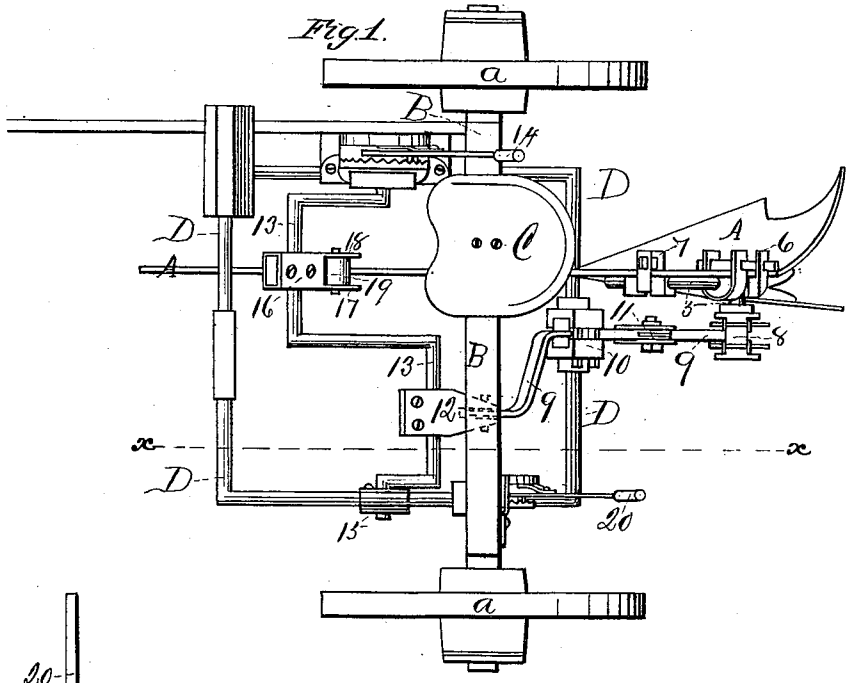
(No Model.)

J. H. BROWN.

Sulky Plow.

No. 230,859. **Patented Aug. 10, 1880.**

Fig. 1.



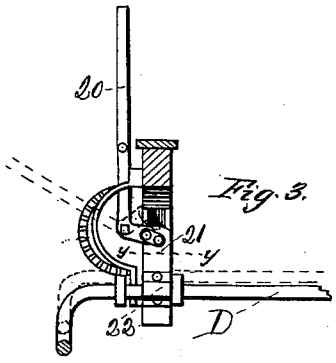


Fig. 3.

Fig. 4.

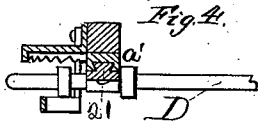


Fig. 2.

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UNITED STATES PATENT OFFICE.

JOHN H. BROWN, OF CRESTON, ILLINOIS.

SULKY-PLOW.

SPECIFICATION forming part of Letters Patent No. 230,859, dated August 10, 1880.

Application filed April 19, 1880. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. BROWN, of Creston, in the county of Ogle and State of Illinois, have invented certain new and useful Improvements in a Sulky-Plow; and I do hereby declare the following to be a full, clear, and exact description of the invention, that will enable others skilled in the art to which it appertains to construct and make use of the same, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to improvements in sulky-plows; and it consists in certain novel features, as will be hereinafter more fully set forth and explained in detail.

Figure 1 is a view looking from above; Fig. 2, a side elevation, partially in section, in the plane *x x*, Fig. 1; Figs. 3 and 4, sectional details.

On referring to the drawings, A represents the plow and plow-beam; *a*, the wheels. B is an arched frame raised above the horizontal line of the axles, and is supported at the ends by the upright posts *a'*, the lower ends of which are connected to the axles of the sulky.

C represents a seat placed upon the arched frame B for the accommodation of the operator. The frame-work D connects and supports the several working parts. Connected to the rear end of the plow-beam is the rod 5, which is bent to conform to the shape of the beam at this point and is attached rigidly to the plow-beam by means of the clamps 6 and 7. The outer end of this rod 5 is bent at right angles to the plow, and forms a stationary bearing-pin upon which the box 8 is made to oscillate, thereby forming the rear connection of the plow proper with the operating parts. The rear end of the crooked lever 9 has a bearing in box 8, and is attached to the projecting end of rod 5. The box 10, forming a central rest or bearing for lever 9, is attached to the rear part of the frame-work D, and has a rocking or oscillating action thereon. The lever 9 has the pivoted joint 11 located between the boxes 8 and 10, and adapts the plow to have a slight vertical action when clearing a stone or other obstruction, independently of the front end of the lever. The front end of the lever 9 is pivoted to the oscillating box 12, which, in turn, is connected to the rear projection of the rock-shaft 13. To one end of rock-shaft 13, and placed at the right hand of the operator, is attached the operating-lever 14, by means of which the workings of the plow are controlled and regulated, the opposite end of the rock-shaft resting in box 15.

The lever fulcrum-block 16 is attached to the front projection of rock-shaft 13, and by means of the arms 17 and 18 has a pivotal connection with the clamp 19, which is rigidly attached to the plow-beam at a point near the front end.

By means of the operating-lever 14, attached to the angular rock-shaft 13, the point of the plow may be elevated or depressed as required, and all the intermediate connecting and operating parts adjusted to their proper position relative to each other by the same movement.

The lever 20, placed at the left hand of the operator, is for the purpose of bringing the plow to the proper level. The lower end of this hand-lever is connected to the vertical moving part 21 in the manner shown in Fig. 3 of the drawings, which has a dovetailed bearing in one of the upright posts *a'*, supporting the arch B, as shown in Fig. 4 of the drawings, which is a transverse section in the plane *y y*, Fig. 3. The lower part of the vertical sliding piece 21 has the box attachment 22 with the main frame D.

The weight of the operator and the sulky attachment does not rest upon the plow, nor have any effect to prevent the efficient working of the operating parts.

The parts embodied in this improvement are so constructed and arranged as to readily and conveniently admit of the ordinary plow being connected to and operated by the sulky attachment.

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

1. In a sulky-plow, the combination, with the plow and beam A, of the clamping-rod 5, the clamps 6 and 7, the oscillating box 8, and the jointed lever 9, substantially as and for the purpose described.

2. In a sulky-plow, the combination, with

the plow A, of the rod 5, the oscillating box 8, the lever 9, provided with the pivoted joint 11, the box 10, attached to the frame D, the oscillating box 12, and the angular rock-shaft 13, substantially as herein shown and described.

3. In a sulky-plow, the combination of the following elements, consisting of the plow proper and the beam A, the clamping-rod 5, the clamps 6 and 7, the oscillating box 8, the jointed lever 9, the boxes 10 and 12, the angular rock-shaft 13, the fulcrum-block 16, the clamp 17, and the operating-lever 14, all constructed and arranged as herein shown and described.

JOHN H. BROWN.

Witnesses:
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