

(No Model.)

A. SCHOENFELDER.
MIDDLE BREAKER.

No. 455,413.

Patented July 7, 1891.

Fig. 1.

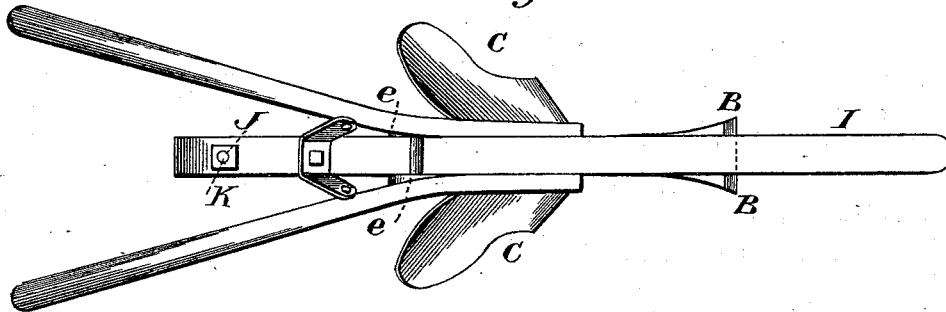


Fig. 2.

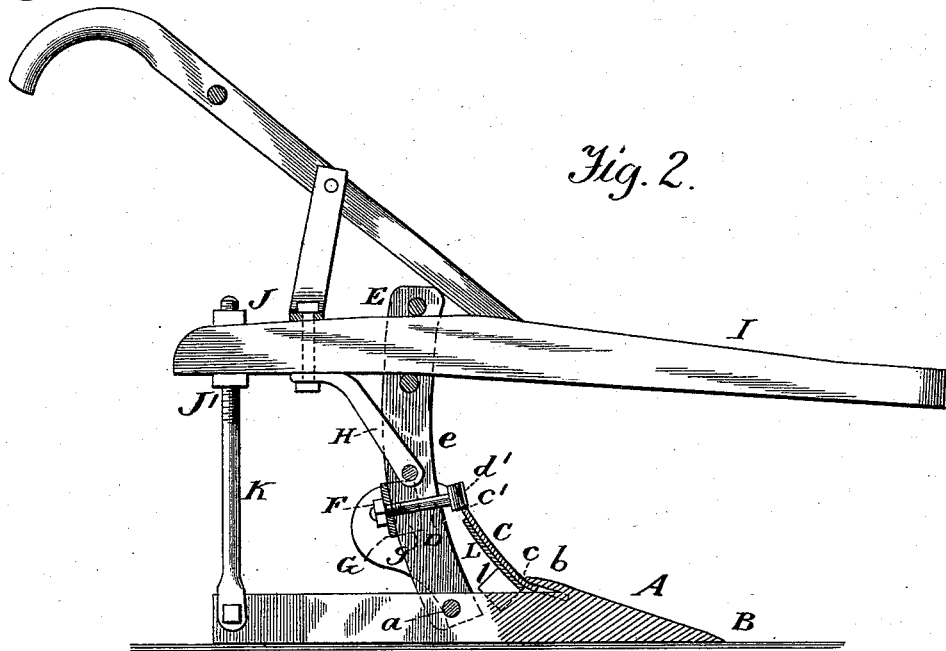
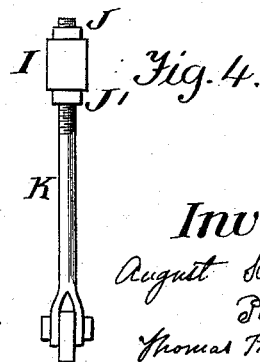
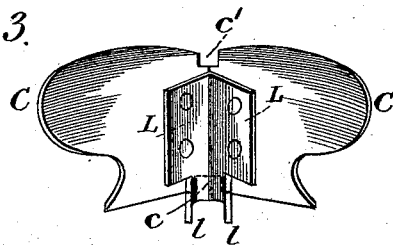


Fig. 3.



Witnesses.
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UNITED STATES PATENT OFFICE.

AUGUST SCHOENFELDER, OF BURTON, TEXAS.

MIDDLE BREAKER.

SPECIFICATION forming part of Letters Patent No. 455,413, dated July 7, 1891.

Application filed April 29, 1890. Renewed June 10, 1891. Serial No. 394,643. (No model.)

To all whom it may concern:

Be it known that I, AUGUST SCHOENFELDER, a citizen of the United States, residing at Burton, in the county of Washington and State of Texas, have invented certain new and useful Improvements in Middle Breakers; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The special object of the invention is to combine a middle-breaker plow with a sweep-stock so that it may be made to run at different depths without adjusting the beam-clevis, as hereinafter described.

Figure 1 of the drawings is a plan view; Fig. 2, a longitudinal vertical section; Fig. 3, a detail rear view of the mold-board, and Fig. 4 a detail rear view in elevation of the joint between the bolt and shoe.

In the drawings, A represents the sole or shoe, provided at its front end with the middle breaker B, which is a flat share with a broad sharp edge at right angles to the longitudinal plane of the plow and sloping upward on top, thus forming a half-wedge, resting on its straight edge. The rear end of its top projects over the top of shoe, so as to form the broad lip *b*, under which fits the medium front of the double mold-board C, which has a front notch *c* to straddle the top edge of shoe A. On the convexity or dividing line of the mold-board is also made the upper notch *c'*, across which fits the head *d'* of a bolt D, whose shank passes between the parallel plates *e e* of the standard E and is held by an end nut F, which

bears upon a plate G, whose edges *g g* embrace the plates *e e*, being turned over their outsides.

H is a brace, which, together with the standard E, is bolted to the plow-beam I.

The shoe A turns on the pivot *a* between the standard-plates *e e* and is held by the bolt K, which is bifurcated at its lower end to straddle the rear end of the shoe and be pivoted thereto. The upper end of bolt K passes up through the rear end of the beam I and is held on both sides of the beam by the nuts J J'. By adjusting this bolt more or less through the beam the middle breaker B may be made to run more or less deep.

A sweep may be used by being fastened to the foot of the middle breaker.

Having thus described all that is necessary to a full understanding of my invention, what I claim as new, and desire to protect by Letters Patent, is—

1. The shoe A, having the share B with a broad front at right angles to said shoe and extending out beyond it on both sides to cut the bottom of the furrow-slice before it is turned over and to enable it to be more completely turned by the mold-board.

2. The combination of the shoe and share A B with the double mold-board fitting in front under the shoe-lip *b* and with the notch *c*, fitted on the bolt D, and the angle-piece L, having the front semi-tube *l*, substantially as shown and described.

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

AUGUST SCHOENFELDER.

Witnesses:

S. SEELIG,

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