

(No Model.)

W. L. & R. A. DANIEL.

COTTON CHOPPER.

No. 307,632.

Patented Nov. 4, 1884.

Fig. 1.

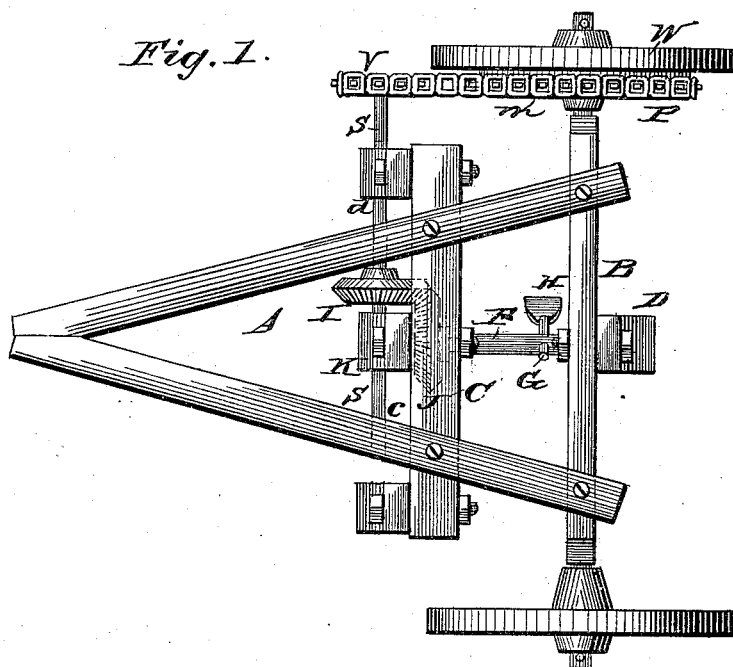
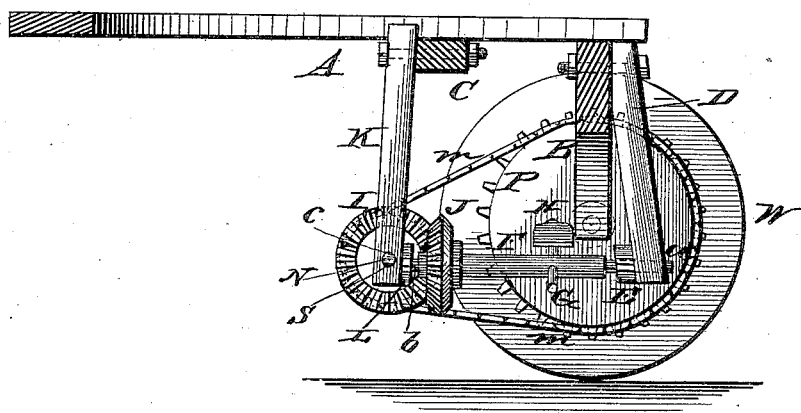


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM L. DANIEL AND ROBERT A. DANIEL, OF DALLAS, TEXAS.

COTTON-CHOPPER.

SPECIFICATION forming part of Letters Patent No. 307,632, dated November 4, 1884.

Application filed June 28, 1884. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM L. DANIEL and ROBERT A. DANIEL, citizens of the United States, residing at Dallas, in the county of Dallas and State of Texas, have invented certain new and useful Improvements in Cotton-Choppers; and we 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 letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a plan view of our device, and Fig. 2 is a vertical sectional view of the same.

This invention has relation to cotton-choppers or cotton-chopper attachments for cultivators; and it consists in the construction and novel arrangement of devices, as hereinafter set forth, and pointed out in the appended claim.

In the accompanying drawings, the letter A designates the frame of a wheel-cultivator, having the raised axle B and front arch, C, to which the cultivator-beams are connected.

D represents a vertical arm, which is secured to the middle portion of the axle and extends downward. At its lower end it is provided with a bearing, E, for the rear journal, *a*, of the shaft F, which extends forward, and carries the shank G of the chopping hoe or blade H.

K indicates a vertical arm, which is secured to the middle portion of the front arch, C, and extends downward therefrom. At its lower end, in rear, it is provided with a bearing, L, for the front journal, *b*, of chopper-shaft F. It is also provided at its lower end with a lateral bearing, N, for the inner journal end, *c*, of the transverse shaft S, which extends through a second bearing, *d*, on one of the

outer arms of the front arch, as shown. The shaft S carries at or near its outer end a small sprocket or chain wheel, V, and near its inner end a bevel-wheel, I, which engages a bevel-wheel, J, on the front portion of the chopper-shaft.

P indicates a sprocket-wheel on the inside of the large supporting-wheel W of the machine, and *m* is the chain connecting the sprocket-wheels P and V. When the machine is moving forward, the chain operates the transverse shaft S, which in turn rotates the chopper-shaft and causes the chopper shank and blade to revolve in a plane at right angles to the direction of draft, cutting out the cotton.

We are aware that it is not new to provide a frame with a transverse shaft carrying a gear to engage a similar gear on a cutter-shaft arranged at right angles to the former, and therefore do not claim such devices, broadly.

Having described this invention, what we claim, and desire to secure by Letters Patent, is—

The cotton-chopper described, consisting of the frame A, raised axle B, and arch C, having at one end the bearing *d*, the transverse shaft S, carrying the bevel-gear I, and journaled in the said bearing, and the vertical arm K, the said shaft also carrying a sprocket-wheel, V, which is connected to a similar wheel upon the axle by means of the endless chain *m*, the cutter-shaft F, journaled at opposite ends in the arms D and K, and the removable cutter H, all combined and adapted to operate substantially as specified.

In testimony whereof we affix our signatures in presence of two witnesses.

W. L. DANIEL.
R. A. DANIEL.

Witnesses:

W. A. HUDSON,
L. H. LAWRENCE.