

A. ALDRICH.
Colter.

No. 216,128.

Patented June 3, 1879.

Fig. 1.

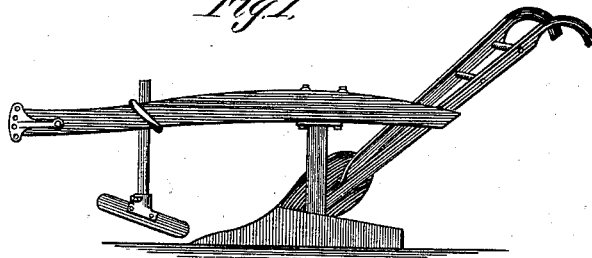
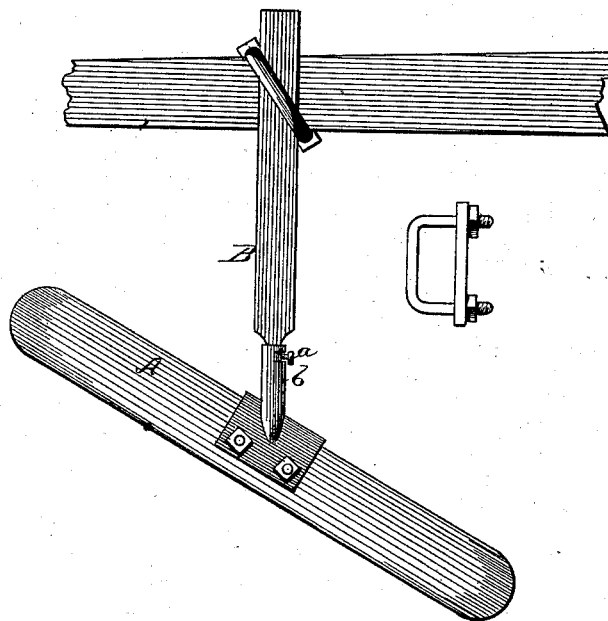


Fig. 2.



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UNITED STATES PATENT OFFICE.

ASAHEL ALDRICH, OF MARION, IOWA.

IMPROVEMENT IN COLTERS.

Specification forming part of Letters Patent No. **216,128**, dated June 3, 1879; application filed April 17, 1879.

To all whom it may concern:

Be it known that I, ASAHEL ALDRICH, of Marion, in the county of Lynn and State of Iowa, have invented certain new and useful Improvements in Plow-Colters; 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, in which—

Figure 1 is a side view of a plow with my colter attached, and Fig. 2 an enlarged view of the colter.

The object of my invention is simply to supply a need long felt with regard to the efficient working of a plow-colter.

I have ascertained by a long practical experience with colters of various constructions that, in order not only to thoroughly cut the sod, but also sever the straw or stubble, it is essential to employ a knife of greater or longer cutting-surface than has usually been adopted, and also that it is important to have an adjustment which will enable the colter to not only conform to the movement of the plow, but one that will also admit of the knife being set at different angles, depending upon the character of work to be done; and to that end the nature of my invention consists in the employment of a colter having parallel cutting-edges and rounded ends, forming a continuous cutting-edge, and capable of being reversed at will, as will be hereinafter more fully set forth.

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.

A represents the colter, formed of an elongated piece of steel, having parallel sides and rounded ends, forming a continuous cutting-edge. *b* is a coupling, composed of a hollow tube, having a plate at its lower end, which is bolted to the colter through two holes in the center of the blade. B is the standard, formed with a small shank at its lower end, which enters the hollow coupling *b*, and is secured by a set-screw, *a*, passing through a lateral slot in the coupling.

The standard may be secured to the plow-beam by any of the ordinary and usual ways.

In operation, the great length of the cutting-edge enables it to cut not only the sod, but the straw or stubble; and as one edge becomes worn the cutting-blade may be turned end for end or side for side whenever it is desired.

The lateral slot in the coupling *b* gives the colter a slight play, to correspond with the movement of the plow.

I am aware of the existence of an oval-shaped colter having a continuous cutting-edge, which is removably, but rigidly, attached to the standard.

I do not desire to be understood as claiming such an invention, as this construction and arrangement defeat, in a measure, the object I seek to attain; nor do I claim the method of adjustment apart from the special construction of the colter.

I deem it very necessary that my colter should be constructed as herein shown—*i. e.*, with straight parallel cutting-edges—and so attached to the standard as to admit of it vibrating enough to adapt itself to the movements of the plow.

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

1. The colter A, consisting of an elongated piece of steel, its sides being parallel and its ends rounded, with an endless cutting-edge, and reversible end for end and side for side, substantially as and for the purpose herein shown.

2. The combination of the colter A, provided with coupling *b*, having a lateral slot therein, with standard B and thumb-screw *a*, all constructed and arranged to operate substantially as described.

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

ASAHEL ALDRICH.

Witnesses:

T. H. ALEXANDER,
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