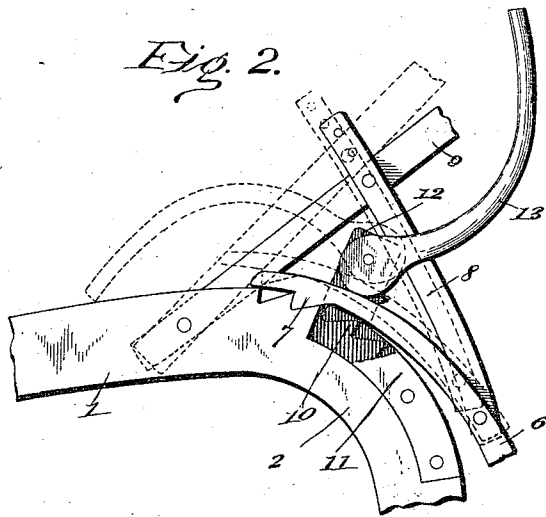
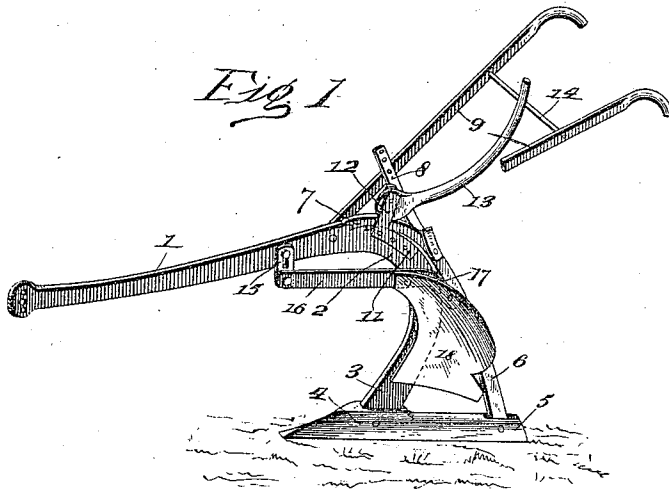


(No Model.)

J. W. GOODALL.
PLOW.

No. 558,275.

Patented Apr. 14, 1896.



WITNESSES:

Theo. L. Gatche.
M. Larman.

INVENTOR

John W. Goodall.
BY
Fredrick Benjamin.
ATTORNEY.

UNITED STATES PATENT OFFICE.

JOHN W. GOODALL, OF HAYS CITY, KANSAS.

PLOW.

SPECIFICATION forming part of Letters Patent No. 558,275, dated April 14, 1896.

Application filed January 16, 1896. Serial No. 575,774. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. GOODALL, a citizen of the United States, residing at Hays City, in the county of Ellis and State of Kansas, have invented certain new and useful Improvements in Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in that class of plows known as "subsoil-plows," though, as will readily appear, its main features may be applied to plows of ordinary construction without material changes in the construction of said improvements.

The objects of my invention are to provide for the raising and lowering of the subsoil-plow point, so that it may run shallow or deep, as required, without stopping the plow or causing the plowman to leave his place between the handles; to provide for immediate adjustment, and to have all the parts of the implement strong in construction and simple in operation. The manner in which I accomplish these objects is set forth in detail in the following specification, and illustrated in the accompanying drawings, which form a part of my application.

Reference being had to said drawings, it will be seen that Figure 1 is a perspective view of a subsoil-plow with my improvements applied thereto. Fig. 2 is an enlarged view showing in detail a section of the plow with the adjusting-lever.

Like reference-numerals indicate like parts in the several views.

In the drawings, 1 indicates a metal plow-beam having the usual clevis arrangement at its forward end and having its rearward portion rounded, as at 2, at the point of connection with the standard 3, which is formed integrally with the beam. To the lower end of the standard 3 is pivoted the subsoil-share 4, which is formed with a rearwardly-extending shoe 5. Pivoted to the rear end of the shoe 5 is a brace 6, which extends or is curved forwardly and upwardly over the rounded portion 2 of the beam and terminates in the notched portion 7. Bolted on either side of the brace 6 are auxiliary braces 8, which extend upwardly to the handles 9, to which they

are secured by bolts passing through holes in said braces and in the handles. Several holes are provided in the upper end of these braces to permit of different adjustments.

The rounded portion 2 of the beam is provided with a series of notches 10, which are engaged by the notched end 7 of the brace 6, and on either side of said rounded portion are bolted plates 11, which have an upward extension 12 at an angle with said plates. Between said plates 11 and at the upper end of the extensions 12 is pivoted the cam-lever 13, the handle of which is curved downwardly and adapted to move between the beam 1 and the cross piece or brace 14 of the handles 9.

It will be seen that when the notched end 7 of the brace 6 is in engagement with one of the notches on the curved portion 2 of the beam and the handle of the cam-lever is thrown back against the brace 14 the brace 6 will be held in position, as shown in Fig. 2. When it is desired to adjust the plow-point up or down, the handle of the cam-lever is thrown forward and down on the beam, thus releasing the cam-head from contact with the brace 6, so that the notched portion of the brace may be disengaged from the notches on the beam and the brace moved freely up or down until the point of the plow has received the desired adjustment.

For some purposes it may be desirable to have an auxiliary plow secured to the beam to use in connection with the subsoil-plow on the surface soil. Pivoted to the beam 1 is a vertical slotted hanger 15, to the lower end of which is bolted a horizontal bar 16, which extends rearwardly, is pivoted to the curved portion 2 of the beam 1, and has a downward extension 17. Bolted to the bar 16 and to its extension 17 is a plowshare 18, the point of which is raised or lowered by adjusting the slotted hanger 15.

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

1. In a plow the combination of a beam having a curved portion 2 provided with notches, of a share pivoted to the lower end of said beam, of a brace pivoted to said share and having its upper end adapted to engage the notches on the beam, in the manner and for the purposes set forth.

2. In a plow the combination with a beam provided with notches on its upper edge, of a share pivoted to the lower end of said beam, of a brace pivoted to the rearward portion of the share and having its upper end adapted to engage the notches in the beam, and a cam-lever pivoted above said brace, substantially as described.

3. In a plow the combination with a beam having notches in a portion of its upper edge, of a share pivoted to the lower end of said beam, of a brace pivoted to the rearward portion of the share and having its upper end adapted to engage the notches in the beam, of a pair of adjustable auxiliary braces between said brace and the plow-handles and a cam-lever pivoted above said brace and engaging the back thereof, in the manner described.

4. In a plow the combination of a beam having notches in a portion of its upper edge, of a share pivoted to the lower end of said beam, of a brace pivoted to the rearward portion of the share and having its upper end adapted to engage the notches in the beam, a cam-lever pivoted above the brace and to normally be in contact therewith, and an auxiliary plowshare hung above the main share from a hanger adjustably secured to the beam in the manner and for the purposes shown.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JOHN W. GOODALL.

Witnesses:

ALOIS BISSING,
JOHN SCHUELER.