(No Model.)

H. SYMMANK & E. MATTHIJEZ.

PLOW.

No. 507,854. Patented Oct. 31, 1893.

Fig: 3.

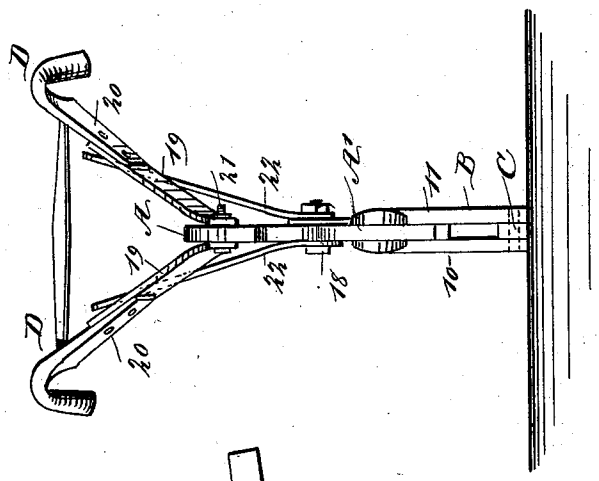


Fig: 1.

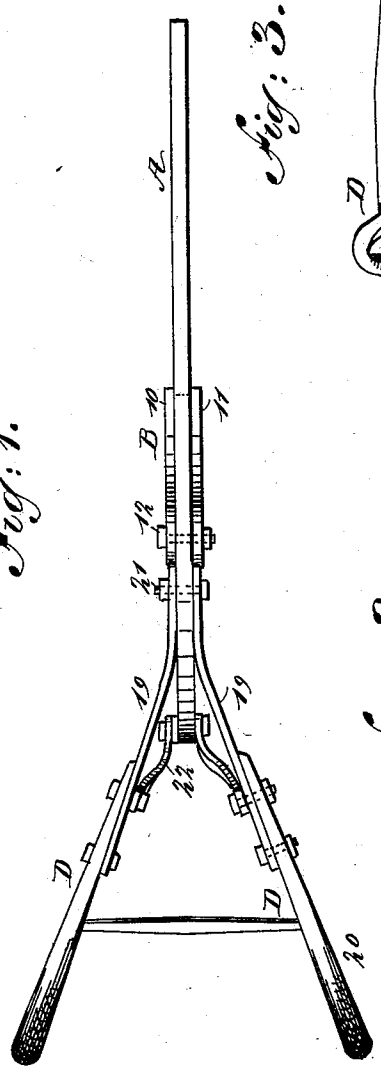
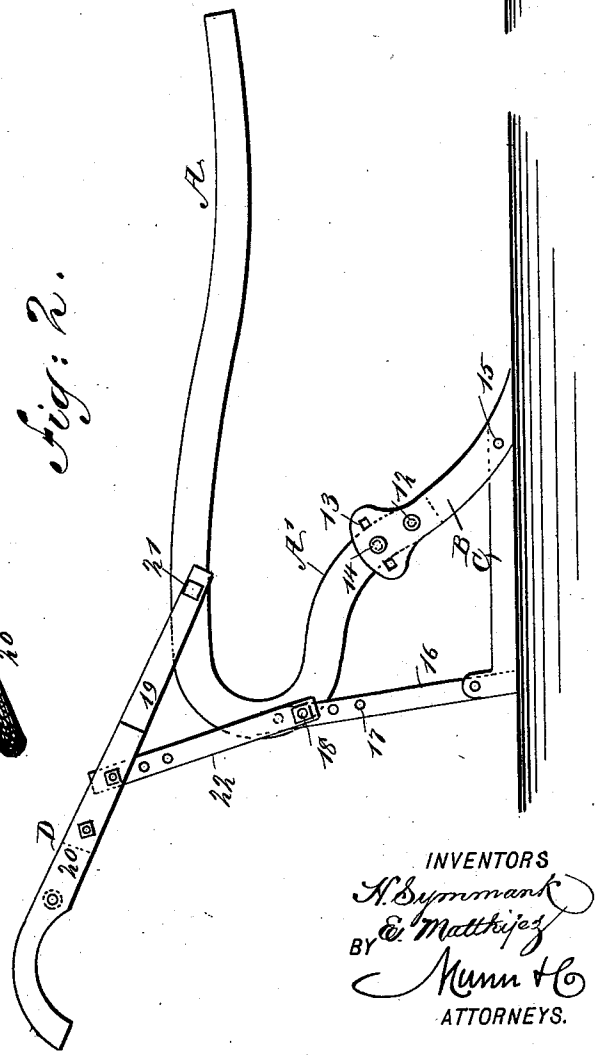


Fig: 2.



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HERMAN SYMMANK AND ERNST MATTHIJEZ, OF GIDDINGS, TEXAS.

PLOW.

SPECIFICATION forming part of Letters Patent No. 507,854, dated October 31, 1893.

Application filed August 12, 1893. Serial No. 482,967. (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, especially to an improved sweep stock, and the object of the invention is to provide a strong, durable and adjustable implement for holding sweeps, half shovels, bull tongues, &c., all of which are needed in the proper cultivation of corn, cotton and the like; and a further object of the invention is to so construct a sweep stock as to prevent it from choking by weeds.

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 accompanying drawings forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a plan view of the implement. Fig. 2 is a side elevation thereof; and Fig. 3 is a front elevation of the same.

The beam A is made of steel, or of metal of any description, and is of peculiar shape, the body of the beam being shaped on the lines of a compound curve, while the heel of the beam is forwardly curved beneath the body, and is then carried downward more or less in a rearwardly direction, forming a curved arm A′, being essentially a continuation of the heel of the plow beam.

The holder B, to which the sweep proper is to be attached, is connected with the heel extension A′ of the beam, and the said holder comprises two parallel members 10 and 11, one of which engages with each side of the heel extension of the beam, and the holder is given a gradual curve in a downwardly and forwardly direction, its lower end being straight. The two members of the holder are pivotally connected with the heel extension of the beam by passing a pivot bolt 12 through its members and through the extension, while above the pivot 12 a series of preferably three apertures 13, is produced in both of the members, and a bolt 14 is to be passed through any two aligning apertures in the holder, and through a corresponding aperture in the beam extension, since the lower end of the beam extension is provided with two apertures, one to receive the bolt 12 and the other the bolt 14. The apertures of the series 13 are square upon one side to prevent an inserted bolt from turning. The bolt 12, as heretofore stated, serves as a pivot, and the other bolt 14, may be passed through any of the three holes, whereby the latter may be given a more or less inclined position, and cause the sweep not only to enter the ground more or less deeply, but also to throw more or less dirt toward the plant.

A bar or shoe C, is secured between the members of the holder at its lower end by means of a bolt 15, pin or like device. The said bar or shoe is straight except at its rear end, which is upwardly curved, and the curved end of the bar or shoe is pivotally connected with a link 16, the link at its upper end being adjustably connected with the heel of the beam, as the upper end of the link is provided with a series of apertures 17, and a pivot bolt 18, is passed through one of the apertures and through the beam. If the pivot bolt 18, is placed in the lowermost hole in the link the bar or shoe is raised from the ground at its heel, and the plow connected with the holder will cut deep; if the bolt 18, is placed in the upper hole of the link the heel of the bar is depressed, and the plow will enter the ground for a less depth.

The handles D are preferably made in two sections, namely, a forward metal section 19, and wooden handle bars 20, the wooden handles being secured to the metal sections or bars 19 by bolts, rivets, or equivalent fastening devices. The metal bars or sections of the handles are preferably made thinner at their forward than at their rear ends, and are pivotally secured at their forward extremities to the beam by means of a bolt 21, or like device. The handles are made adjustable to suit the height of the operator by connecting the handles with the heel of the plow beam by braces 22, and the braces are apertured at their upper ends to permit the handles to be raised or lowered as occasion may demand.

A plow of the above construction offers no

obstruction whatever to the free passage of the weeds and other trash, and it will consequently never become choked. This feature to a great extent is owing to the peculiar shape of the implement, and the fact that no angles are formed against which the weeds may lodge. The plow is furthermore exceedingly economic, durable and simple in its construction.

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

1. An improved sweepstock, comprising a beam having a forwardly and downwardly projecting curved heel, a sweep holder on the lower end thereof, a rearward extension or shoe pivoted at its front end to the sweep holder, and a link arm pivotally connected with the rear end of the shoe, and means for adjustably connecting the upper end of the said link with the heel portion of the beam, all arranged substantially as shown and for the purposes described.

2. In a sweep stock, a beam having its body shaped upon the lines of a compound curve and its heel forwardly and downwardly curved beneath the body, and a sweep holder comprising two members curved in a forward direction, both members being pivotally connected with the lower portion of the beam extension, the members being provided with apertures above their pivot points, and a locking bolt adapted to pass through aligning apertures in the members of the holder and through a registering aperture in the extension of the frame, as and for the purpose specified.

3. In a sweep stock, the combination, with a beam provided with a forwardly and downwardly projecting heel extension, and a sweep holder adjustably connected with the extension of the beam, of a shoe located at an angle to the holder, extending rearwardly therefrom and pivoted thereto, a link adjustably connecting the heel of the shoe with the heel of the beam, handles pivotally connected with the beam, and braces adjustably connected with the handles, whereby the latter may be raised and lowered, substantially as and for the purpose specified.

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