

No. 774,941.

PATENTED NOV. 15, 1904.

B. A. HENLEY.
COTTON CHOPPER.

APPLICATION FILED MAY 17, 1904.

NO MODEL.

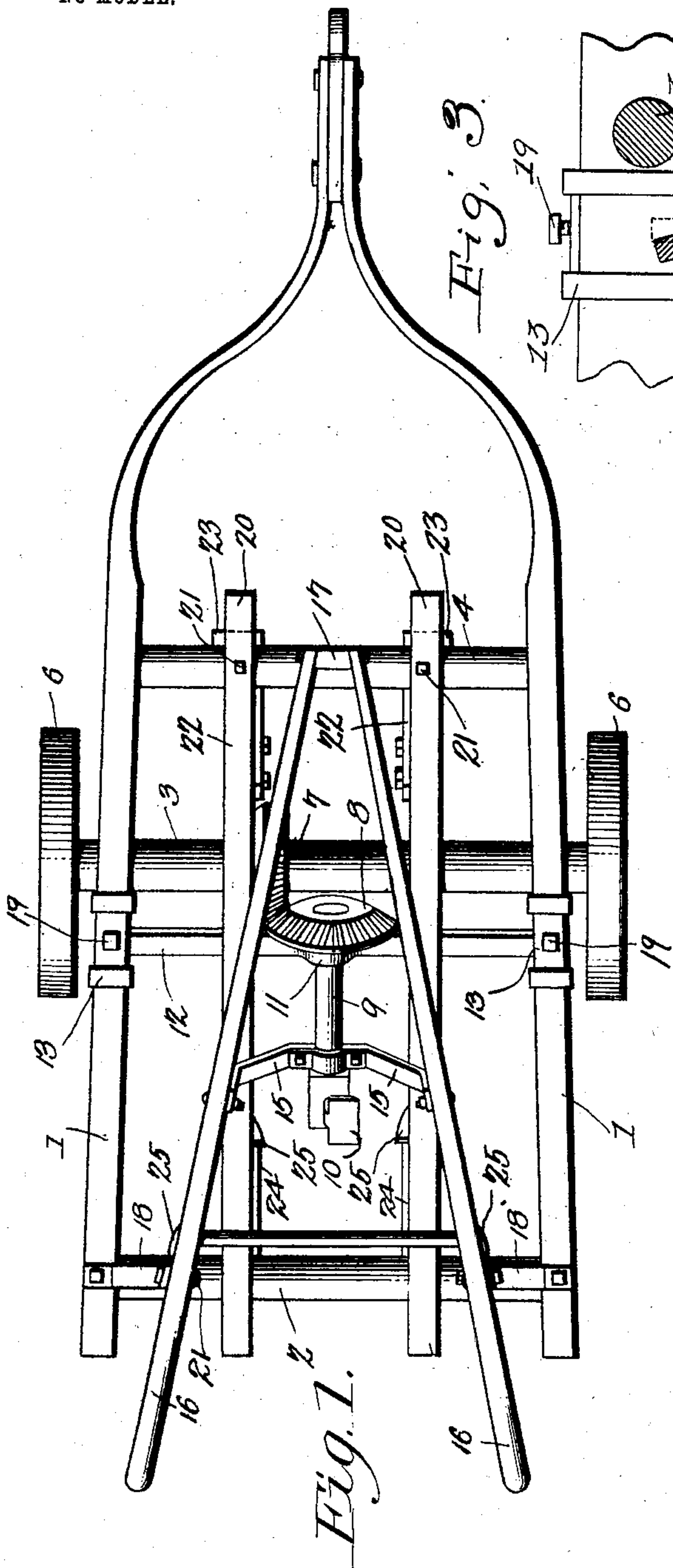


Fig. 1.

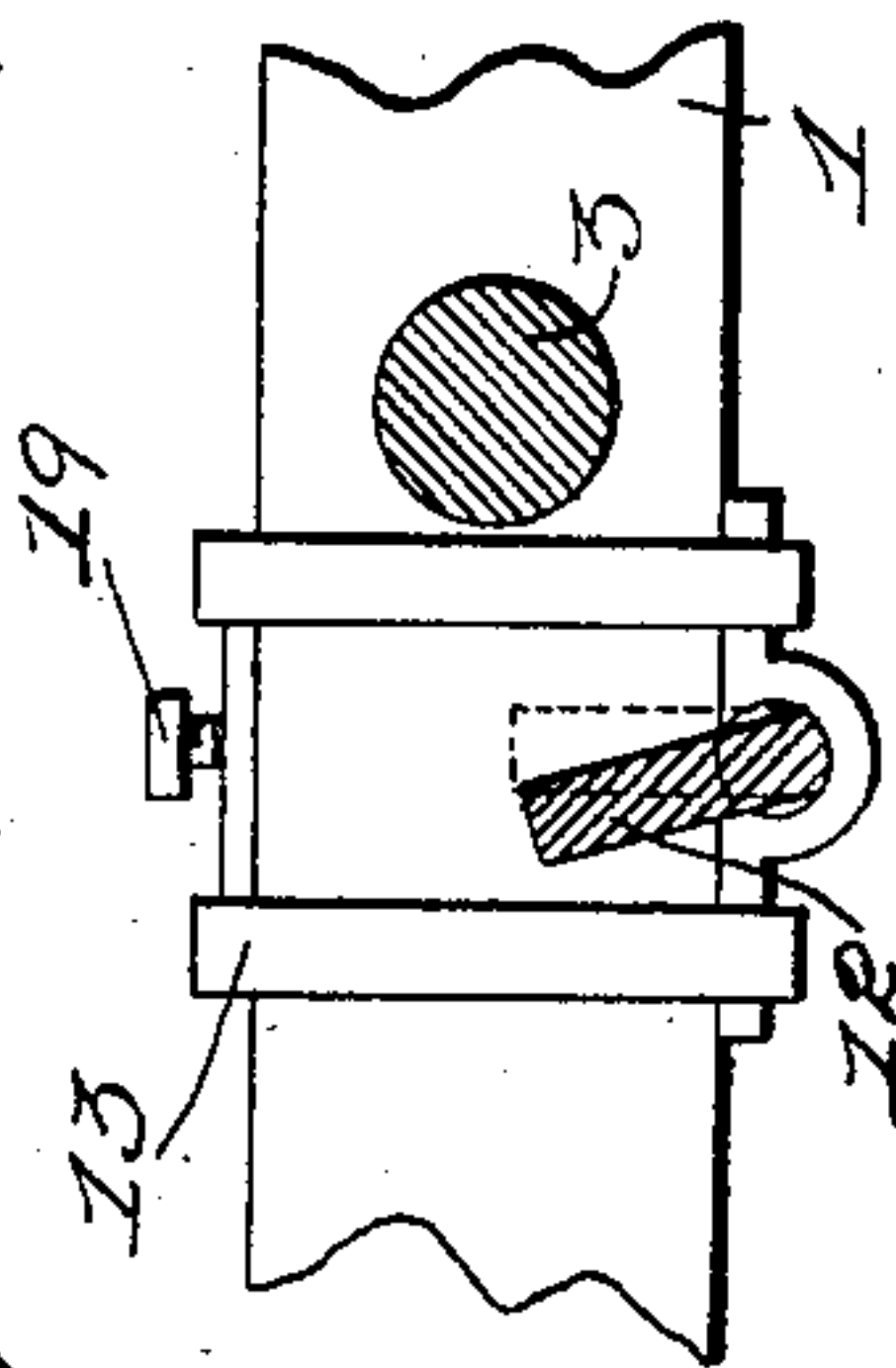


Fig. 3.

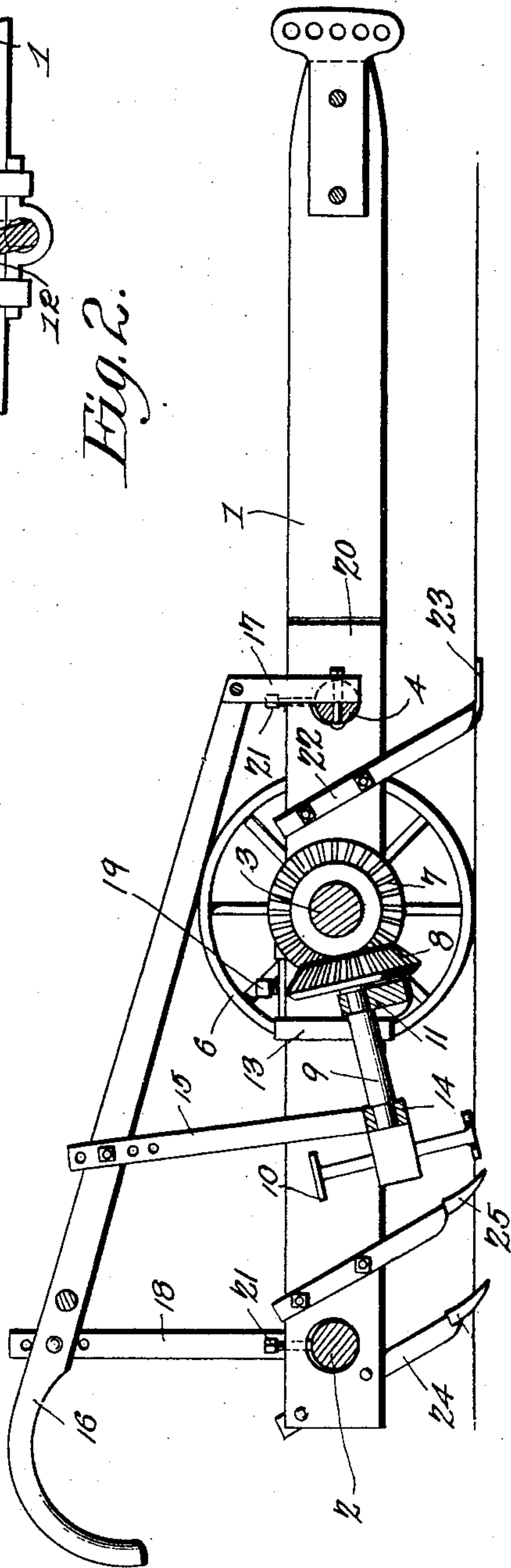


Fig. 2.

Witnesses
E. J. [Signature]
J. S. [Signature]

Burreal H. Henley
Inventor:
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UNITED STATES PATENT OFFICE.

BURREAL ANDREW HENLEY, OF CAVE CITY, ARKANSAS.

COTTON-CHOPPER.

SPECIFICATION forming part of Letters Patent No. 774,941, dated November 15, 1904.

Application filed May 17, 1904. Serial No. 208,463. (No model.)

To all whom it may concern:

Be it known that I, BURREAL ANDREW HENLEY, a citizen of the United States, residing at Cave City, in the county of Sharp and State of Arkansas, have invented a new and useful Cotton-Chopper, of which the following is a specification.

My invention relates to cotton-choppers, and has for its objects to produce a device of this character which will be comparatively simple of construction, efficient in operation, one in which the scraper-blades and plow and cultivator-blades may be readily adjusted laterally toward and from the cotton-plants, and one in which the shaft carrying the rotary chopper-blades may be readily adjusted vertically to vary the depth of the cut of the choppers.

To these ends the invention comprises the novel details of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a top plan view of a cotton-chopper constructed in accordance with my invention. Fig. 2 is a central longitudinal sectional elevation through the same on the line 2 2, Fig. 1. Fig. 3 is a detail view, partly in section and partly in elevation, of the rocking bar, which supports one end of the chopper-shaft.

1 1 indicate the side bars, which extend longitudinally of the machine in parallel relation and are connected at their rear ends by a transverse cylindrical bar 2 and forward of the axle or drive-shaft 3 by means of a transverse cylindrical bar 4. The bars 1, which are of any suitable metal, are reduced in thickness forward of the transverse bar 4 and converge to a point of meeting a suitable distance in advance of the bar 4 and have secured between their front meeting ends a clevis 5.

The main axle or driving-shaft 3 is journaled for rotation in suitable bearings formed in the side bars 1 and has mounted at its opposite ends ground-wheels 6 and at its longitudinal center a bevel-gear 7, which is fixedly associated with the shaft in any suitable manner for rotation therewith and is adapted to mesh with a similar gear 8, fixed to the front end of a short longitudinally-disposed shaft 9, which

carries at its rear end suitable chopping-blades 10. The shaft 9, which is driven from the main shaft 3 through the medium of the gears 7 and 8, is journaled at its front end in a bearing 11 of a transverse rocking bar 12, which latter is journaled at its ends in bearings 13, adjustably associated with the side bars 1 of the machine. The shaft 9 is further journaled in and supported by a floating bearing 14, connected by suitable straps 15 with the handle-bars 16. The handle-bars 16 are pivoted at their front ends to a standard 17, arising vertically from the front bar 4, and at their rear ends are sustained by braces 18, bolted or otherwise secured to the side bars 1 and connected at their upper ends to the handle-bars by set-screws or other suitable means which will permit of the rear ends of the bars being readily adjusted vertically for the purpose of moving the chopping-blades 10 toward and from the ground to vary the depth of cut of the same. The bearings 13, which sustain the rocking bar 12, are, as before stated, readily adjustable longitudinal of the frame-bars 1, and this for the purpose of moving the gear 8 into and out of mesh with the gear 7 to throw the chopping-blades into and out of operation, as will be readily understood, the bearings 13 being held in their various positions by means of set-screws 19, which engage the upper faces of the bars 1.

20 20 indicate a pair of supporting-beams which extend longitudinally of the machine in parallel relation at opposite sides of its longitudinal center. These beams, which are sustained at their ends by the transverse bars 2 4, are adapted for free movement longitudinally of said bars, or, in other words, in a direction transversely of the machine, and are held in their adjusted positions by means of set-screws 21, which are tapped vertically through the bars 20 for engagement with the transverse bars 2 4. Attached to the front ends of the beams 20 in any suitable manner for adjustment in a vertical plane are the shanks or standards 22 of scraping-blades 23, while cultivator-blades 24 are similarly attached to the beams at their rear ends.

25 25 are suitable plows sustained by the

beams 20 in advance of the rear bar 2, the plows being attached to the beams in any suitable manner for adjustment vertically. Thus it will be seen that the beams 20 serve to support the scraper-blades, the plows, and the cultivator-blades, and that the beams may be readily adjusted transversely of the machine for moving these blades toward or from the plants, and it is to be especially noted that the forward ends of the beams may be moved inward or outward for similarly adjusting the scrapers without changing the positions of their rear ends relatively.

From the foregoing it will be seen that I produce a device which will at once be simple of construction, efficient in operation, and one in which the various operative parts may be quickly adjusted as circumstances require, and in attaining these ends it is to be understood that I do not limit myself to the precise details herein shown and described inasmuch as minor changes may be made therein without departing from the spirit of my invention.

Having thus described my invention, what I claim is—

In a cotton-chopper, the combination with a frame having side bars, of a rotatable drive-shaft journaled in the frame and provided with ground-wheels, a gear fixedly associated with the shaft, vertically-adjustable handle-bars, a floating bearing connected to and adjustable therewith, a rocking bar, a rotary driven shaft journaled in the floating bearing and rocking bar and provided with a gear meshing with the first-named gear and with chopper-blades and bearings for the rocking bar mounted upon the side bars of the frame and adjustable longitudinally thereof for moving the gears into and out of mesh.

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

BURREAL ANDREW HENLEY.

Witnesses:

WM. HENSON,

WM. HALE.