W. L. MATHEWS
Plow.

No. 198,773. Patented Jan. 1, 1878.

Fig. 1

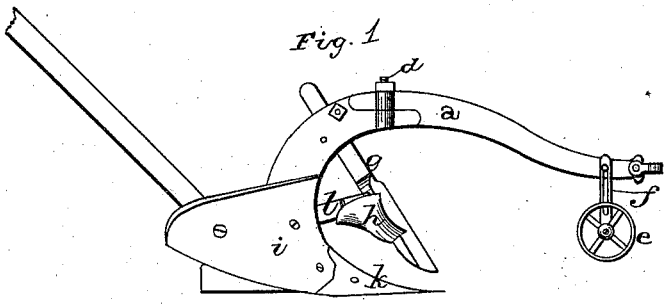


Fig. 2.

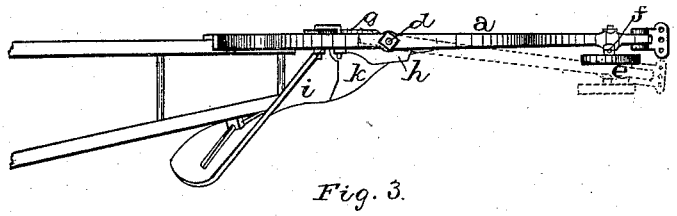


Fig. 3.

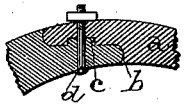
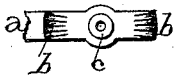


Fig. 4.



WITNESSES.

J. Wm. Garner
Will. H. Kerr

INVENTOR.
Wm. L. Mathews
per
F. A. Lehmann,
Atty.

UNITED STATES PATENT OFFICE.

WILLIAM L. MATHEWS, OF IMLAY CITY, MICHIGAN.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **198,773**, dated January 1, 1878; application filed September 11, 1877.

To all whom it may concern:

Be it known that I, WILLIAM L. MATHEWS, of Imlay City, in the county of Lapeer and State of Michigan, 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 pertains to make and use it, reference being had to the accompanying drawing, which forms part of this specification.

My invention relates to an improvement in plows; and it consists in an adjustable divided beam, whereby one, two, or three horses may be employed at will, and in the peculiar construction and arrangement of parts, whereby a simple, light-draft, and effective plow is produced, as will be more fully described hereinafter.

a represents a beam, divided in or near the middle, the two pieces of which are joined, as shown. The forward end of the rear half of the beam has a portion of it cut away, the rear end of the forward half being of a corresponding shape, so as to form a perfect joint when combined.

The two sides of the joint which come in contact with each other are provided with notches *b*, by means of which the forward half of the beam can be adjusted to any desired angle, so that one, two, or three horses may be used, as required.

In order to securely fasten the two pieces of the beam together, the upper surface of the lower half of the joint is provided with a circular flange, *c*, which fits into a corresponding indentation in the other half of the joint, by means of which the two pieces are securely pivoted, all strain being removed from the bolt *d*, which is employed to hold them together.

To the outer end of the beam *a* is secured a wheel, *e*, by means of the slotted standard *f*, the inner side of which standard is curved, so that the wheel may always be placed in line when the beam is adjusted at an angle.

At a suitable distance in front of the mold-board is placed a colter, *g*, which is secured to the beam by means of a suitable clamping device, and braced in position by means of the rod or bar *l*, the rear end of which bar is pivoted to the standard. Its front end is forked, so as to hold the colter, to which it is secured by means of a screw.

By this arrangement the colter can be adjusted either up or down, so as to cut a subsoil furrow on the corner of furrow cut by the plow.

The lower end of the colter is formed into a sharp blade, some distance from the cutting-edge of which is secured the jointer or mold-board *h*, which is made so as to conform as nearly as possible to the shape of the mold-board *i*.

To the front side of the standard is secured the mold-board *i*, the outer edge of which entirely covers the front side of the standard, so as to prevent the latter from being worn, and which has its lower edge curved spirally upward and backward. The upper edge of this mold-board projects backwardly and outwardly over the lower edge. The board itself, between these two edges, is curved, as shown, and its rear end is curved backward to a considerable distance, with the lower edge much farther back than the upper one.

To the lower end of the standard is attached the share *k*, which extends outward to a considerable distance, so as to form a long, sharp point.

A plow thus constructed can be adjusted for one, two, or three horses without having to use a two or three horse clevis.

Having thus described my invention, I claim—

1. A sectional adjustable beam, *a*, having its joint provided with notches *b* and a circular flange, *c*, whereby it can be adjusted for one, two, or three horses, substantially as shown.

2. In combination with the beam *a*, made in two parts, and provided with the notches *b* and flange *c*, the colter *g*, jointer *h*, and brace *l*, the colter being fastened to the beam at a point to the rear of the joint, whereby the beam can be adjusted without interfering with the position of the colter, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 27th day of August, A. D. 1877.

WM. L. MATHEWS.

Witnesses:
H. A. QUACKENBUSH,
A. F. MARTIN.