(No Model.)

C. H. EGGLESTON.

CULTIVATOR.

No. 261,595. Patented July 25, 1882.

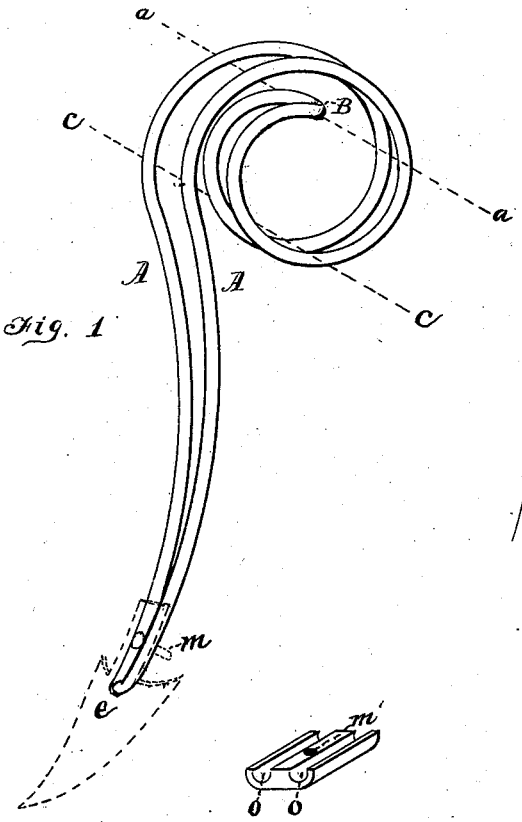

Fig. 1

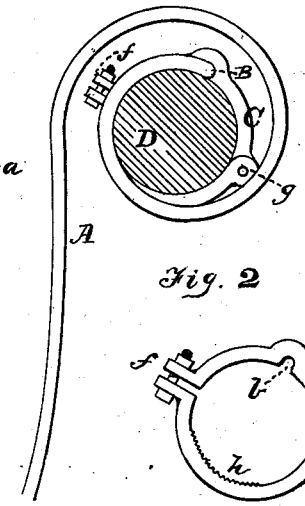

Fig. 2

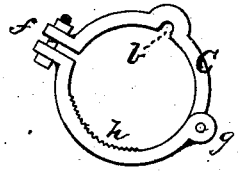

Fig. 3

Fig. 4

WITNESSES

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UNITED STATES PATENT OFFICE.

CHARLES H. EGGLESTON, OF MARSHALL, MICHIGAN.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 261,595, dated July 25, 1882.

Application filed March 28, 1881. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. EGGLESTON, of the city of Marshall, county of Calhoun, State of Michigan, have invented certain new and useful Improvements in Cultivators, of which the following is a specification.

My invention relates to certain new and useful improvements in the class of spring-standards to which the cultivator-blades are secured; and the invention consists in novel features of construction and combination and arrangement of parts, all as will be hereinafter fully described, and specifically designated in the claims.

Referring to the accompanying drawings, Figure 1 is a perspective view of the elastic double-spiral standard. Fig. 2 is a side elevation. Fig. 3 is a plan of the clamp C. Fig. 4 is a perspective of the share-clamp.

Fig. 1 shows clearly the form of the standard. It is formed of a single piece of steel rod doubled upon itself at the middle point, B, and the folded end formed into two equal spirals. The free ends *e* are turned in toward each other, so that when clamped to the blade (shown by dotted lines) they form a loop similar to that at B. These standards are to be secured to a cylindrical bar, D, Fig. 2, (indicated in Fig. 1 by dotted lines *a a* and *c c*,) by means of a clamp, C. (Shown separately in Fig. 3.) The clamp is formed of two semicircular pieces hinged at *g*. At *f* is a bolt and nut, to tighten it upon the cylindrical bar D. A recess, *b*, receives the loop B of the spiral standard A A. The share-clamp, Fig. 4, is provided with two longitudinal grooves, *o o*, to receive the two ends of the standard. The bolt *m* passes through the hole *m'*, and is secured by a nut, thus binding the share securely to the standard A A. The clamp C renders it easy to adjust the pitch of the standard and teeth or shares, since by loosening the bolt at *f* the clamp and spiral may be rotated either forward or backward as far as may be necessary, and secured in any position. In cultivating corn, for instance, a single tooth may be thrown up and secured out of the way, leaving teeth in action on each side of a row.

The bar D may form part of the frame-work of the cultivator; or it may be put on for the specific purpose of carrying the teeth. The teeth may all be carried on one bar, or they may be distributed on several.

Any of the common forms of cultivators may be easily adapted to the use of these spiral standards.

I am aware of patent dated November 9, 1880, and numbered 234,321, and the construction of spring harrow-tooth shown, described, and claimed I distinctly disclaim as of my invention.

I am also aware that a tooth-supporting bar and a circular tooth-fastening clip completely encircling the bar, and provided with fastening devices on its opposite ends, whereby it may be drawn tightly around the bar and secured thereto in any desired rotary adjustment, are old, and such I do not wish to be understood as claiming broadly as of my invention.

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

1. In a cultivator, the spring-standard A A, formed of a single piece of steel rod doubled upon itself at the point B, and the folded end formed into two equal spirals adapted to partially encircle the bar D, and the free ends *e* turned in to form a loop, in combination with a securing-clamp, substantially as herein shown and described.

2. The combination of the hinged clamp C with the bar D and spiral standard A A, substantially as herein shown and described.

CHARLES H. EGGLESTON.

Witnesses:
CHARLES E. GILL,
B. F. WELLES.