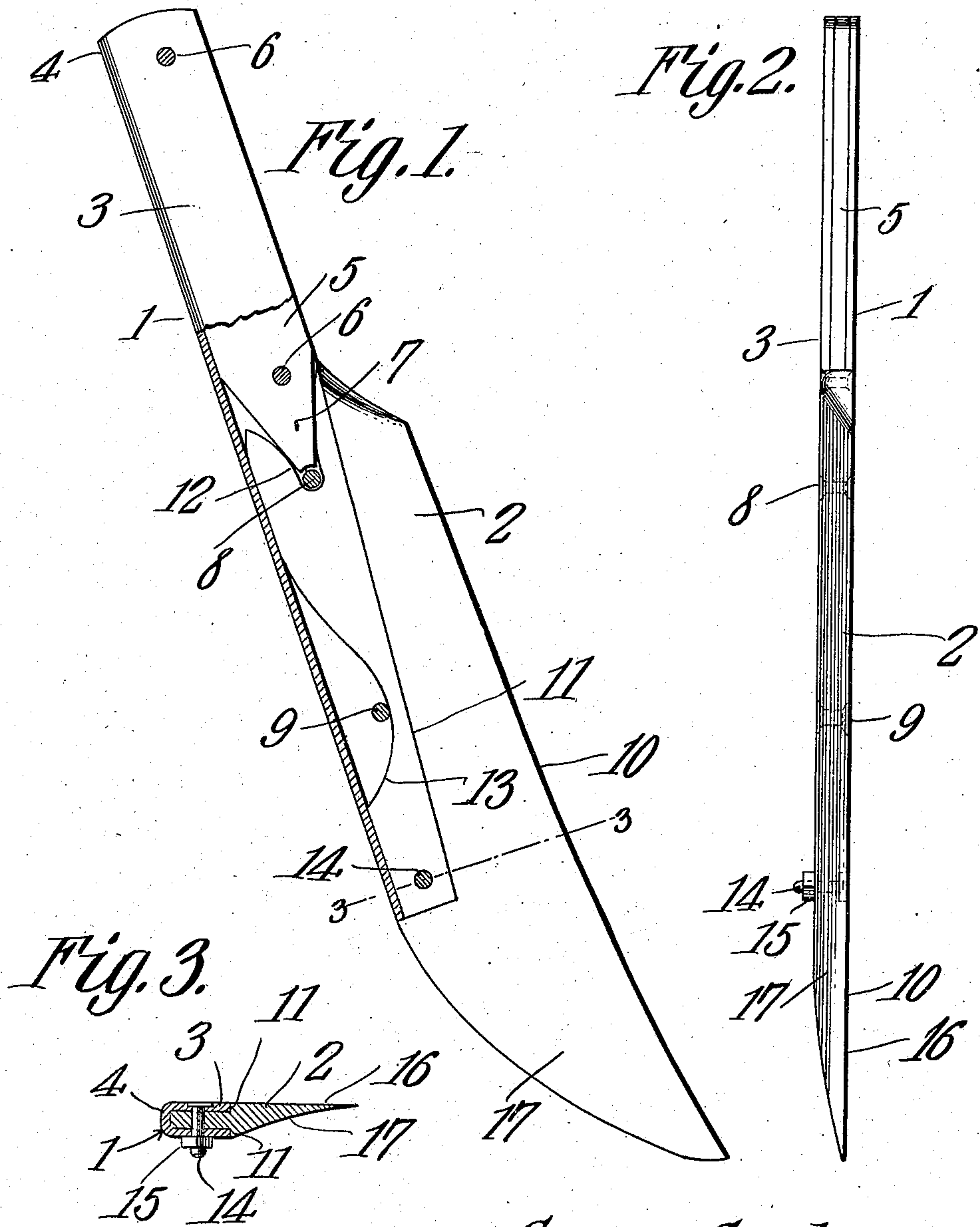


No. 885,019.

PATENTED APR. 21, 1908.

G. CONLEY.  
COLTER.

APPLICATION FILED AUG. 28, 1907.



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Witnesses

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# UNITED STATES PATENT OFFICE.

GEORGE CONLEY, OF CASEVILLE, MICHIGAN.

## COLTER.

No. 885,019.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed August 28, 1907. Serial No. 390,530.

*To all whom it may concern:*

Be it known that I, GEORGE CONLEY, a citizen of the United States, residing at Caseville, in the county of Huron and State of Michigan, have invented a new and useful Colter, of which the following is a specification.

This invention has relation to colters and it consists in the novel construction and arrangement of its parts as hereinafter shown and described.

The object of the invention is to provide a colter consisting of a shank and a separable blade which may be easily and readily removed from the shank for sharpening and repair and which is so constructed as to firmly engage the shank and is held in place thereon by means of a single bolt. The colter blade is so formed as to throw the roots, etc. away from the nut applied to the securing bolt whereby the said nut is prevented from collecting and dragging the roots.

In the accompanying drawing:—Figure 1 is a side elevation of the colter with part of the shank thereof broken away. Fig. 2 is a front edge elevation of the colter, and Fig. 3 is a transverse sectional view of the colter cut on the line 3—3 of Fig. 1.

The colter consists of the shank 1 and the blade 2. The shank is made from a strip of metal 3 which is bent at its middle as at 4 with its side portions lying parallel with each other. The strip 5 is secured between the sides of the shank 1 at the upper end thereof and is held in place by the flat head rivets 6. The lower end portion of the strip 5 is pointed, as at 7, and the rivet 8 passes transversely through the side portions of the shank 1 and is located at the apex of the point 7 of the strip 5. The rivet 9 passes transversely through the side portions of the shank 1 at a point between the rivet 8 and the lower end of the said shank. The said rivet 9 is adapted to prevent the lower side portions of the shank 1 from spreading away from each other.

The blade 2 is provided with a cutting edge 10 and along its longitudinal axis with the inward or undercut shoulders 11 which are adapted to abut against the lower forward edges of the side portions of the shank 1. The upper end of the blade 2 is provided with a notch 12 which is adapted to receive the rivet 8 and the point 7 of the strip 5. The rear edge of the blade 2 is provided with a

recess 13 which receives the rivet 9. The bolt 14 passes transversely through the blade 2 and the lower end portions of the side portion of the shank 1, and is secured in position by means of a nut 15. The blade 2 is provided with a land-side 16 which lies in a plane in alinement with or parallel with the line of draft of the colter, while the opposite side 17 of the blade 2 lies in a plane which intersects the plane of the side 16 at an angle. The line of intersection of the two sides 16 and 17 of the blade 2 occurs at the edge 10 of the blade. Thus it will be seen that the side portions of the shank 1 are securely held in proper relation to each other and that the blade 2 may be removed by removing the bolt 14 only, when the said blade 2 may be slipped longitudinally out of engagement with the said shank. When the parts are assembled the shank 1 is entirely behind and within the contour of the perimeter of the blade 2 and the only projecting element is the nut 15 but as the said nut is located upon the same side of the colter as the side 17 of the blade 2 and as the said side 17 is disposed at an angle to the line in which the colter moves the said side 17 will throw the earth and direct the roots away from the nut 15 which, consequently, cannot collect and drag the earth and roots. It will also be seen that but one securing means must be removed in order to detach the blade from the shank, and that all parts of the colter lying upon the same side thereof as the side 16 of the blade 2 lie in the same plane with that of the said blade side 16.

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

1. A colter comprising a shank formed of a strip of metal bent upon itself longitudinally and having spaced side portions, a strip interposed in the space between the upper ends of the side portions of the shank and having a pointed lower end, a blade having undercut shoulders which abut against the forward lower edges of the side portions of the shank, said blade having at its upper end a notch for receiving the pointed end of the last said strip, and a bolt passing transversely through the blade and the lower portions of the side portions of the shank.

2. A colter comprising a shank formed from a strip of metal bent upon itself longitudinally and having spaced side portions, a strip secured between the side portions of



the shank at the upper end thereof and having a pointed lower end, a rivet passing transversely through the side portions of the shank at the apex of the point of the last  
5 said strip, a blade having longitudinally disposed undercut shoulders which abut against the forward lower edges of the side portion of the shank, said blade having at its upper end a notch for the reception of said rivet and the  
10 pointed end of the last said strip and a bolt passing transversely through the blade and the lower side portions of the shank.

3. A colter comprising a shank formed from a strip of metal bent longitudinally  
15 upon itself and having spaced side portions, a strip secured between the side portions of the shank at the upper end thereof, said strip having a pointed lower end, a rivet passing transversely through the side portions of the shank at the apex of the point of  
20 the strip, a second rivet passing through the side portions of the shank at a point between the first said rivet and the lower end of the shank, a blade having at its opposite sides  
25 longitudinally disposed undercut shoulders

which abut against the lower forward edges of the side portions of the shank, said blade having at its upper end a notch for the reception of the first said rivet and the pointed end of the last said strip, said blade also having at its rear edge a recess for the reception of the last said rivet, said blade having one of its sides lying in the same plane with the plane of one of the sides of the shank and having its opposite side lying in a plane  
35 which intersects the plane of the first said blade side at an angle, a bolt passing transversely through the blade and the lower end portions of the side portions of the shank, and a bolt-securing means located upon the  
40 same side of the colter as the angularly disposed side of the colter blade and behind the said side of the said blade.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature  
45 in the presence of two witnesses.

GEORGE CONLEY.

Witnesses:

ALEX GUYEAU,

THOMAS SINGLETON.