(Model.)

J. MORTER.

CULTIVATOR TOOTH.

No. 256,356. Patented Apr. 11, 1882.

Fig. 1.

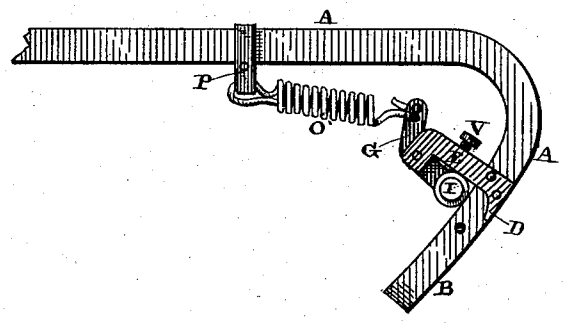
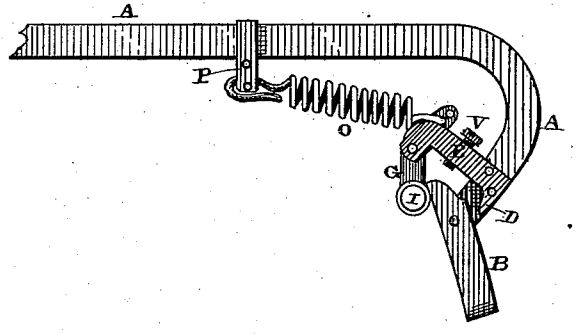


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

JOHN MORTER, OF BLOOMINGBURG, OHIO.

CULTIVATOR-TOOTH.

SPECIFICATION forming part of Letters Patent No. 256,356, dated April 11, 1882.

Application filed December 19, 1881. (Model.)

To all whom it may concern:

Be it known that I, JOHN MORTER, of Bloomingburg, in the county of Fayette and State of Ohio, have invented certain new and useful Improvements in Cultivator-Teeth; and I do hereby 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in cultivator-teeth; and it consists in the combination of a pivoted tooth and a pivoted angular lever, which bears against the upper end of the tooth-frame at its lower end, and which has its upper end secured to a suitable spring, which is secured to the under side of the beam, as will be more fully described hereinafter.

The object of my invention is to hold the tooth in its normal position by means of a pivoted spring-actuated lever while the tooth is being drawn freely along through the ground, but which lever will allow the tooth to give backward in case an obstruction is encountered, and thus enable the tooth to ride over the obstruction without being broken or stopping the team.

Figure 1 is a side elevation of my invention, showing the tooth in its normal position. Fig. 2 is a similar view, showing the tooth bent backward.

A represents the beam, and B the ordinary U-shaped frame to which the tooth C is secured. This frame is pivoted to the lower end of the beam, and is prevented from being forced backward beyond a certain position by means of a stop, D, which is secured to each side of the beam. Rigidly secured to this beam, just above the top of the frame B, are the supports E, which project forward a suitable distance beyond the front edge of the beam, so as to have the angular lever G pivoted between their ends. This angular lever has fastened upon its lower end suitable friction-rollers, I, which bear against the front edge of the toothed frame B for the purpose of forcing it backward against the stops. To the upper end of this angular lever is fastened the rear end of a suitable spring, O, which has its front end secured to the beam by means of a suitable clamp, P. This clamp can be made adjustable back and forth on the beam for the purpose of increasing or decreasing the tension of the spring, if so preferred. As here shown, however, a set-screw, V, is passed down through the top of the supports E and made to bear against the top of the lever G. The farther down the screw is passed the more readily the tooth can give before any obstruction, and the higher the screw is raised the greater the strain required to bend the tooth back. As the lever bears against the upper part of the tooth-frame, the frame is held in the position shown in Fig. 1 until an obstruction is encountered which would either break the tooth or stop the team, and then the lever turns upon its pivot, as shown in Fig. 2, so as to allow the tooth to give backward, and thus ride over the obstruction. The greater the tension upon the spring the more force will be required to move the tooth backward, and thus the amount of pressure required to bend the tooth backward can be regulated at will by the operator.

Having thus described my invention, I claim—

The combination of the beam A, the pivoted tooth-holder B, the supports E, which project beyond the front edge of the beam, the angular lever G, which bears against the upper end of the tooth-holder spring O, and set-screw V, substantially as shown.

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

JOHN MORTER.

Witnesses:

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