

(No Model.)

C. C. VINCENT.

PLOW COLTER.

No. 263,079.

Patented Aug. 22, 1882.

Fig. 1.

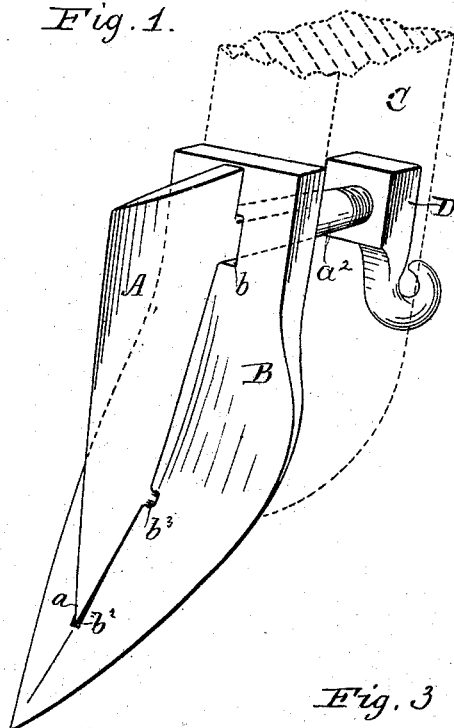


Fig. 2.

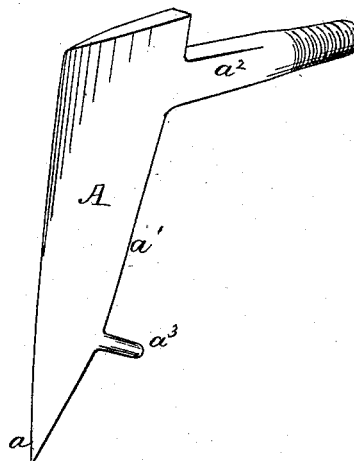
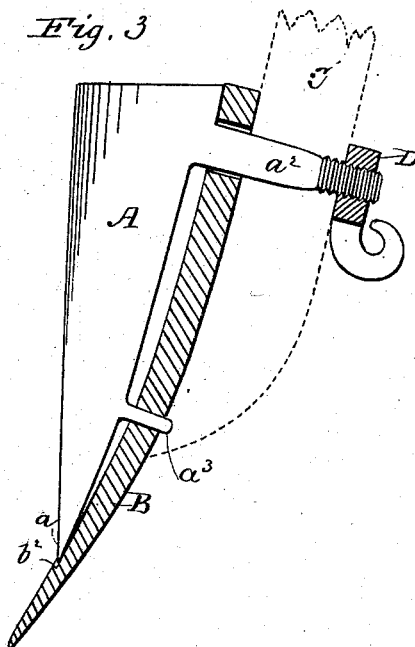


Fig. 3.



Witnesses:

W. B. Masson
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Inventor:

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by E. E. Masson
att'y.

UNITED STATES PATENT OFFICE.

COMER C. VINCENT, OF GREENSBOROUGH, ASSIGNOR OF ONE-HALF TO
JOHN BONES MOORE, OF AUGUSTA, GEORGIA.

PLOW-COLTER.

SPECIFICATION forming part of Letters Patent No. 263,079, dated August 22, 1882.

Application filed May 10, 1882. (No model.)

To all whom it may concern:

Be it known that I, COMER C. VINCENT, a citizen of the United States, residing at Greensborough, in the county of Green and State of Georgia, have invented certain new and useful Improvements in Plow-Colters, of which the following is a specification.

My invention relates to improvements in the class of colters that are secured to and rest against the plow-shovel to facilitate its operation; and the objects of my improvements are, first, to provide a colter with an arm substantially at right angles with the back of the blade and adapted to secure the plow or shovel to the standard without any additional fastenings; and, second, to provide a rigid and substantial connection between the colter and the plow-standard. I attain these objects by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the colter connected to a shovel-plow and its standard, the latter being shown in dotted lines. Fig. 2 is a perspective view of the colter detached. Fig. 3 is a vertical section through a plow-shovel, with the colter secured thereto.

Heretofore colters of this class have been secured either to the shovel or to its standard, or to both together, by means of independent bolts passing through lugs or flanges forming part of said colters; but they have not the strength and rigidity that I obtain by my construction.

In the accompanying drawings, A represents the colter-blade, which tapers in two directions, being much broader at its top than at its point a , and having a broad back, a' , opposite its cutting-edge, and from this back there projects, at an angle of ninety degrees thereto, an arm, a^2 , made integral with the blade and adjoining its upper end. The portion of this arm adjacent to the back of the blade is preferably rectangular in form to produce a fitting connection with the rectangular

opening b in the upper end of the shovel B, and also with the standard C. The outer end of the arm a^2 is cylindrical and screw-tapped to engage with the retaining-nut D, adapted to abut against the rear portion of the standard. From the back of the blade A, about two-thirds down (more or less) from the top, there projects a pin, a^3 , to enter a perforation, b^3 , in the shovel and retain the two together at that point, and this pin may extend beyond the rear of the shovel and enter the standard, steadying the three parts together at that point. In addition to the arm a^2 and steady-pin a^3 , uniting the colter and shovel together, it is desirable that a small groove or indentation, b^2 , should be made in the center or crown line of the shovel to receive the point a of the colter to prevent the fine roots, grass, or weeds from entering and lodging between the colter and shovel.

The shovel shown in the drawings to illustrate the application of the colter is one of the narrow kind; but it is evident that its width and shape may vary.

The standard shown by dotted lines is more especially intended to represent a wooden or solid-metal standard; but the colter may as conveniently be secured to a forked metallic standard by placing a broad washer between the nut D and the back of the branches of this class of standards.

Having now fully described my invention, I claim—

The combination, with a plow-standard and a shovel provided with perforations b and b^3 , of a colter-blade having integral therewith the screw-tapped arm a^2 , and the steady-pin a^3 , projecting from the back of the blade, substantially as and for the purpose described.

COMER C. VINCENT.

Witnesses:

W. O. NORRELL,
JOHN J. COHEN.