

No. 642,014.

Patented Jan. 23, 1900.

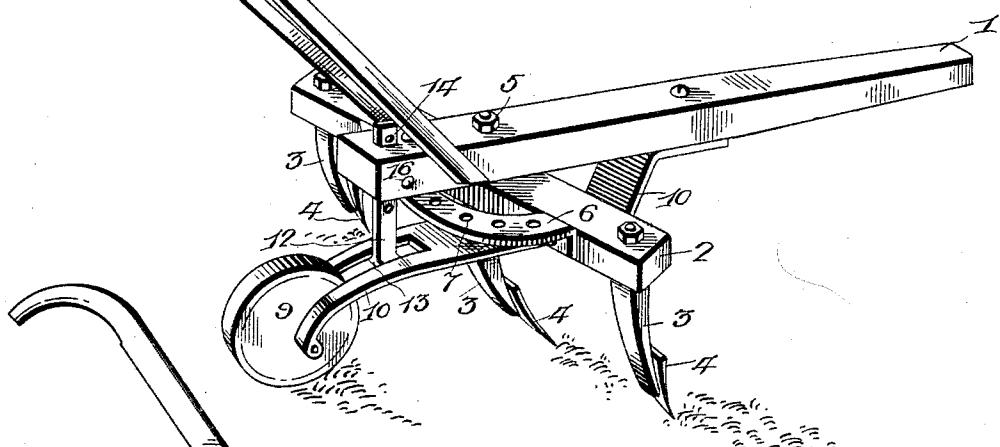
S. E. SPENCER.

CULTIVATOR.

(Application filed Nov. 16, 1899.)

(No Model.)

FIG. 1



UNITED STATES PATENT OFFICE.

SAMUEL E. SPENCER, OF WATSON, MISSISSIPPI.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 642,014, dated January 23, 1900.

Application filed November 16, 1899. Serial No. 737,204. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL E. SPENCER, a citizen of the United States, residing at Watson, in the county of Marshall and State of Mississippi, 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.

The invention relates to cultivators.

The object of the invention is to provide a cultivator which shall be simple of construction, durable in use, and comparatively inexpensive of production, and which will perform its work in an efficient manner and be capable of various adjustments.

To this end the invention consists in certain features of construction and combination of parts, which will be hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of my improved cultivator. Fig. 2 is a longitudinal sectional view. Fig. 3 is a detail perspective view of the vertically-adjustable arm for supporting the depth-gaging roller or wheel.

In the drawings the same reference characters indicate the same parts of the invention. 1 denotes the cultivator-beam, and 2 the cultivator-head pivoted to the under side of said beam to swing at an angle relatively to the length thereof. To this cultivator-head are secured cultivator-standards 3, having at their lower ends shovels 4. In the present instance I have shown three cultivator-standards. The middle one has a reduced end which projects vertically through the central aperture of the cultivator-head and through an aperture in the beam and is provided with a nut 5. This middle standard has no movement and is the means by which the head is pivoted to the beam. To the rear side of the head is secured a segmental plate 6, having a segmentally-arranged row of apertures 7, which are adapted to be brought into alignment with an aperture 8, extending through the beam. A pin is passed through the aperture 8 into one of the apertures of the segmental plate and holds the head in its adjustment with the beam.

To vary the depth of the work, I provide a depth-gage wheel or roller 9, journaled in the bifurcated arms of a spring-plate 10, which has its forward end projecting forward of the 55 cultivator-head and secured to the under side of the cultivator-beam. This plate is provided with an aperture 11, through which the middle cultivator-standard projects.

12 denotes a bar, the lower end of which 60 projects between the bifurcated arms of the plate and is provided with a T-head 13 to engage the under side of the bifurcated arms. The upper end of this bar passes through the aperture in the rear end of the cultivator-beam and is provided with a vertical row of apertures 14, which are adapted to be brought into alignment with the transverse apertures 15, extending through the side of the cultivator-beam at its rear end. A pin 16 is adapted 65 to be passed through these apertures and through the apertures in said bar and hold the bar in vertical adjustment. The energy of the spring-plate is always exerted to force the roller downward, and this bar is used for 70 the purpose of elevating the roller or wheel and holding it elevated at any desired point, so as to vary the depth of the cut of the cultivator-shovels.

From the foregoing description, taken in 80 connection with the accompanying drawings, it is thought that the construction, operation, and advantages of my improved cultivator will be readily apparent without requiring an extended explanation.

It will be seen that my invention is simple of construction, that said construction permits of its manufacture at a small cost, and that it is exceedingly well adapted for the purpose for which it is designed, and it will 85 of course be understood that various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of my invention.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

The combination with a cultivator-beam; of a cultivator-head provided with cultivator-standards having secured to their lower ends 90 cultivator-blades, one of said standards being

provided with a reduced portion and projecting through the head and the beam, a nut for clamping the parts together, a segmental plate provided with a segmental row of apertures to be brought into alinement with the aperture in the rear end of the cultivator-beam, a spring-plate secured to the under side of the cultivator-beam and provided with a roller projecting at the rear of the cultivator-beam, and a vertically-adjustable bar engaged with the rear end of the spring-plate

and adapted to hold the roller in vertical adjustment, substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

SAMUEL E. SPENCER.

Witnesses:

J. B. PIPKIN,
A. F. FURR.