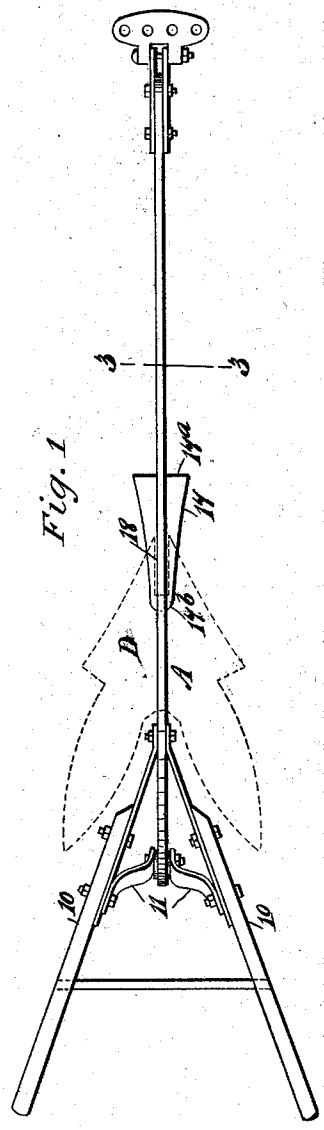
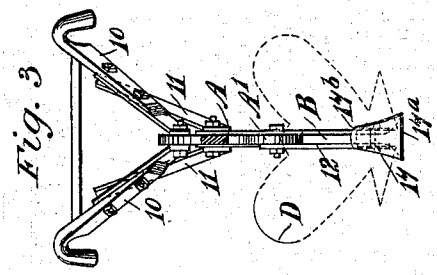
(No Model.)

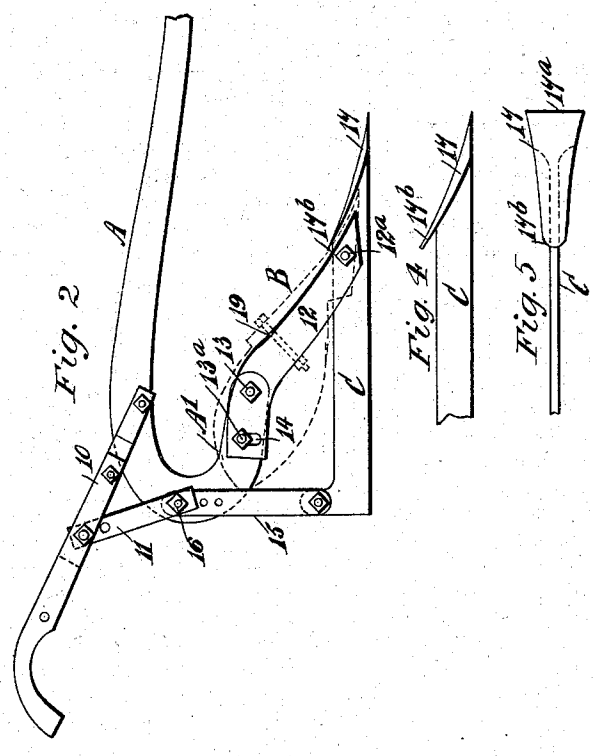
H. SYMMANK & E. MATTHIJEZ.

PLOW.

No. 559,229. Patented Apr. 28, 1896.







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UNITED STATES PATENT OFFICE.

HERMAN SYMMANK AND ERNST MATTHIJEZ, OF GIDDINGS, TEXAS.

PLOW.

SPECIFICATION forming part of Letters Patent No. 559,229, dated April 28, 1896.

Application filed December 26, 1895. Serial No. 573,295. (No model.)

To all whom it may concern:

Be it known that we, HERMAN SYMMANK and ERNST MATTHIJEZ, of Giddings, in the county of Lee and State of Texas, have invented a new and Improved Plow, of which the following is a full, clear, and exact description.

Our invention relates to an improvement in plows, and especially to an improved sweep-stock.

The object of the invention is to so improve upon the construction of the plow for which Letters Patent were granted to us October 21, 1893, No. 507,854, that the said stock may be used in connection with any form of share needed for working a crop—for example, a sweep, a single plow, a double plow for bursting middles, a shovel, or a like implement; and a further object of the invention is to provide a sweep-stock with a point which will be integral with its shoe or foot-bar, and which will assist in holding the share in position.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the acompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of the improved sweep-stock. Fig. 2 is a side elevation of the same. Fig. 3 is a front elevation of the sweep-stock, the beam being sectioned on the line 3 3 of Fig. 1. Fig. 4 is a side elevation of a portion of the foot-bar or shoe and the point carried thereby, and Fig. 5 is a plan view of the point and a portion of the foot-bar or shoe.

In carrying out the invention the plow-beam A is made of steel or of metal of any suitable description and is provided at its rear end with a downwardly and forwardly curved heel A′, the extremity of the heel being immediately beneath the body of the beam and is substantially parallel therewith. Handles 10 are secured to the body of the beam in any approved manner, and these handles are supported by adjustable braces 11.

The sweep-holder B is connected with the heel of the beam, and the said sweep-holder consists of two parallel plates having their upper ends curved to extend one at each side of the forward extremity of the heel of the beam, and the plates are pivoted on the said heel by means of a bolt 13, and a second bolt 13^a at the rear of the pivot-bolt is passed through both of the plates and the heel of the beam, the plates being provided with elongated slots 14 to receive the bolt. Both bolts have suitable nuts, and the rear bolt is adapted for adjusting and holding and maintaining the lower end of the sweep-holder a predetermined distance from the ground, the said sweep-holder extending downwardly and in a forwardly direction. The lower end of the sweep-holder is connected by a bolt 12^a with the forward portion of the foot-bar or shoe C, the plates 12 of the sweep-holder being at each side of the said bar, and the rear or heel portion of the bar C is adjustably connected by a link 15 with the heel portion of the shank A at the rear of its attachment to the sweep-holder; and usually the same bolt 16 is employed to connect the links and the braces 11 of the handles of the beam.

A point 17 is formed at the forward end of the foot-bar or shoe, and the said point is inclined from the top downward to the ground, while usually its upper face is somewhat convexed. The point is widened out in direction of the bottom, whereby its bottom edge 17^a is very much wider than its upper edge, and this bottom edge is flattened and sharpened, so that it will readily enter the ground. The upper end 17^b of the point extends some distance above the top of the foot-bar or shoe, as shown in Fig. 4, and, as illustrated in dotted lines in Fig. 5, the sides of the point project beyond the sides of the shoe or foot-bar.

In the drawings we have illustrated a double share D, used in connection with the point and sweep, and this form, or any other form of share that may be used, is provided with a slot 18 at its lower edge, in order that this portion of the share may be carried downward over the foot-bar or shoe in a manner to enable the lower side portions of the share adjacent to the slot to engage with the under surface of the projecting sides of the shoe.

The upper portion of the share is held upon the sweep-holder usually by passing a single bolt 19 through the share and between the plates of the said sweep-holder, as shown in

Fig. 2, the bolt having suitable nuts at both ends or a nut at one end only, the other end being formed into a head.

The improved sweep-stock, it will be observed, is, as heretofore stated, adapted for use in connection with any form of share and will serve to decrease the number of implements ordinarily considered necessary for properly working a farm.

The point may be adjusted to enter the ground to a greater or less a depth by adjusting the sweep-holder in the manner heretofore described.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. A sweep-stock the foot-bar or shoe of which is provided with an integral point having forwardly-diverging lateral edges, as and for the purpose specified.

2. A sweep-stock the foot-bar or shoe of which is provided with a point integral with its forward end, which point has an inclination downwardly and forwardly and is of substantially wedge shape, its lower end being its widest portion and the said end being sharpened, as and for the purpose specified.

3. The combination, with a foot-bar or shoe of a sweep-stock, of a point integral with the forward end of the said foot-bar or shoe, the said point being widest at its lower end and sharpened at the said end, the sides of the point extending beyond the sides of the foot-bar or shoe, as and for the purpose specified.

4. An improved sweep-stock, the same comprising a beam having a forwardly-projecting heel extending beneath the beam, a sweep-holder adjustably connected with the heel of the beam, a foot-bar or shoe adjustably connected with the said sweep-holder and with the beam, and a point integral with the forward end of the foot-bar, being located in advance of its connection with the sweep-holder, the said point being widest at its forward and lower edge, and the sides of the point being extended beyond the sides of the said foot-bar or shoe, as and for the purpose specified.

5. In a sweep-stock, the combination, with the beam, a sweep-holder adjustably connected with the beam, and a foot-bar or shoe adjustably connected with the beam, of a point located at the forward end of the foot-bar or shoe, having a downward and forward sweep and being widest at its lower end, its sides projecting beyond the sides of the foot-bar, and a share provided with an opening at its lower edge whereby said share may straddle the foot-bar between the sweep-holder and point, engaging with the extending sides of the latter, and a fastening device, substantially as described, for securing the share to the sweep-holder, as set forth.

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