

(No Model.)

G. STEVENS.

PLOW COLTER.

No. 343,503.

Patented June 8, 1886.

Fig 1

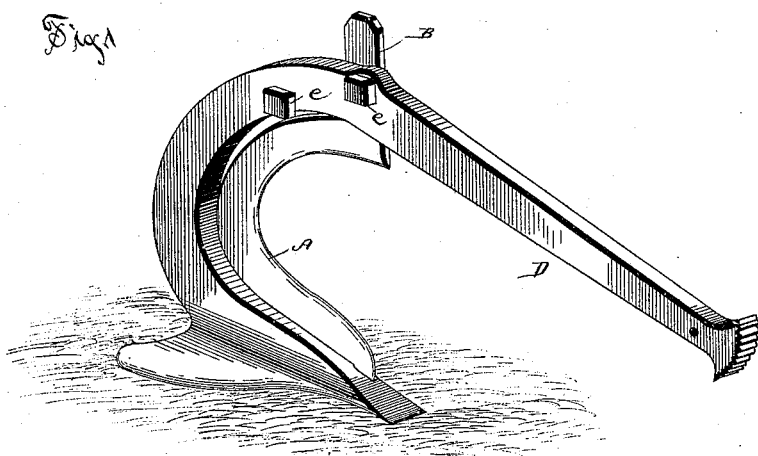


Fig 2

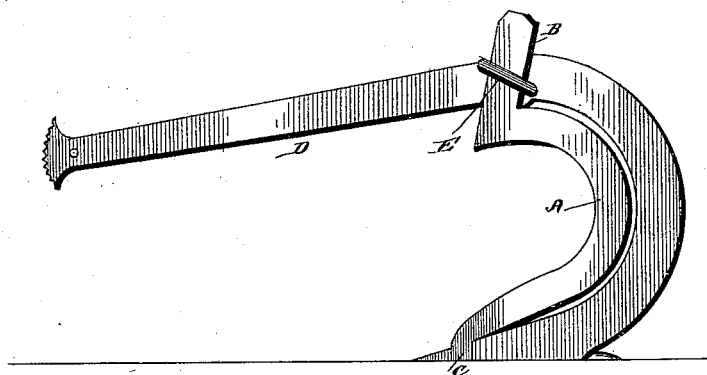


Fig 3

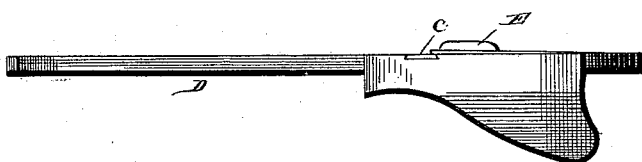
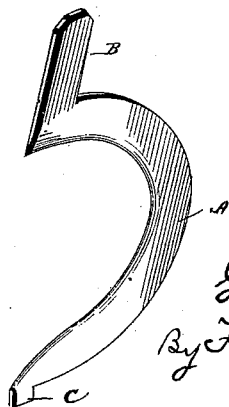


Fig 4



WITNESSES

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# UNITED STATES PATENT OFFICE.

GEORGE STEVENS, OF VASSAR, MICHIGAN.

## PLOW-COLTER.

SPECIFICATION forming part of Letters Patent No. 343,503, dated June 8, 1886.

Application filed December 31, 1885. Serial No. 187,221. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE STEVENS, a citizen of the United States, residing at Vassar, in the county of Tuscola, State of Michigan, have  
5 invented certain new and useful Improvements in Plow-Colters, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in  
10 plow-colters, in which the colter is curved or sickle-shaped; and it has for its objects to provide a plow-colter that will easily sever fibrous roots in new ground, and also one that can exert much more resistance with less damage  
15 to itself and to the plow. These objects I attain by the means illustrated in the accompanying drawings, in which—

Figure 1 represents a perspective view of a road-plow with my improved colter attached;  
20 Fig. 2, a side view of the same, taken from the land side. Fig. 3 is a bottom plan view, and Fig. 4 a perspective view, of the colter detached.

Like letters refer to like parts throughout  
25 the several views.

The letter A indicates my improved colter or cutter, which is curved, and is provided with tongues B C, which extend out at top and bottom, thereby forming a colter which corresponds in shape to the ordinary hand-sickle.  
30 The tongue B is attached to the beam D of the plow by means of a staple, E, which has screw-threaded ends. Said ends pass through apertures in the beam D, and are secured by  
35 means of nuts *e e*, thereby causing the staple to draw and hold the tongue B of the colter against the side of the plow-beam. It is, however, obvious that the same result may be accomplished either by welding the ends of the

staple against the beam or by having slots made  
40 in said ends through which pins may pass. The tongue C is secured to the plow-share by means of a dovetail-piece, as shown in Fig. 3 of the drawings, thus preventing any lateral or side movement. By means of this peculiar  
45 construction less draft is required, as the colter or cutter has a different movement from the straight or knife colter—that is to say, when the colter is engaged with the furrow-slice, the portion nearest the tongue C first engages the  
50 soil, and while it cuts through the same it gives the furrow-slice a peculiar lift, thereby causing the soil to move upward and outward toward the outer end of the beam. This is of  
55 value, as it not only overcomes much of the resistance against the colter and plow-share, but also causes the soil to break up and deposit itself in advance of the lower soil in the trench left by the plow in its previous traverse.

This form of colter or cutter can be equally  
60 as well applied to any kind of plow.

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

A curved colter having tongue B and dove-  
65 tail-piece C, in combination with the share provided on its land side with a dovetail recess for the reception of the piece C, and means, substantially as described, for securing the  
70 tongue B to the beam, substantially as described, and for the purposes set forth.

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

GEORGE STEVENS.

Witnesses:

FRANK L. FALES,  
A. B. MARKHAM.