

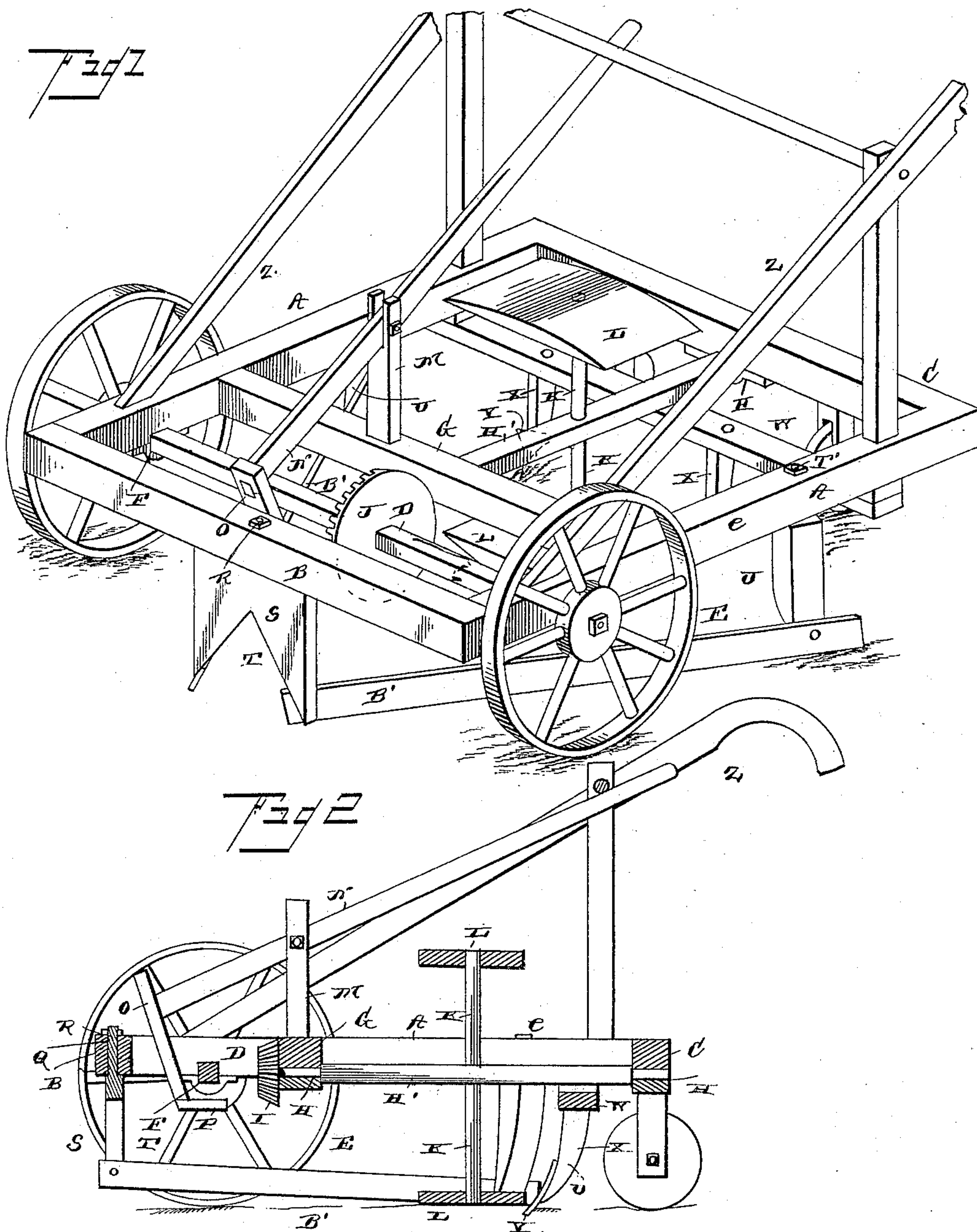
(No Model.)

2 Sheets—Sheet 1.

A. CHAMBERS.  
COTTON CHOPPER.

No. 409,771.

Patented Aug. 27, 1889.



Witnesses

John Imirie  
Wm. Bagger

Inventor

Abram Chambers

By his Attorneys

C. Snow

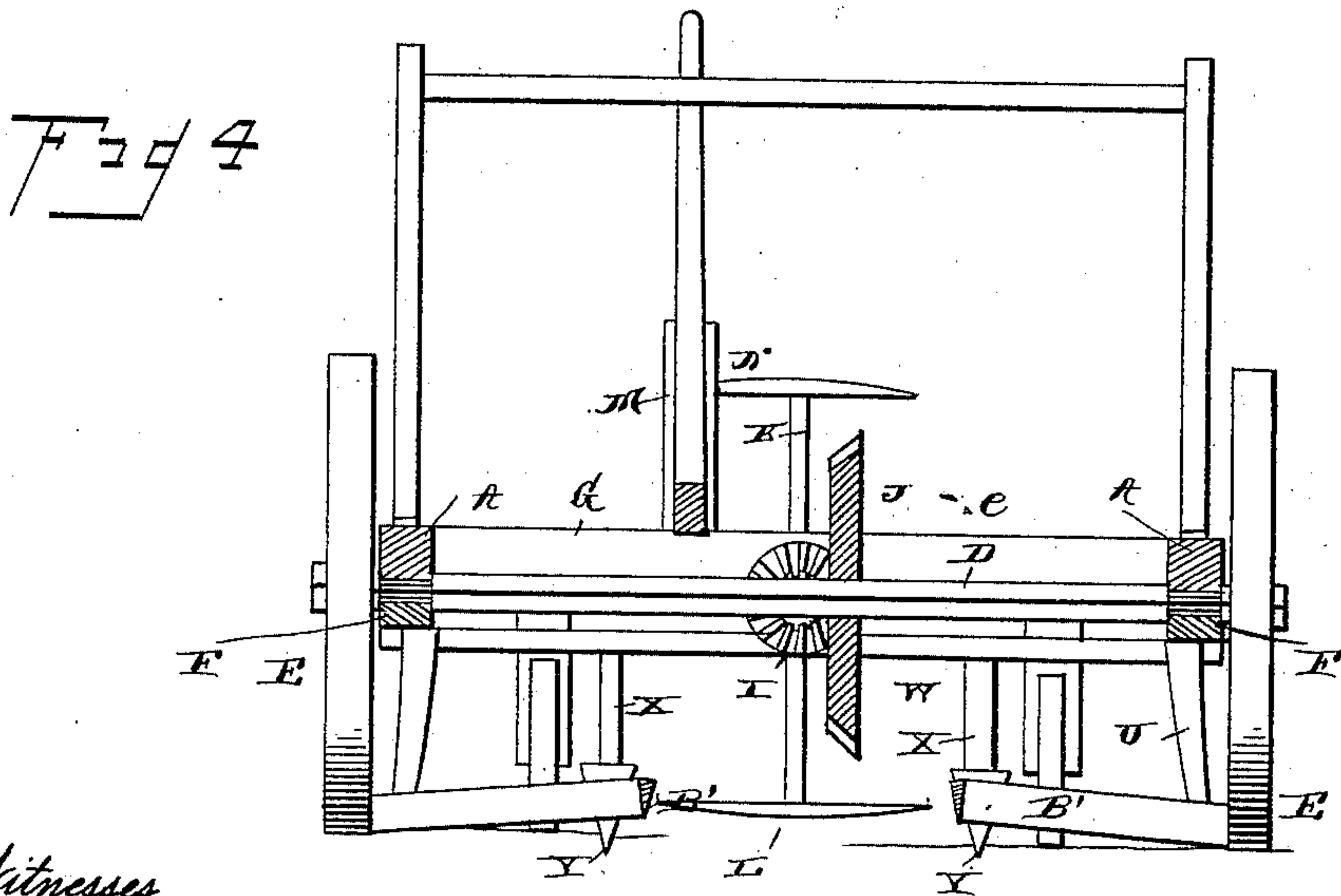
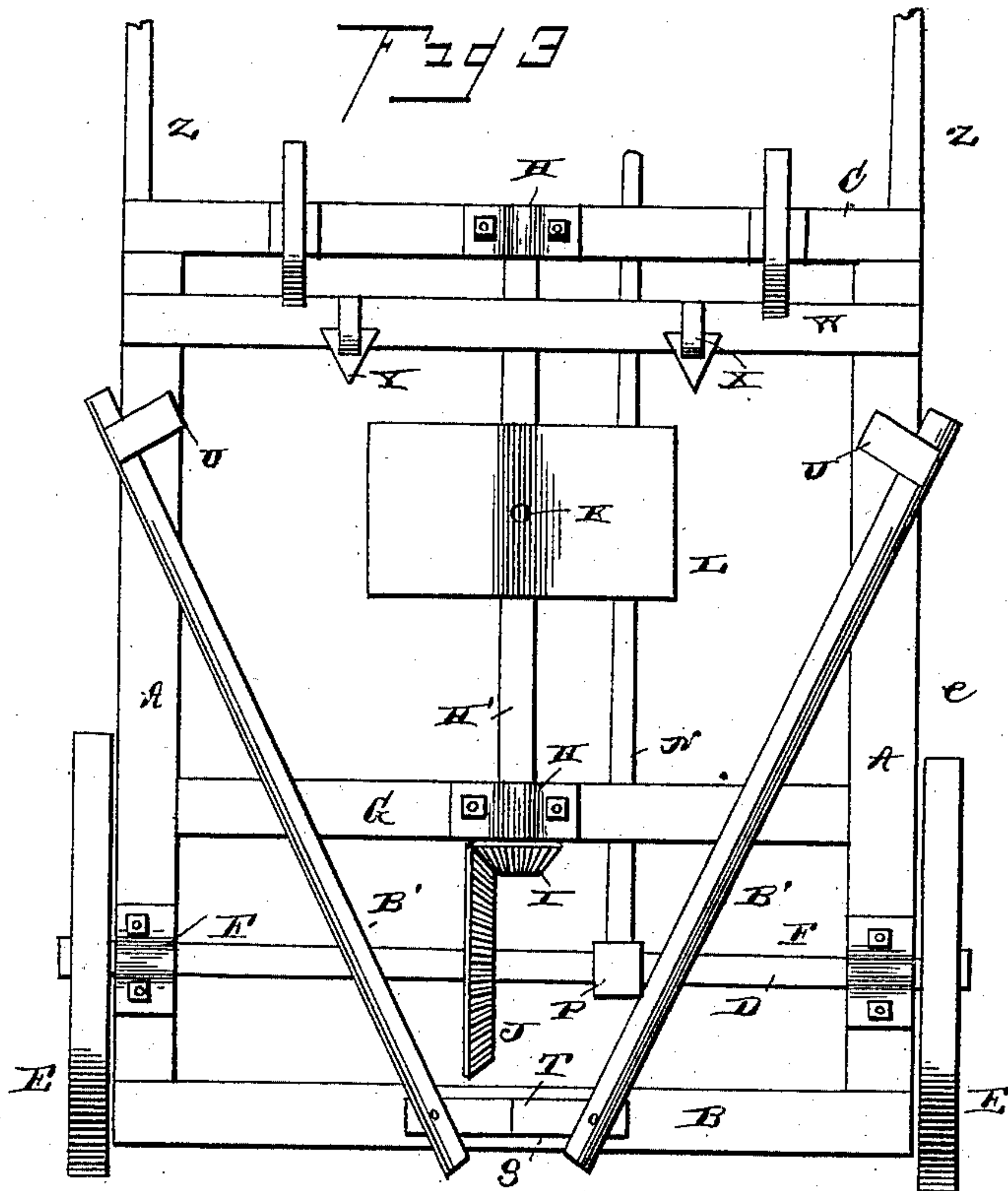
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# UNITED STATES PATENT OFFICE.

ABRAM CHAMBERS, OF BAGWELL, TEXAS.

## COTTON-CHOPPER.

SPECIFICATION forming part of Letters Patent No. 409,771, dated August 27, 1889.

Application filed May 3, 1889. Serial No. 309,541. (No model.)

*To all whom it may concern:*

Be it known that I, ABRAM CHAMBERS, a citizen of the United States, residing at Bagwell, in the county of Red River and State of Texas, have invented a new and useful Cotton-Chopper, of which the following is a specification.

This invention relates to cotton-choppers; and it has for its object to provide a machine of this class which shall be simple, inexpensive, and efficient in operation.

The invention consists in the improved construction and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings, Figure 1 is a perspective view of my improved cotton-chopper. Fig. 2 is a longitudinal sectional view. Fig. 3 is a bottom plan. Fig. 4 is a transverse sectional view.

The same letters refer to the same parts in all the figures.

The frame of my machine consists of the longitudinal parallel side beams A A and the front and rear beams B C, and is mounted upon the axle D, having the transporting-wheels E E, which are mounted securely upon the ends of said axle, the latter being journaled revolubly in suitable boxes or bearings F upon the under sides of the side beams A A of the frame. Said side beams A A are connected by a transverse cross-bar G.

Bearings H H are provided on the under side of the said beams G, and the rear frame-beam C or longitudinal shaft H', provided at its front end with a pinion I, meshing with a gear-wheel J, which is suitably secured upon the revolving axle of my machine, and from which motion may thus be transmitted to the said longitudinal shaft H'. The latter is provided with one or more radial arms K K, the outer ends of which carry the chopping-hoes L, the operation of which will be well understood.

The cross-bar G of the frame has an upwardly-extending bifurcated standard M, in which is pivoted a lever N, the front end of which has a downward-extending pivoted arm O, to the lower end of which is attached the rearwardly-extending shoe P. The revolving axle D of the machine is made square in cross-section, and it

will be seen that by depressing the rear end of the lever M the shoe P will be brought into contact with the said axle, thus locking it and preventing it from revolving, thereby interrupting the rotary motion of the shaft H', carrying the choppers.

Through a vertical perforation Q in the front beam of the machine extends a vertical shank R, the lower end of which carries a plate S, provided with an inverted-V-shaped notch T of sufficient size to straddle the row of growing plants which is to be operated upon by the machine.

T' T' are shanks extending vertically through the perforations in the side beams of the machine, and provided at their lower ends with standards U U, which are connected by means of sweeps or scrapers B' B' with the inner sides of the V-shaped notch T in the plate X.

The sides of the frame are connected, near the rear end of the same, by a cross-bar W, having downwardly-extending standards X, which carry sweep-plows Y of ordinary construction. Handles Z Z, by means of which the machine may be conveniently guided, are to be suitably attached to the frame.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of this invention will be readily understood. As the machine progresses over the field the V-shaped notch in the plate S straddles the row of plants which is to be operated upon, and the sweeps or scrapers connected to the said plate serve to destroy any weeds that may be growing close to the plants and to throw them outwardly from the same. At the same time the rotary chopper is operated so as to chop out or thin the row, leaving stands of proper size. When for any reason it shall be desired to suspend the operation of the chopper temporarily, this may be conveniently done by means of the brake mechanism herein described.

The construction of my improved machine is exceedingly simple and inexpensive, and it may be operated with a small expenditure of power.

Having thus described my invention, I claim—

1. In a cotton-chopper, the combination of



the rectangular frame, a longitudinal shaft provided with radial arms carrying chopping-hoes, a pinion at the front end of said longitudinal shaft, a revolving axle made square  
 5 in cross-section, a gear-wheel upon the said axle, meshing with the pinion upon the longitudinal chopper-shaft, and a lever having a downwardly-extending pivoted arm provided with a shoe adapted to engage the axle and  
 10 prevent it from revolving, substantially as herein described, and for the purpose set forth.

2. In a cotton-chopper, the combination, with the frame, of a vertical shank mounted centrally in the front beam of the frame and  
 15 provided at its lower end with a plate having an inverted-V-shaped notch adapted to straddle the row of plants, and diverging scrapers attached to and extending rearwardly from the sides of said notch, substantially as and for  
 20 the purpose set forth.

3. In a cotton-chopper, the combination, with the frame, of the vertical shank mounted centrally in the front beam of the same, and provided at its lower end with a plate having  
 25 an inverted-V-shaped notch, the shanks mounted vertically in the sides of the frame and having downwardly-extending standards, and the forwardly-converging scrapers attached to the said standards and to the inner  
 30 sides of the V-shaped notch in the vertical front plate, substantially as and for the purpose herein set forth.

4. In a cotton-chopper, the combination of the frame, the vertical plate secured to the

front beam and having an inverted-V-shaped notch, the standards secured to the side beams  
 35 of the frame, the scrapers connecting said standards with the sides of the V-shaped notch, the longitudinal shaft carrying the radial chopping-hoes adapted to work be-  
 40 tween the diverging rear ends of said scrapers, and mechanism for transmitting motion to the said longitudinal chopper-shaft from the axle of the machine, substantially as and  
 45 for the purpose set forth.

5. In a cotton-chopper, the combination of the frame, the vertical plate at the front end of the same having an inverted-V-shaped notch, the standards extending downwardly  
 50 from the sides of the same, the scrapers connecting said standards with the sides of the V-shaped notch, the longitudinal chopper-shaft, means for transmitting motion to the latter from the axle of the machine, and a  
 55 transverse frame-beam having downwardly-extending standards provided with sweep-plows, substantially as and for the purpose herein set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in  
 60 presence of two witnesses.

his  
 ABRAM X CHAMBERS.  
 mark

Witnesses:

V. S. DORSETT,  
 J. T. JEMISON.