

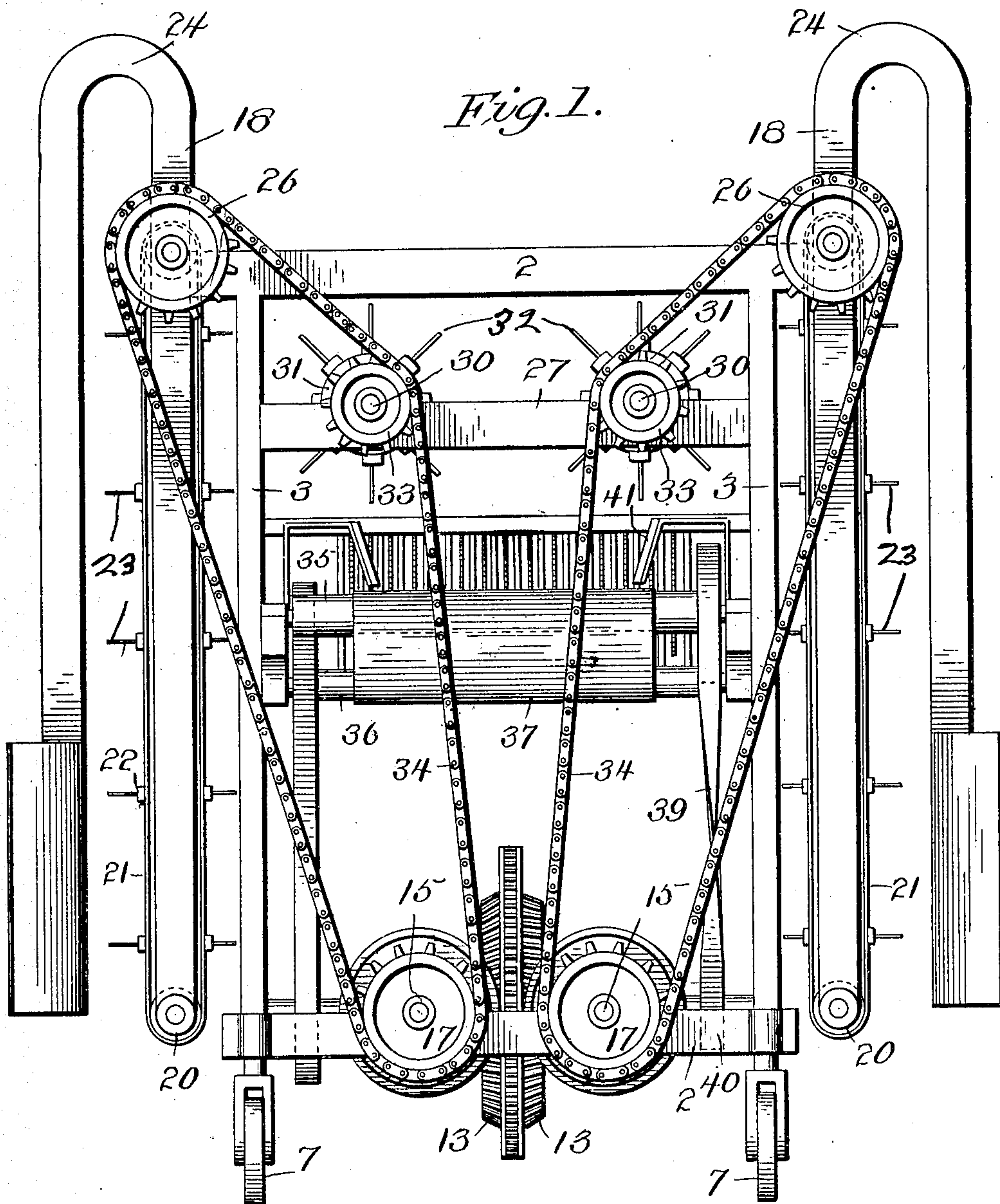
No. 885,606.

PATENTED APR. 21, 1908.

J. S. GLOVER.
COTTON PICKER.

APPLICATION FILED MAR. 2, 1907.

4 SHEETS—SHEET 1.



WITNESSES:

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J. M. Moore

INVENTOR

James S. Glover
By *Soule & Co.*
Attorney

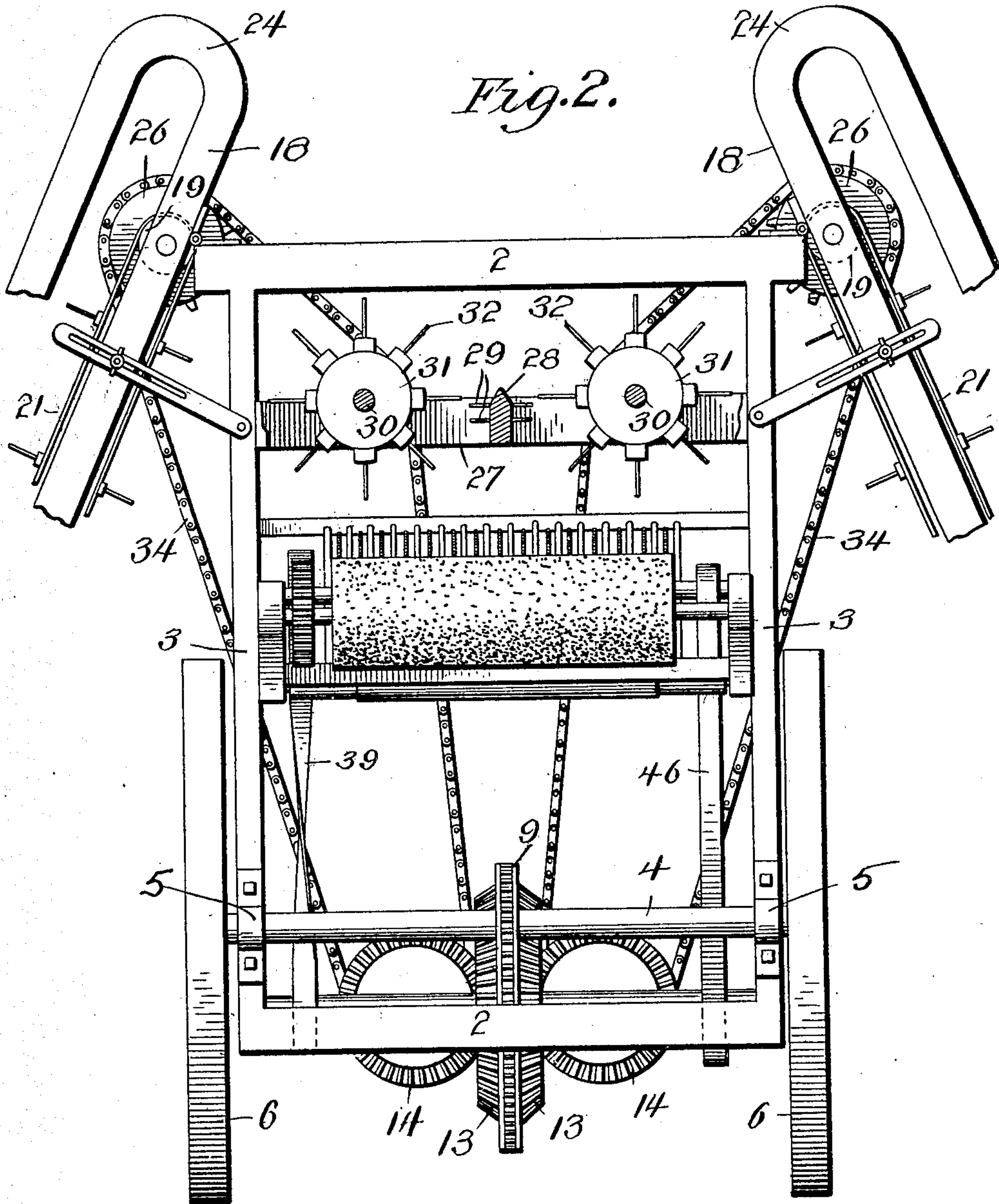
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4 SHEETS—SHEET 3.

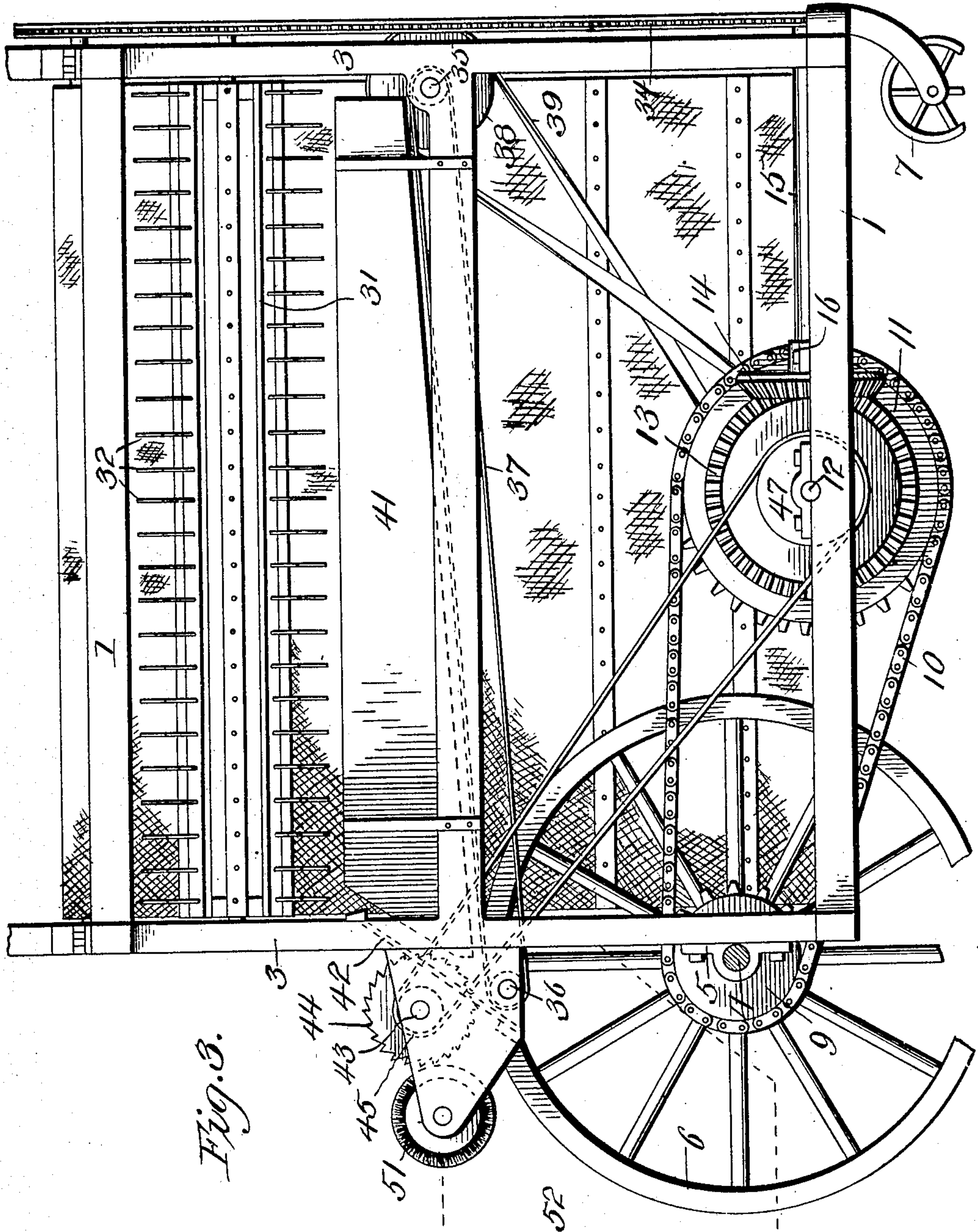


Fig. 3.

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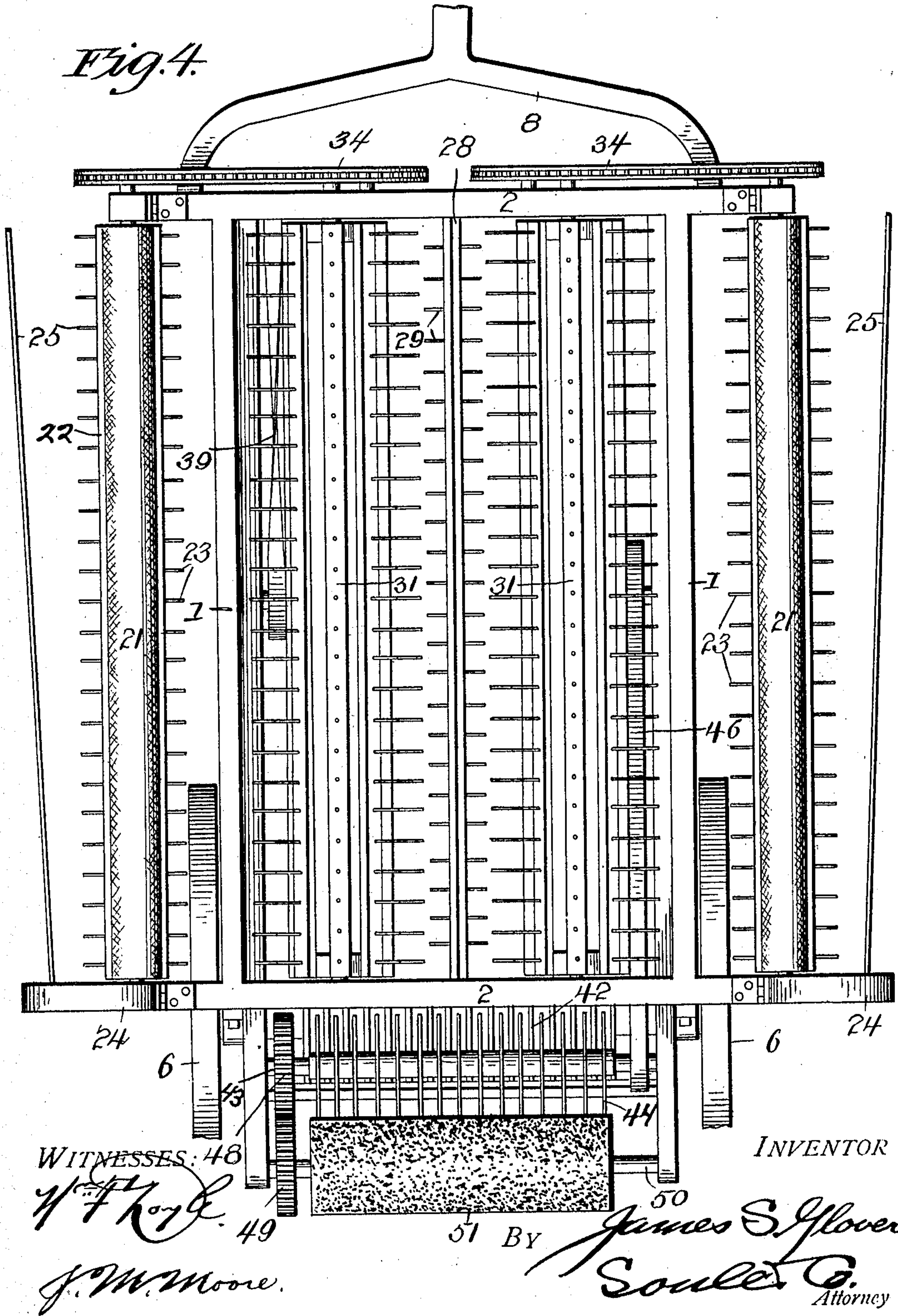
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4 SHEETS—SHEET 4.



UNITED STATES PATENT OFFICE.

JAMES S. GLOVER, OF MINNICK, TENNESSEE.

COTTON-PICKER.

No. 885,606.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed March 2, 1907. Serial No. 360,129.

To all whom it may concern:

Be it known that I, JAMES S. GLOVER, a citizen of the United States, residing at Minnick, in the county of Obion and State of Tennessee, have invented certain new and useful Improvements in Cotton-Pickers, of which the following is a specification.

This invention relates to cotton pickers, and has for its object to pick the cotton from the bushes, to break the bolls, remove the trash and deposit the cotton in a suitable receptacle.

With these objects in view and such others as may hereinafter appear, my invention consists in the particular construction of the various parts, and in the novel manner of combination and arrangement of said parts, all of which will be more fully described and specifically pointed out in the appended claims.

In the drawings forming a part of this specification:—Figure 1, is an end elevation looking toward the rear end of the machine, Fig. 2, is a similar view looking in the opposite direction, Fig. 3, is a side elevation, with one of the conveyers removed, and Fig. 4, is a top plan view.

Referring by numerals to the drawings, 1 represents parallel and oppositely disposed upper and lower side sections, 2 parallel and oppositely disposed upper and lower end sections connecting the upper and lower side sections, and 3 the corner sections connecting the upper and lower side and end sections, so as to form a rectangular frame. This frame is provided upon its rear end with a revolving horizontal shaft 4, mounted in bearings 5, and having keyed thereupon suitable wheels 6, and the front end is supported by colter wheels 7, and further provided with a yoke 8, to which the draft may be attached.

Keyed upon the axle 4, is a sprocket wheel 9, connected by a sprocket chain 10, to a sprocket wheel 11, keyed upon a transverse shaft 12, journaled in suitable bearings about the center of the lower side sections. The sprocket wheel 11 is provided upon its respective sides with beveled gears 13, in mesh with beveled gears 14, mounted upon parallel shafts 15, journaled in the lower end section of the frame and a transverse brace or support 16. The free ends of the shafts 15, being provided with sprocket wheels 17, the object of which will hereinafter appear.

Pivoted to the upper end sections upon the respective sides of the frame and made adjustable thereupon, are corresponding conveyer frames 18, having mounted therein parallel rollers 19 and 20, connected by a belt or apron 21, arranged upon which is a series of transverse strips 22, carrying rows of fingers 23; the sides of the conveyer frames are curved as shown at 24, and provided upon their prolonged free ends with deflecting guide plates 25, adapted to bring the cotton in contact with the fingers 23. The ends of the rollers 19, are provided with sprocket-wheels 26, the object of which will be hereinafter explained.

Mounted upon transverse supports 27, at each end of the frame is a central bar 28, having oppositely disposed rows of fingers 29, and mounted upon each side thereof upon a shaft 30, is a longitudinal brake drum 31, carrying rows of fingers 32, adapted to intermesh with the fingers 29. Keyed upon the ends of the shafts 30, are sprocket wheels 33, connected by sprocket chains 34, to the sprocket wheels 17, and 26.

Arranged beneath the brake drums are transverse rollers 35 and 36, connected by a belt or apron 37. One of the rollers 35 is somewhat elevated so as to incline the apron toward the rear end of the frame, and is provided with a pulley 38, connected by a twisted belt 39, to a pulley 40, keyed upon the shaft 12, the object being to cause the apron to travel toward the rear end of the frame. Arranged upon each side of the apron 37, is a guard 41, adapted to prevent the cotton from falling therefrom.

Adjacent to the roller 36, is a comb 42, which is so arranged as to leave sufficient space for the trash to pass down between itself and the roller, and mounted in suitable bearings adjacent to the comb is a transverse shaft 43, carrying a series of saws 44, which revolve between the teeth of the comb. The shaft 43 being provided upon one end with a pulley 45, connected by a belt 46, to a pulley 47, keyed upon the shaft 12, and upon the other end with a cog wheel 48, in mesh with a cog wheel 49, keyed upon a transverse shaft 50, carrying a rotary brush 51, in contact with the teeth of the saws and is adapted to brush the cotton from the saws down into a suitable receptacle 52, carried by and detachably secured to the frame.

Having thus described the various features of my invention, what I claim as new and desire to secure by Letters Patent, is:

1. In a cotton picker, conveyers pivoted
5 to the respective sides of the frame, series of
fingers carried by the conveyers, means for
bringing the cotton in contact with the fin-
gers, longitudinal brake drums mounted
10 within the frame, means for driving the con-
veyers and brake drums, a longitudinal con-
veyer arranged beneath the brake drums, a
comb adjacent to the rear end of the longi-
tudinal conveyer, saws adapted to revolve
15 between the teeth of the comb, a brush in en-
gagement with the teeth of the saw, and
means for driving the said longitudinal con-
veyer, saws and brush, substantially as speci-
fied.

2. In a cotton picker, a frame mounted
20 upon wheels, conveyers pivoted upon the re-
spective sides of the frame and made adjust-
able thereupon, guides carried by the convey-
ers, longitudinal brake drums mounted within
the frame, means for driving the said con-
25 veyers and brake drums, a longitudinal con-
veyer arranged beneath the brake drums, a
comb arranged in juxtaposition to the longi-
tudinal conveyer, a series of saws adapted to

revolve between the teeth of the comb, a ro-
tary brush engaging the teeth of the saws, 30
means for driving the said longitudinal con-
veyer, saws and brush, substantially as shown
and for the purpose specified.

3. In a cotton picker, a frame mounted
upon wheels, conveyers pivoted upon the re- 35
spective sides of the frame, rows of fingers
carried by the conveyers, means for adjust-
ing the receiving ends of the conveyers to-
ward and away from the sides of the frame,
deflecting guides carried by the conveyers, 40
longitudinal brake drums mounted within
the frame, means for driving the said con-
veyers and brake drums, a longitudinal con-
veyer arranged beneath the brake drums, a
comb arranged in juxtaposition to the rear 45
end of the longitudinal conveyer, a series of
saws adapted to revolve between the teeth
of the comb, a rotary brush engaging the
teeth of the saws, and means for driving the
said longitudinal conveyer, saws and brush, 50
substantially as specified.

JAMES S. GLOVER.

Witnesses:

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