S. S. BUSHNELL.

Cultivators.

No. 134,728. Patented Jan. 14, 1873.

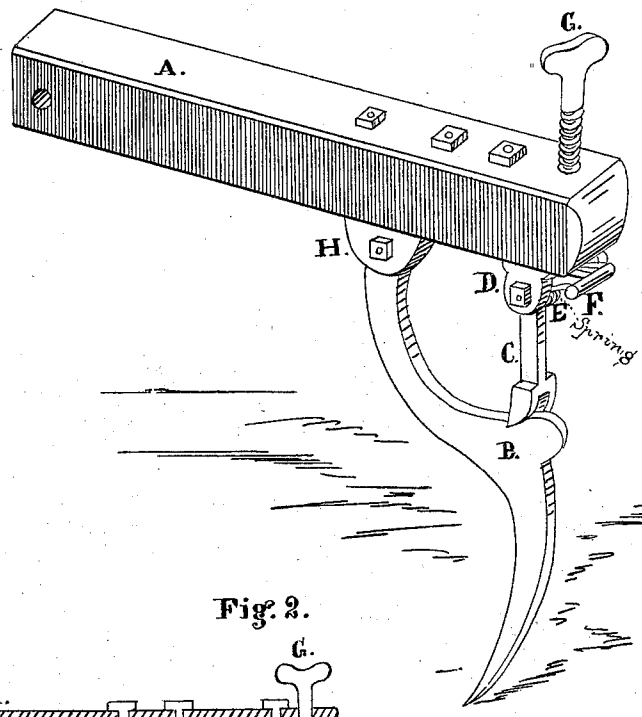


Fig. 1.

Fig. 2.

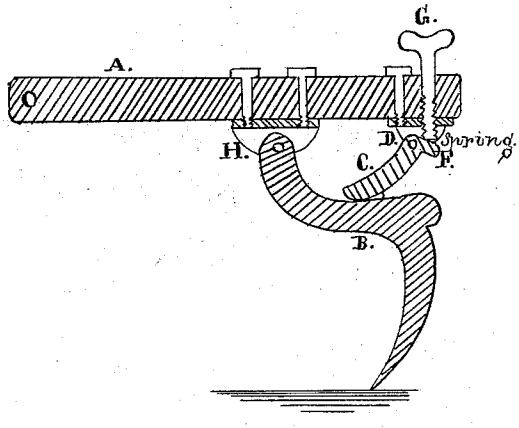
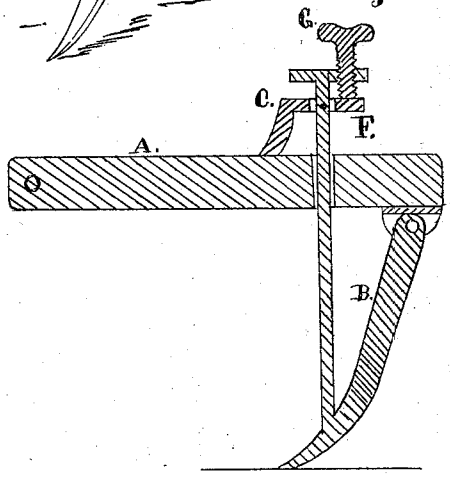


Fig. 3.



Witnesses:
A. Schattenberg.
E. F. Smith

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UNITED STATES PATENT OFFICE.

SEAMON S. BUSHNELL, OF HORICON, WISCONSIN.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. **134,728**, dated January 14, 1873.

To all whom it may concern:

Be it known that I, SEAMON S. BUSHNELL, of Horicon, in the county of Dodge, and in the State of Wisconsin, have invented certain Improvements in Tooth for Seeder or Cultivator, of which the following is a specification:

Nature and Object of the Invention.

My invention consists of a cultivator-tooth of a peculiar form, and an adjustable hinge-brace which holds the tooth in position when at work, which brace may be set at any desired angle by means of a set-screw or stop, so as to hold the tooth firmly in its position, or to permit it to yield to any desired degree of resistance, allowing it to yield to and pass over any obstruction, and when the resistance is overcome, the brace, acted upon by a spring or springs, forces the tooth back to its original position, the brace also resuming its proper position. The brace is secured to the beam by an iron plate to which the brace is jointed. The set-screw presses upon the end of the brace projecting beyond the joint and sets the brace at any desired angle, while the springs pressing upon the opposite side hold the brace to its place, and bring it back when it has been displaced by the tooth striking an obstruction, as soon as the resistance is removed. The tooth is so curved that, with or without a projection, the brace rests upon it when at work, and holds it in the manner described. With this arrangement the brace is under the beam, as shown in the drawing. The same device or brace may be used above the beam, if desired, by jointing it to the upper end of the tooth, which can project above the beam, the other end resting on and adjustable to a plate on the top of the beam.

Description of the Drawing forming a part of this Specification.

Figure 1 is a view of the tooth-beam and tooth in position for work. Fig. 2 is a sectional view of the tooth, when released and pulled back, passing an obstruction. Fig. 3 is another view which shows the tooth and brace arranged differently.

A is the tooth-beam; B, is the tooth; C is the brace; D, the joint of the brace where it is secured to the beam; E, a spring which brings the brace back and holds it in position; F, the end of the brace projecting beyond the point which the set-screw or stop presses down onto, for the purpose of changing the inclination of the brace; G, a set-screw or stop for regulating the brace; H, joint of the tooth where it is secured to the beam.

Fig. 3 shows the brace hung on top of the beam, substantially in the manner as the one described.

Claim.

I claim as my invention—

Beam A, tooth B, and standard C, in combination with set-screw G, substantially as described.

SEAMON S. BUSHNELL.

Witnesses:
WM. STEVENS,
F. SMILY.