

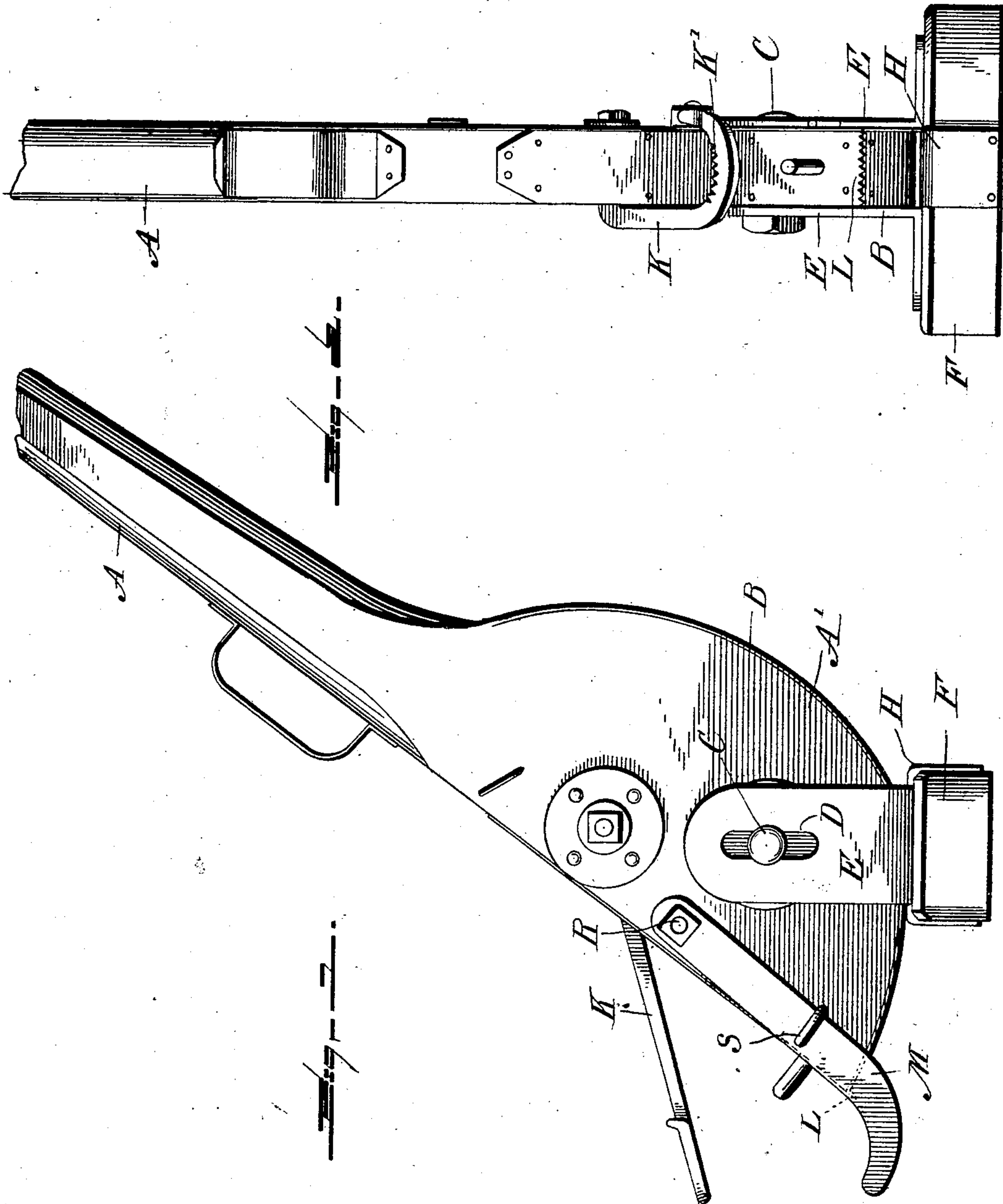
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Patented Sept. 3, 1901.

C. S. DOUTHAT.
GRUBBER.

(Application filed Mar. 13, 1901.)

(No Model.)



WITNESSES:

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GRUBBER.

SPECIFICATION forming part of Letters Patent No. 682,048, dated September 3, 1901.

Application filed March 13, 1901. Serial No. 50,994. (No model.)

To all whom it may concern:

Be it known that I, CHRISTIAN SNIDOW DOUTHAT, a citizen of the United States, residing at Ripplemead, in the county of Giles and State of Virginia, have invented certain new and useful Improvements in Grubbers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in grubbing devices; and it consists of a lever having a cam-shaped end, which is pivoted to a rod supported by and passing through the cam end of the lever and having a sliding movement in slots in a standard, between which supports and the block carrying same the cam end of the lever has a play, the under or cam surface resting upon the block on which it is fulcrumed. In connection with the cam end of the lever is a clamping-arm designed to clamp the trunk of a tree or root, while a cutting-knife is provided, which is pivoted to the lever and designed for use in severing roots.

My invention will be hereinafter more fully described and then specifically defined in the appended claims and is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this application, and in which drawings similar letters of reference indicate like parts throughout both views.

Figure 1 is a side elevation of my improved grubber. Fig. 2 is an edge view.

Reference now being had to the details of the drawings by letter, A designates the lever, which has one end cam-shaped, as at A'. A shoe B is secured on the under face of said cam portion, and C is a guide-rod passing through said cam end and is confined within the slots D in the upright members E. These slotted members are secured to the block F, which between said members is provided with a shoe H, on which the shoe B rests. To one side of the cam end of the lever is pivoted a clamping-arm K, the end of which is curved and provided with teeth K'. This curved end is disposed opposite the end of the cam portion on its upper edge and is designed to co-operate with the end of the stationary toothed

jaw L on the edge of the lever to form clamping-jaws, between which a tree or root is to be grasped. On the opposite side of the lever from that to which said clamping-arm is pivoted is a cutting-knife M, which is pivoted on the bolt or rod R and rests in a hook S. This knife is designed to cut roots as the tree or stump is pried up by the clamping mechanism and lever.

From the foregoing when taken in connection with the drawings it will be noted that the fulcrum-point of the lever is constantly changing as the handle end of the lever is depressed, thus progressively decreasing the leverage and producing a grubber which is very powerful.

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

1. A grubber consisting of a lever having a cam-shaped end, a guide-block on which said lever rests, slotted members on said block a rod carried by said cam-shaped end and having sliding pivotal connection with said slotted members whereby the fulcrum-point of the lever may constantly change as the lever is swung, as set forth.

2. A grubber consisting of a lever having a cam-shaped end, a block on which said cam end is fulcrumed, guide members having elongated slots mounted upon said block, a rod passing through the cam-shaped end of the lever and having a sliding pivotal connection with said members, a pivoted clamp mounted on the lever and a stationary jaw to coöperate with the pivoted clamp to grip a tree while the lever is swung down, the fulcrum-point designed to constantly change as the lever is operated.

3. A grubber consisting of a lever having a cam-shaped end a shoe on the edge thereof, a block on which said shoe rests, slotted members mounted on said block a rod carried by the cam end of the lever and having pivoted connection with said slotted members, a stationary clamp-jaw secured to said lever, a pivoted clamp-arm and a pivoted knife, substantially as shown and described.

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

CHRISTIAN SNIDOW DOUTHAT.

Witnesses:

J. W. PHLEGAR,
JOHN M. LUCAS.