

(No Model.)

C. C. TRINKLE.
CULTIVATOR.

No. 301,409.

Patented July 1, 1884.

Fig. 1.

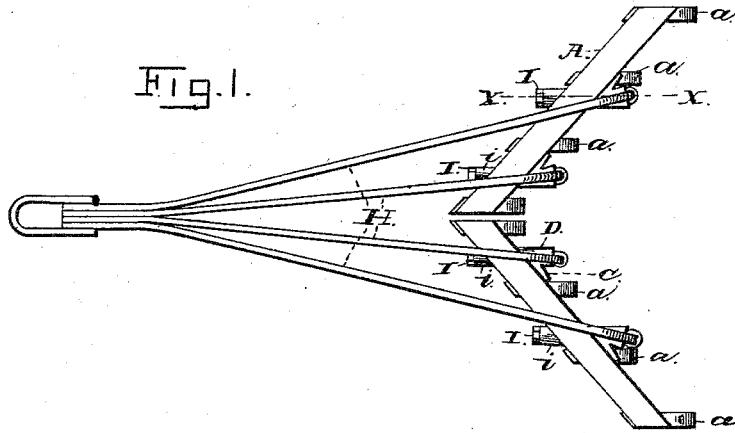


Fig. 2.

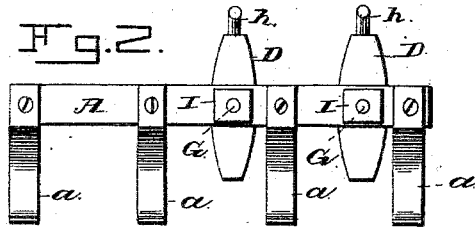


Fig. 3.

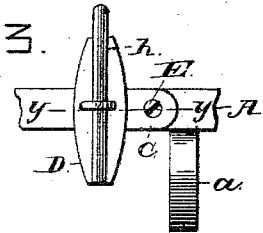


Fig. 4.

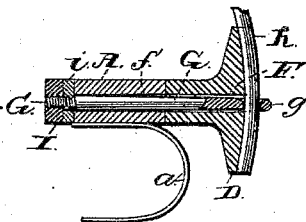


Fig. 5.



WITNESSES

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CHRISTOPHER C. TRINKLE, OF VEEDERSBURG, INDIANA, ASSIGNOR OF ONE-HALF TO FRANCIS M. HELMS, OF SAME PLACE.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 301,409, dated July 1, 1884.

Application filed April 23, 1884. (No model.)

To all whom it may concern:

Be it known that I, CHRISTOPHER C. TRINKLE, a citizen of the United States, residing at Veedersburg, in the county of Fountain and State of Indiana, have invented certain new and useful Improvements in Cultivators; 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 and figures of reference marked thereon, which form a part of this specification.

My invention relates to cultivators; and it consists in the novel construction, combination, and arrangement of the several parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a plan view of my machine. Fig. 2 is a front elevation of one of the tooth-bars. Fig. 3 is a rear elevation of a section of one of the bars. Fig. 4 is a transverse section on line *x x*, Fig. 1. Fig. 5 is a section of the rear casting on line *y y*, Fig. 3, all of which will be described.

The bars *A* are in practice preferably arranged as shown in Fig. 1, and used in pairs, as in said figure. They are provided with suitably-formed shovels or teeth *a*, of which any desired number may be employed to suit the will of the user. Castings *B* are received on the rear side of the bars *A*, and are formed with the lateral wing *C* and the T-head *D*. The lateral wing *C* is provided with a suitable opening, through which the retaining-screw *E* is passed. The T-head is elongated vertically, and arranged at an angle to the wing *C*, as shown. A groove, *d*, is formed in the face of this head, as shown in Fig. 5 and indicated in Fig. 4, in order to form a seat for the cultivator-standard, and the face is preferably curved, as most clearly shown in Fig. 4, in order to give additional strength to the joint, as will be described. An opening, *F*, is formed horizontally through the T-head *B*, and continued at *f* through the bar *A*. The clamping-bar *G* is passed through this opening *F f*. It has its forward end threaded, and its rear end formed with a loop, *g*, fitting over the standard *b*, bent from the beams *H*,

as clearly shown. By means of a nut, *I*, turned on the forward end of this bar, I am able to clamp the bar *A* firmly onto the standard, as will appear from Fig. 4. The beams fitting in the groove *d* and the head being elongated to form additional bearing for same give great firmness to the fastening, and the parts are securely held. I prefer to use the casting or washer *i* between the nut *I* and bar *A*, and to form said washer with its faces inclined to each other, as shown, so as to form a square bearing for the nut *I*.

The form of cultivator-frame may be varied at will. I have shown the one in Fig. 1 as a simple form and a convenient mode of carrying my invention into effect.

It will be readily seen the bar or bars *A* can be readily applied to any ordinary form of cultivator or plow frame by means of bar *G*, operating as before described.

It will be seen my casting provides a construction which can be readily applied to any ordinary tooth-bar for the purpose of readily attaching same to the standards.

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

1. The combination of the bar supporting the teeth, the casting *B*, secured on the rear side of same, and having its back face or head elongated vertically, and formed with a groove adapted to provide a seat for the standard, the standard seated in said groove, the clamping-bar inserted through the casting and the bar, and having a loop embracing the standard, and the nut turned on the forward end of the clamping-bar, substantially as set forth.

2. As an article of manufacture, the casting, substantially as shown, having a T-head, elongated vertically, and grooved to form a seat for the standard, and provided with a horizontal passage for the clamping-bar, substantially as set forth.

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

CHRISTOPHER C. TRINKLE.

Witnesses:

WILLIAM E. BAKER,
A. PARKER.