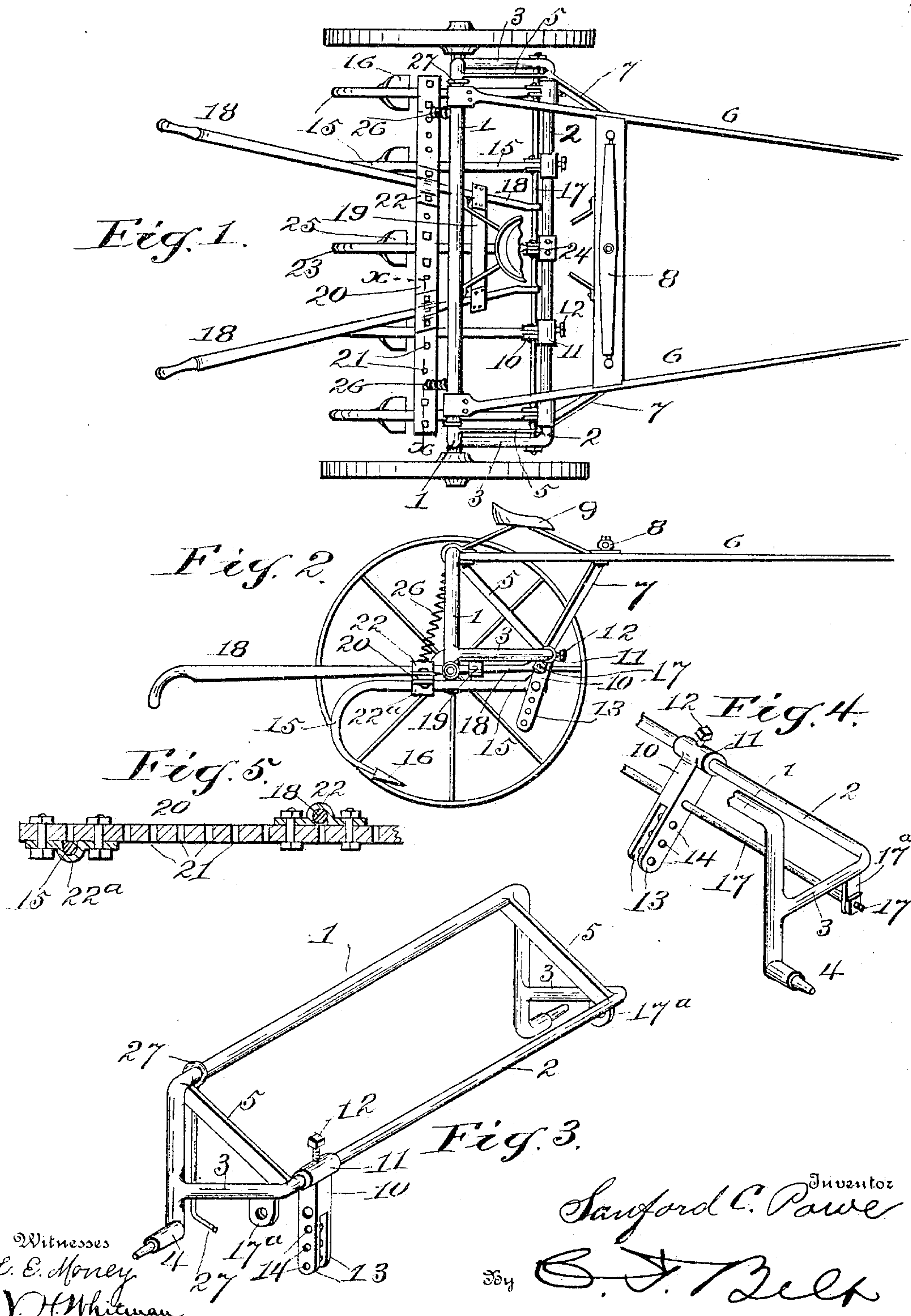


No. 801,689.

PATENTED OCT. 10, 1905.

S. C. POWE.
COTTON CULTIVATOR.
APPLICATION FILED DEC. 30, 1904.



Witnesses
L. E. Money
V. H. Whitman

Inventor
Sanford C. Powe
By
C. J. Zelt
Attorney

UNITED STATES PATENT OFFICE.

SANFORD C. POWE, OF HATTIESBURG, MISSISSIPPI.

COTTON-CULTIVATOR.

No. 801,689.

Specification of Letters Patent.

Patented Oct. 10, 1905.

Application filed December 30, 1904. Serial No. 238,992.

To all whom it may concern:

Be it known that I, SANFORD C. POWE, a citizen of the United States, residing at Hattiesburg, in the county of Perry and State of Mississippi, have invented certain new and useful Improvements in Cotton-Cultivators, of which the following is a specification.

This invention relates to cotton choppers and cultivators, and pertains especially to a sulky or wheeled machine adapted for use as a cotton-chopper and as a cotton-cultivator.

The object of the invention is to provide a machine having the standards suspended from its frame by springs which retract the standards in vertical movement, all of the standards being pivoted so as to be adjusted vertically and all of said standards except the central one being adjustable laterally; to provide handles pivotally hung from the frame and adapted to be depressed to extend the springs, said standards adapted to have interchangeably attached thereto blades for chopping cotton and hoes for cultivating cotton.

A further object of the invention is to provide in a wheeled cotton chopper and cultivator a peculiar frame, a bar having standards adjustable laterally thereon, and upon which bar a pair of handles are mounted to depress the standards, a series of hangers depending from the frame and having the standards adjustably pivoted therein, and a guide-rod extending through the hangers and having the handles pivoted thereto, and springs connecting the bar with the frame to retract the standards.

It is important to provide for both vertical and lateral adjustment of the standards and to have a central standard follow in the path of the draft-animal, so that the central row may be operated on and so that said lateral adjustment may position the standards relative to the central standards and according to the width desired between them. It is therefore my purpose to furnish a machine capable of said adjustments and of such simple and inexpensive construction and of such arrangement of parts that unusual time and labor is saved in assembling and operating the machine, and that cultivating-hoes and cutting-blades may be interchanged upon the standards according to the nature of the work desired of the machine.

In the accompanying drawings, forming part of this application, Figure 1 is a top view. Fig. 2 is a side elevation with near wheel removed. Fig. 3 is a perspective view

of the frame. Fig. 4 is a perspective view of one end of the frame, showing the guide-rod in position. Fig. 5 is an enlarged section on the line *x x*, Fig. 1.

The same reference-numerals denote the same parts throughout the several views of the drawings.

The frame comprises rear and front portions 1 and 2, respectively, parallel with each other, and end sections 3, which stand at an angle from the wheel-axles 4 and portions 1 and 2 with a brace 5, so as to form a V-shaped frame. The shafts 6 are suitably coupled to the rear portion 1 of the frame and have proper braces 7 from the front portion 2 of the frame. The shafts are provided with a swingle-tree 8, and a seat 9 is positioned over the frame.

A series of hangers 10, having collars 11 and set-screws 12, are adjustable on the frame portion 2 longitudinal of the latter, and the hangers have flanges 13 depending therefrom provided with apertures 14, in which the forward end of the standards 15 are pivoted according to the height desired to be given the chopper-blades 16. A guide-rod 17, secured in ears 17^a, extends through the hangers 10 to keep the latter at a proper angle relative to the frame portion 2, and the handles 18 are pivoted on the rod 17. The handles are connected by a plate 19, and are secured to the adjusting-bar 20, having apertures 21 for adjusting the handle and arm-keepers 22 and 22^a, respectively. The central standard 23 and its hanger 24 are fixed against lateral movement, so as to give the central blade 25 a permanent position central of the machine.

Interposed between the rear frame portion 1 and the bar 20 are spiral springs 26 to permit the chopper-blades to be depressed and to retract the blades, and said portion 1 is provided with depending hooks 27 to engage the ends of the bar 20 and suspend the blades in transportation or when the machine is not in operation.

In chopping cotton with this machine it is driven across the cotton-rows, and as it crosses the cotton the handles are depressed to effect the chopping, and the springs retract the standards and blades and hold the latter suspended during the interval of passage from one row to another. When the soil is to be cultivated between the cotton, suitable hoes are substituted for the blades and the handles are depressed during the passage from one row to another, and the springs retract the

standards and suspend the hoes as they pass over the cotton.

It will be seen that the whole machine is of light, inexpensive, and durable character, that the parts may be connected and disconnected in an expeditious manner, that the space between the standards may be varied as desired or as occasion may demand without detaching them, and that one or more standards may be employed on each side of the central arm, according to the character of the work demanded of the machine.

I do not wish to be understood as restricting myself to any particular size of machine or to the character of material of which the several parts are constructed. Neither do I wish to confine myself to any particular number of standards, blades, and hoes, nor to the special arrangement or location of the handles, as they may be changed from the position shown or entirely dispensed with under certain conditions.

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

1. In a cotton-cultivator, the combination, with the cultivator-frame having wheel-axles, and a bar in the rear of the axles and having springs suspending it from the frame, of the hangers certain of which are adjustable laterally on the frame and all of which depend forward of the axles, and the standards provided with blades and adjustable laterally on the bar and vertically on the hangers.

2. In a cotton-cultivator, the combination, with the cultivator-frame having wheel-axles, and a bar in the rear of the axles and having

springs suspending it from the frame, of the hangers certain of which are adjustable laterally on the frame and all of which depend forward of the axles, the standards provided with blades and adjustable laterally on the bar and vertically on the hangers, and a guide-rod extending through the hangers.

3. In a cotton-cultivator, the combination, with the cultivator-frame, standards having suitable blades, a bar in which certain of the standards are adjustable laterally, and springs suspending the bar from the frame, of the hangers certain of which are adjustable laterally on the frame and all of which have the standards pivoted therein, a guide-rod extending through the hangers and having its ends secured to the frame, and the hooks hanging from the frame to engage the said bar.

4. In a cotton-cultivator, the combination, with the cultivator-frame, a hanger fixed thereto and depending centrally therefrom, a central standard pivoted in the hanger, a series of hangers adjustable lengthwise on the frame, and the standards pivoted in these hangers, of the guide-rod extending through the hangers, a bar having adjustable keepers to hold the said arms to the bar, springs connecting the bar with the frame, and the handles pivoted on the guide-rod and secured to the said bars, as set forth.

In witness whereof I hereunto set my hand in the presence of two witnesses.

SANFORD C. POWE.

Witnesses:

J. D. DONALD,
F. H. POWE.