

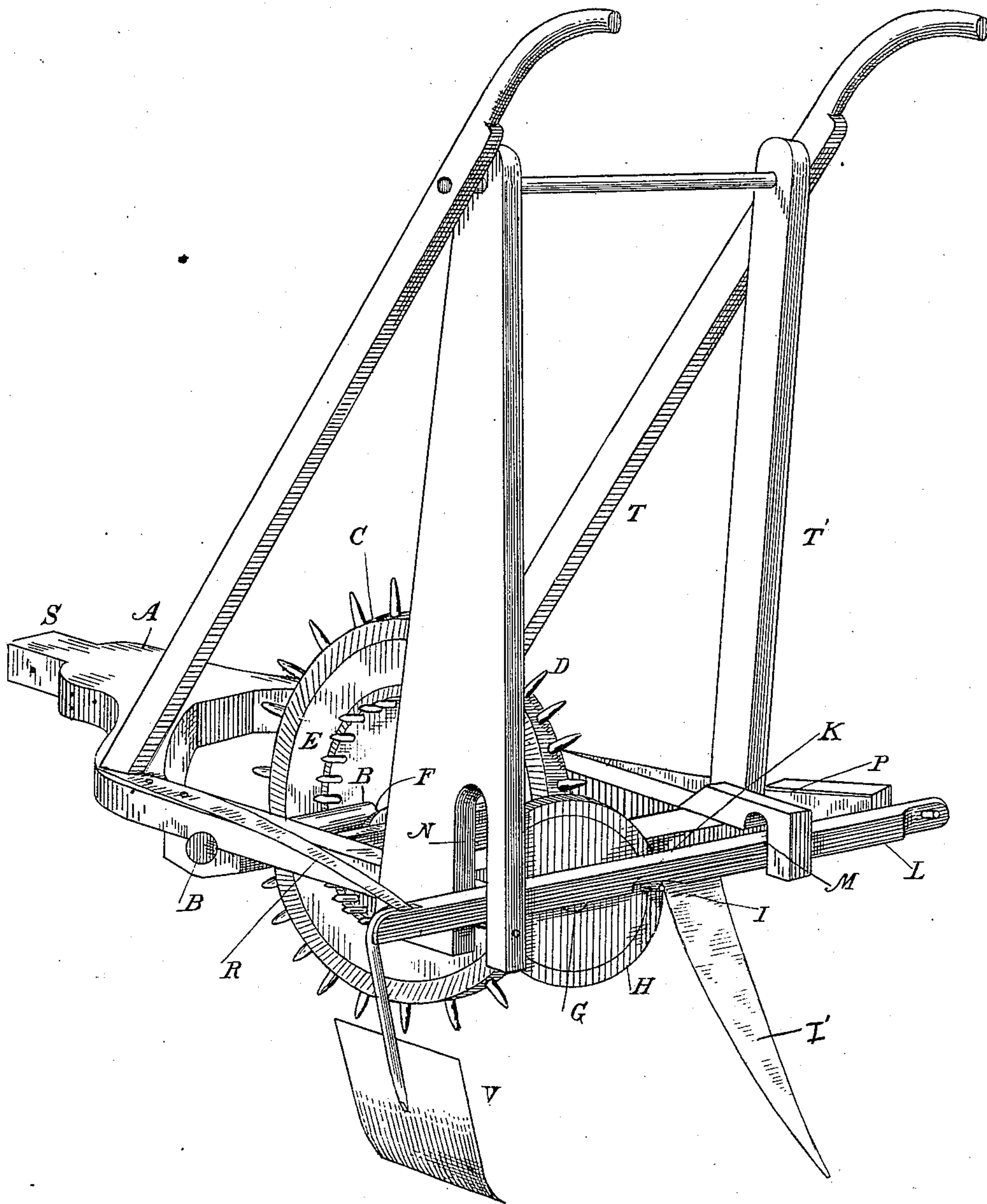
(No Model.)

J. D. FAULKNER.

COTTON CHOPPER.

No. 312,108.

Patented Feb. 10, 1885.



WITNESSES

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JAMES D. FAULKNER, OF COBURN'S STORE, NORTH CAROLINA.

COTTON-CHOPPER.

SPECIFICATION forming part of Letters Patent No. 312,108, dated February 10, 1885.

Application filed June 20, 1884. (No model.)

To all whom it may concern:

Be it known that I, JAMES DAVIS FAULKNER, a citizen of the United States, residing at Coburn's Store, in the county of Union and State of North Carolina, have invented certain new and useful Improvements in Cotton-Choppers, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to certain improvements in cotton-choppers; and it consists in a suitable carriage having a reciprocating transverse beam carrying at one end a chopping-blade or hoe, and provided with suitable gearing connecting with the drive-wheel, whereby the reciprocating beam is operated, as more fully hereinafter specified.

The drawing represents a perspective view of my invention.

20 The letter A indicates the carriage, in which are journaled the ends of an axle, B, upon which the driving-wheel C is mounted. The said driving-wheel is provided with a series of pegs or projections, D, on its periphery, which take into the ground and prevent the slipping of the wheel, so as to insure the uniform operation of the gearing. The shaft or axle is also provided with a crown gear-wheel, E, which sets closely against the driving-wheel, or said crown gear-wheel may be made integral with the driving-wheel, if desired. The said crown gear-wheel intermeshes with a crown gear-wheel, F, which is mounted on the short shaft G, journaled in suitable bearings in the carriage, and on the rear end of said shaft is mounted a wheel, H, having on its rear face two or more pins, I, which alternately engage a notch, K, on the under side of the reciprocating beam L, to operate it, as more fully hereinafter specified. The said beam is arranged to travel transversely in a slot, M, at one side of the carriage at the rear and in a slot, N, in the standard P at the other side of the carriage, the said slot N being elongated vertically to allow the beam to rise and fall, as more fully hereinafter specified. To one side of the carriage is secured a flat spring, P, which holds the beam in a normal position and returns it thereto, and at the other side with a spring, R, which has a tendency to press the beam downward to assist in the operation of the beam. The carriage has a short

tongue, S', in front, to which the draft-pole may be attached, and is provided with handles T, which are supported by means of the rear upright standards. The letter T' indicates a marker extending rearwardly, which, by marking the ground, serves to aid in uniformly spacing the rows. At the free end of the beam L is secured a chopping-blade or hoe, V, which is curved, as shown in the drawing.

The operation of the machine is as follows: The carriage in traveling rotates the drive-wheel, which in turn rotates the cogged gearing and the shaft of the wheel at the rear provided with pins on its rear face, as before mentioned. The pins successively engage the notch in the beam, carrying it upward and to one side a sufficient distance, then allowing it to fall gradually, when they trip it and allow the spring at the end of the beam to act, drawing the hoe to one side and chopping out the cotton. This action occurs at suitable intervals as the carriage travels, as will be readily perceived.

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

1. The combination, in a cotton-chopper, of the carriage mounted on a transverse axle, the drive-wheel mounted on said axle and provided with peripheral projections, the crown-gearing and shaft operated thereby, the wheel mounted on said shaft and having projections on its face, the reciprocating beam and springs, and the hoe or chopping-blade secured to said beam, all arranged to operate substantially in the manner specified.

2. The combination, with the reciprocating notched beam carrying the hoe or chopping-blade, of the springs at each side of the carriage, the disk mounted on a suitable axle and provided with pins on its rear face, and the gearing whereby the said disk is rotated, the whole arranged to operate substantially in the manner set forth.

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

JAMES D. FAULKNER.

Witnesses:

R. L. STEWART,
R. J. WENTZ.