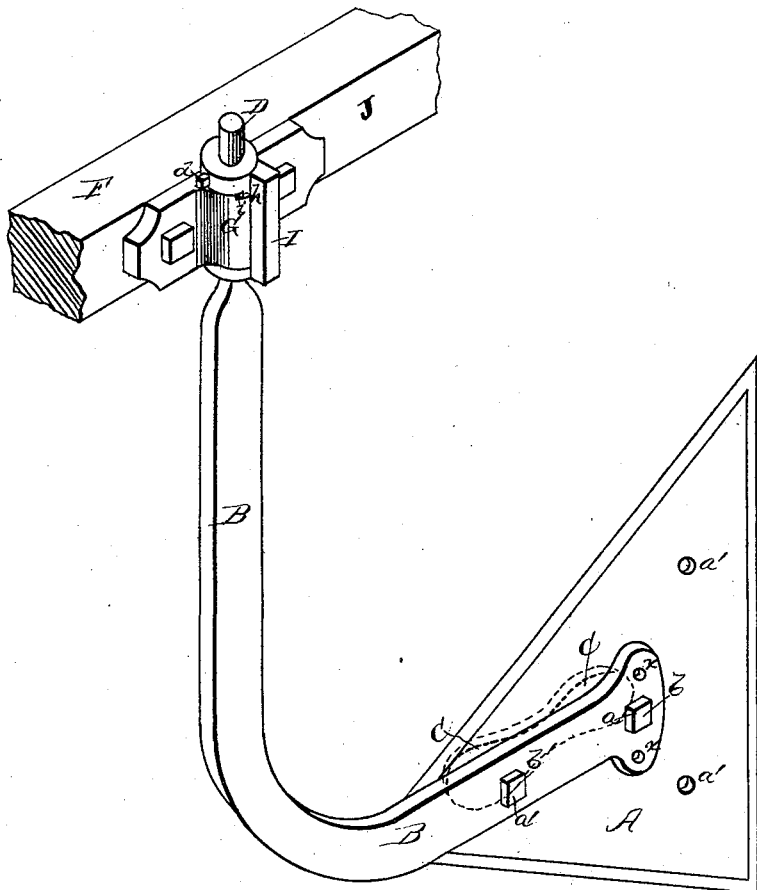


A. ALDRICH.
Cutter for Plows.

No. 212,419.

Patented Feb. 18, 1879.



Witnesses:
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UNITED STATES PATENT OFFICE.

ASAHIEL ALDRICH, OF MARION, IOWA.

IMPROVEMENT IN CUTTERS FOR PLOWS.

Specification forming part of Letters Patent No. **212,419**, dated February 18, 1879; application filed December 31, 1878.

To all whom it may concern:

Be it known that I, ASAHIEL ALDRICH, of Marion, in the county of Linn and State of Iowa, have invented certain new and useful Improvements in Cutters for Plows; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The nature of my invention consists, essentially, in the peculiar construction of the box and yoke through which the upper end of the standard passes, whereby the colter accommodates itself to the movements of the plow; also, in the combination of certain other features, the peculiarities of which will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which the figure is a perspective view of my cutter.

A represents the plow-colter, which is made in the form of a triangle, having equal sides, as shown, and forming three sharp or cutting edges, so that when one edge is worn another edge can be turned in proper direction for work. In the center of the colter is a hole, *a*, and equidistant from the same, in a straight line with each angle or corner of the colter, is a hole, *a'*, as shown. B is the sheath or standard of the colter, made in L shape, and to the lower and rear end of which the colter A is secured by means of two bolts or screws, *b b'*, which pass respectively through the center hole, *a*, and one of the holes *a'*, and there screw into a bar, C, (shown in dotted lines,) placed against the other side of the colter, thus fastening the colter firmly to the standard.

It is necessary sometimes to change the angle at which the operating edge of the colter is to work; and to this end I provide the extreme rear end of the standard B with a series of holes, *x*, arranged on the arc of a circle, of which the hole for the bolt *b'* is the center. By this means the bolt *b* can be changed, so as throw the front edge of the colter to the angle best adapted for work.

The upper end of the standard B is formed into a round shank, D.

F is the plow-beam, to the side of which is secured a box, G, having a vertical hole through the center for the passage of the shank D. I is a yoke, which embraces the central part of the box G, and has corresponding holes in its ends for the passage of the shank D. This shank is secured by means of a set-screw, *d*, in the upper end of the yoke, and by loosening said set-screw the colter may be adjusted up and down, as required, and then fastened again by the set-screw.

On one end of the yoke I is made a lug or projection, *h*, which enters a recess, *i*, in the corresponding end of the box G. This recess is, however, larger than the lug *h*, which allows the colter a certain limited movement to either side, and admits of its accommodating itself to the movement of the plow.

This plow-colter is arranged under the beam in a slanting position, so that it draws after the plow, and will cut sod, straw, or corn-stalks, enabling the plow to turn them under and make smooth work, and not raise the plow from the ground.

It is evident that the colter A may be made with four sides equally as well as with three.

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

1. In a plow-colter attachment, the box G, with recess *i*, in combination with yoke I, with lug *h*, for the purpose of allowing the colter to accommodate its direction to the movements of the plow, substantially as set forth.

2. The combination of the standard B, with shank D, the box G, with recess *i*, yoke I, with lug *h*, and the set-screw *d*, substantially as and for the purposes herein set forth.

3. The standard B, having its upper end formed with a round shank, D, and its lower portion bent at right angles with the end, provided with an enlarged or expanded head, the same being provided with a series of holes arranged on the arc of a circle, in combination with the angular cutter A, box G, yoke I, and beam F, all as and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ASAHIEL ALDRICH.

Witnesses:

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