D. N. MUSTARD.

ROOT CUTTER.

APPLICATION FILED FEB. 28, 1914.

1,120,227. Patented Dec. 8, 1914.

Fig. 1.

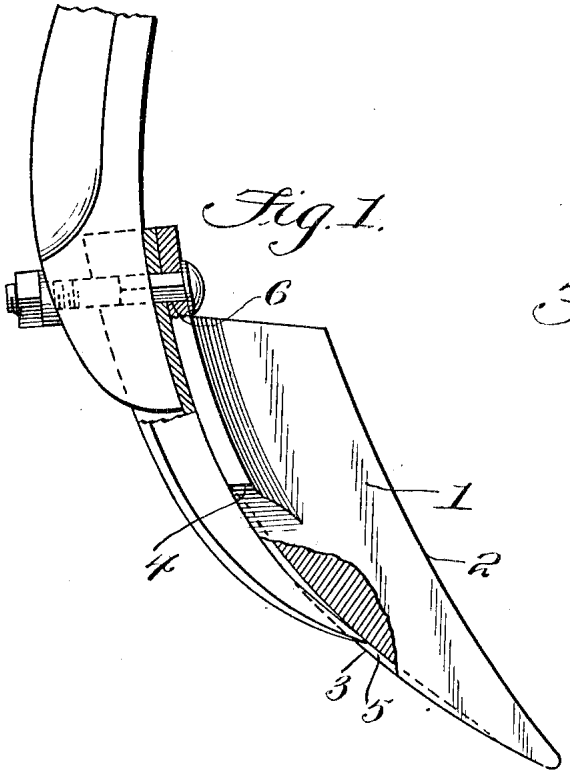


Fig. 2.

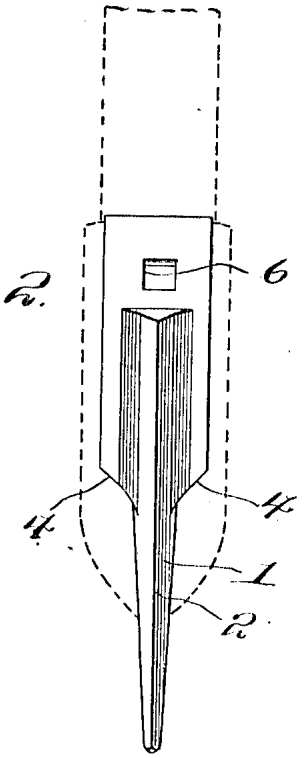


Fig. 3.

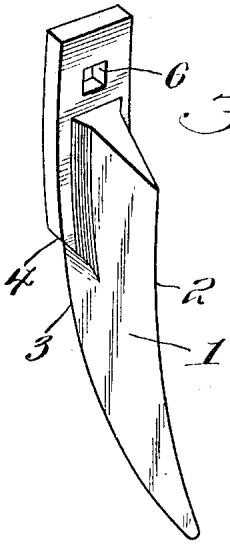
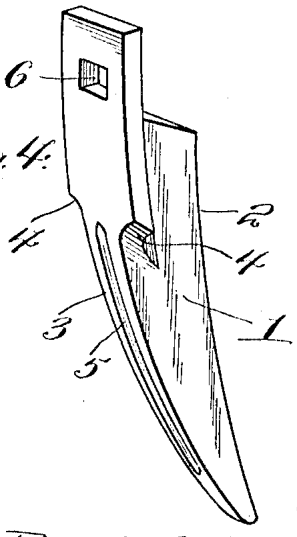


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

DAVID N. MUSTARD, OF PREGNALL, SOUTH CAROLINA.

ROOT-CUTTER.

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Application filed February 28, 1914. Serial No. 821,693.

To all whom it may concern:

Be it known that I, DAVID N. MUSTARD, a citizen of the United States, residing at Pregnall, in the county of Dorchester and State of South Carolina, have invented new and useful Improvements in Root-Cutters, of which the following is a specification.

This invention relates to root cutters and it consists in the novel features hereinafter described and claimed.

An object of the invention is to provide a cutter of the character indicated in the form of a blade adapted to be applied to the standard of a plow stock and which serves to cut the roots as the stock is moved over the ground.

The cutter is especially adapted to be used in new ground and the material of which the blade is composed is so disposed as to effectually brace the blade and to facilitate the cutting operation.

With the above objects in view the blade includes a body having a forward curved cutting edge disposed in the same plane and the median longitudinal dimension of the body. The said body thickens gradually in its transverse dimensions from the said cutting edge and the body is provided with a rear surface which lies in a curved line the curvature of which is sharper than the curvature of the cutting edge so that the rear surface approaches in close proximity to the lower portion of the cutting edge at the lower end of the body. The body is provided at its upper end with laterally disposed shoulders behind which there is a socket or recess adapted to receive the forward part of a soil working member positioned upon the standard of the plow stock. The body is provided at its upper end with a bolt opening and the same bolt that passes through the said opening may be employed for securing the plow point in place upon the standard.

In the accompanying drawing:—Figure 1 is a side elevation of the root cutter applied to the standard of a plow stock showing part of the cutter in section. Fig. 2 is a front elevation of the root cutter. Figs. 3 and 4 are perspective views of the cutter.

The root cutter comprises a body 1 provided at its front with a curved cutting edge 2 which is disposed in the same plane as that occupied by the median long dimension of the body 1. From the cutting edge 2 the body 1 increases in thickness transversely toward a rear curved surface 3. Between the edge 2 and the surface 3 the opposite sides of the body 1 are disposed at equal angles with relation to a plane passing through the cutting edge 2 and the median long dimension of the rear surface 3. The surface 3 is of greater or sharper curvature than the curvature of the edge 2 and consequently the lower end of the surface 3 approaches into close proximity with the lower end of the cutting edge 2. The body 1 is provided at its upper end with shoulder 4 which stands out beyond the sides of the upper portions of the body. The body 1 is further provided at its upper end and at the backs of the shoulders 4 with a recess 5 which extends from the upper end of the body 1 to a line approximately in alinement with the lower ends of the shoulders 4. This recess is adapted to receive a soil turning or soil working member positioned upon the standard of the plow stock. The body 1 is provided in the vicinity of its upper end with a bolt opening 6 and the bolt which is passed through said opening may also be used for securing the said plow point or bull tongue in position upon the standards of the plow stock.

When the body 1 is in position upon the standard as above indicated the cutting edge 2 is disposed downwardly and forwardly with relation to the plow point or bull tongue and consequently the said edge 2 will pass under any roots that may be in the ground and will cut the roots while the soil working member opens a comparatively shallow furrow at the surface of the ground.

It will be observed that the material which constitutes the body 1 is so distributed as to effectually brace the cutting edge portion 2 of the body and consequently the root cutter is enabled to withstand severe shocks and strains during the operation of cutting the roots.

Having described the invention what is claimed is:—

A root cutter comprising a body having a forward curved cutting edge disposed in the same plane as that in which the median longitudinal dimension of the body lies, the

body being provided with a rear curved surface the curvature of the surface being greater than the curvature of the edge whereby the surface approaches the edge at the lower end of the body, the body being provided at its upper end with outstanding shoulders.

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

DAVID N. MUSTARD.

Witnesses:
J. V. BUNCH,
W. M. MOORES.