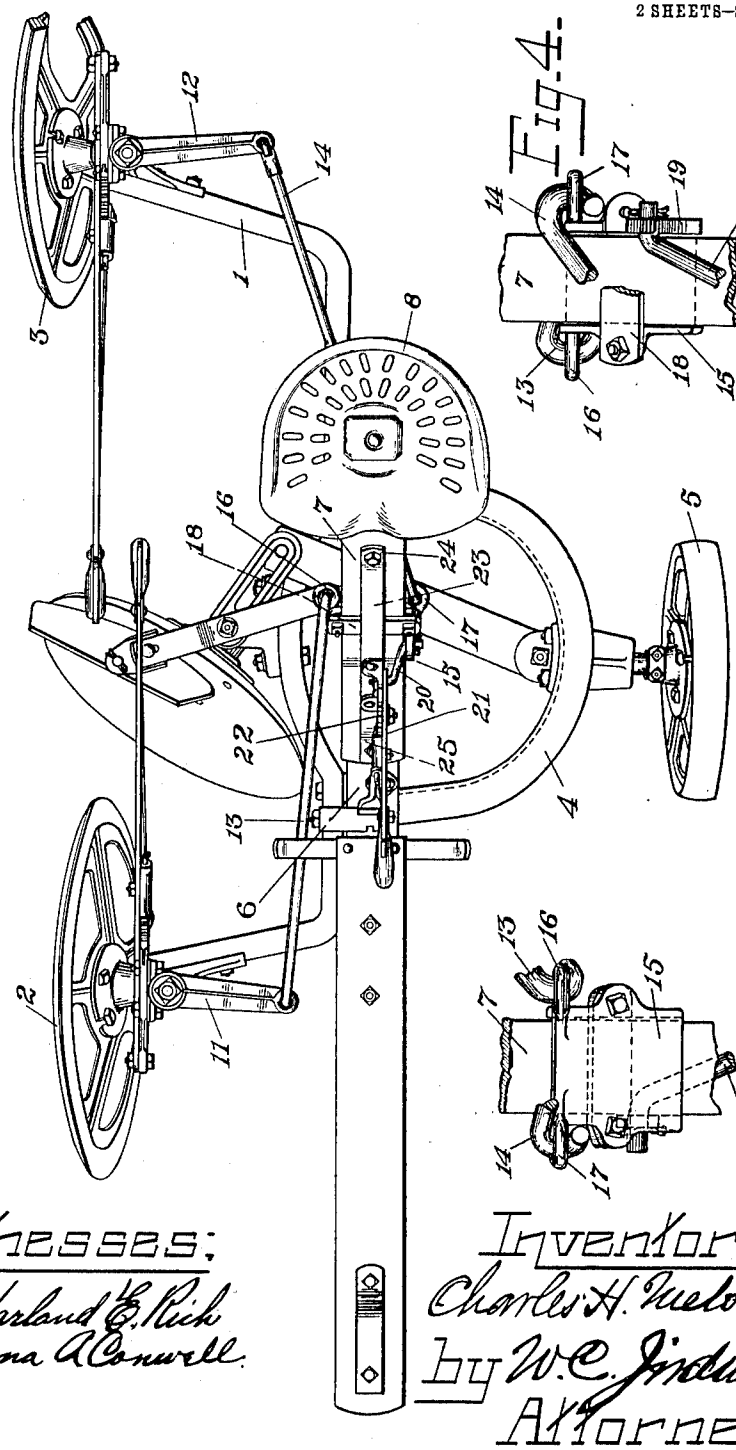

Fig. 4.

Fig. 3.

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UNITED STATES PATENT OFFICE.

CHARLES H. MELVIN, OF MOLINE, ILLINOIS, ASSIGNOR TO DEERE & COMPANY, OF MOLINE, ILLINOIS, A CORPORATION OF ILLINOIS.

SULKY-PLOW.

1,012,405. Specification of Letters Patent. Patented Dec. 19, 1911.

Application filed May 18, 1911. Serial No. 628,121.

To all whom it may concern:

Be it known that I, CHARLES H. MELVIN, a citizen of the United States, residing at Moline, in the county of Rock Island and State of Illinois, have invented certain new and useful Improvements in Sulky-Plows, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in sulky-plows, on which adjustable front and rear furrow-wheels are employed, and it refers more particularly to the means used to accomplish adjustment of the furrow-wheels.

My invention has for its object a more effective control of the furrow-wheels, so that their position may be more readily varied at will.

Referring to the drawings in which similar reference numerals indicate identical parts—Figure 1 is a side view of a plow in perspective showing my improvement. Fig. 2 is a plan view of Fig. 1, and Figs. 3 and 4 are details.

I have shown my improvement applied to a plow in which the frame consists of a longitudinal frame-bar 1 supported by a front furrow-wheel 2 and a rear furrow-wheel 3, and a frame-bar 4 rigidly secured to the frame-bar 1, extending laterally landward therefrom and semi-circular in shape, and on a suitable bracket thereon is journaled a landside-wheel 5. A tongue 6 has a seat-support 7 mounted upon it, to which is attached a seat 8.

The furrow-wheels 2 and 3 are journaled on axles forming the lower part of vertical spindles 9 and 10, which have their bearing in suitable brackets secured to the ends of the frame-bar 1. Arms 11 and 12 are rigid with the spindles 9 and 10, and are connected by rods 13 and 14 with a sliding bracket 15 on the seat support 7, the inner ends of the rods being bent to form hooks as shown, engaging with eyes 16 and 17 on either side of the seat support and forming part of the bracket 15, a preferable and simple connection. The sliding bracket 15 embraces the sides of the seat-support 7 and is held thereon by a cross piece 18 securely bolted to the bracket.

Projecting forwardly from a side of the bracket 15, and preferably integral therewith, is an arm 19 having an eye with which engages a bent end of a link 20, the forward end of the latter being also bent to connect with the end of a lever 21 fulcrumed at the base of a toothed-segment 22 rigidly mounted on a brace 23 which is securely bolted to the seat support 7 at 24, and to a horizontal portion of the seat-support and the tongue 6 at 25. The lever 21 is provided with the ordinary latching mechanism to engage with the teeth of the segment 22, and being located close to the seat it is within easy reach of the driver. As previously stated, the bracket 15 slides upon the seat-support 7, and, as shown in the drawing, is central of its total movement, the lever 21 being locked substantially central of the teeth on the toothed segment 22, and the furrow-wheels 2 and 3 held securely parallel with the line of draft. It will be readily understood that by disengaging the lever 21 from the toothed-segment 22 and moving it forwardly or backwardly, the bracket 15 is moved up or down on the seat-support 7, and the furrow-wheels 2 and 3, through their connection to the bracket 15 by the rods 13 and 14, are swung accordingly. The seat-support 7 is slightly inclined but my improvement will operate equally as well if the seat-support was perfectly vertical.

I have shown my improvement as applied to a reversible plow as illustrated and described in my Patent No. 979,019 issued December 20, 1910, but it is evident that it can be applied to any plow having adjustable furrow-wheels.

What I claim is—

1. In a sulky-plow, the combination with a frame, of supporting wheels including front and rear furrow-wheels, and means substantially central of the plow and movable upwardly and downwardly and connected with the furrow-wheels, to adjust the latter.

2. In a sulky-plow, the combination with a frame, of supporting wheels including front and rear furrow-wheels, and means substantially central of the plow and movable upwardly and downwardly and connected with the furrow-wheels to adjust the latter simultaneously.

3. In a sulky-plow, the combination with a frame, of supporting wheels including front and rear furrow-wheels, a seat-support, and means on the seat-support and

connected with the furrow-wheels and movable upwardly and downwardly to adjust the furrow-wheels.

4. In a sulky-plow, the combination with a frame, of supporting wheels including front and rear furrow-wheels, a seat support substantially central of the plow, and means on the seat-support and connected with the furrow-wheels and movable upwardly and downwardly to adjust the furrow-wheels.

5. In a sulky-plow, the combination with a frame, of supporting wheels including front and rear furrow-wheels, a seat-support, an upwardly and downwardly movable bracket on the seat-support, and connections between the furrow-wheels and the bracket to adjust the furrow-wheels with an upward or downward movement of the bracket.

6. In a sulky-plow, the combination with a frame, of supporting wheels including front and rear furrow-wheels, a seat support substantially central of the plow, an upwardly and downwardly movable bracket on the seat support, and means connecting the furrow-wheels and the bracket to adjust the furrow-wheels with an upward or downward movement of the bracket.

7. In a sulky-plow, the combination with a frame, of supporting wheels including front and rear furrow-wheels, a seat-support, an upwardly and downwardly movable bracket on the seat-support, a connection between the front furrow-wheel and the furrow side of the bracket, a connection between the landside of the bracket and the rear furrow-wheel, and means to raise or lower the bracket to adjust the furrow-wheels.

8. In a sulky-plow, the combination with a frame, of supporting wheels including front and rear furrow-wheels, a seat-support, an upwardly and downwardly movable bracket on the seat-support, a connection between each furrow-wheel and the bracket, and a lever to move the bracket upwardly and downwardly to adjust the furrow-wheels.

9. In a sulky-plow, the combination with a frame, of supporting wheels including front and rear furrow-wheels, a seat-support, an upwardly and downwardly movable bracket on the seat-support, means connecting the furrow-wheels with the bracket, a brace for the seat-support, and a lever on the brace and connected with the bracket to move the latter to adjust the furrow-wheels.

10. In a sulky-plow, the combination with a frame, of supporting wheels including front and rear furrow-wheels, a tongue, a seat-support, an upwardly and downwardly movable bracket on the seat-support, means connecting the furrow-wheels with the bracket, a brace secured to the seat-support and the tongue, and means on the brace and connected to the bracket to move the latter to adjust the furrow-wheels.

11. In a sulky-plow, the combination with a frame, of supporting wheels including front and rear furrow-wheels, a seat support, an upwardly and downwardly movable bracket on the seat-support, connections between the furrow-wheels and the bracket, and means forward of the seat-support and connected with the bracket to move the latter to adjust the furrow-wheels.

12. In a sulky-plow, the combination with a frame, of supporting wheels including front and rear furrow-whels, a seat-support, an upwardly and downwardly movable bracket on the seat-support, means to connect the furrow-wheels with the bracket, a forward brace for the seat-support, and a lever on the brace to move the bracket to adjust the furrow-wheels.

13. In a sulky-plow, the combination with a frame, of supporting wheels including front and rear furrow-wheels, a seat support, an upwardly and downwardly movable bracket on the seat-support, means to connect the furrow-wheels with the bracket, a brace for the seat-support, a toothed-segment on the brace, a lever engaging with the segment, an arm on the bracket, and a link connecting the arm and the lever.

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

CHARLES H. MELVIN.

Witnesses:
ANNA A. CONWELL,
HARLAND E. RICH.