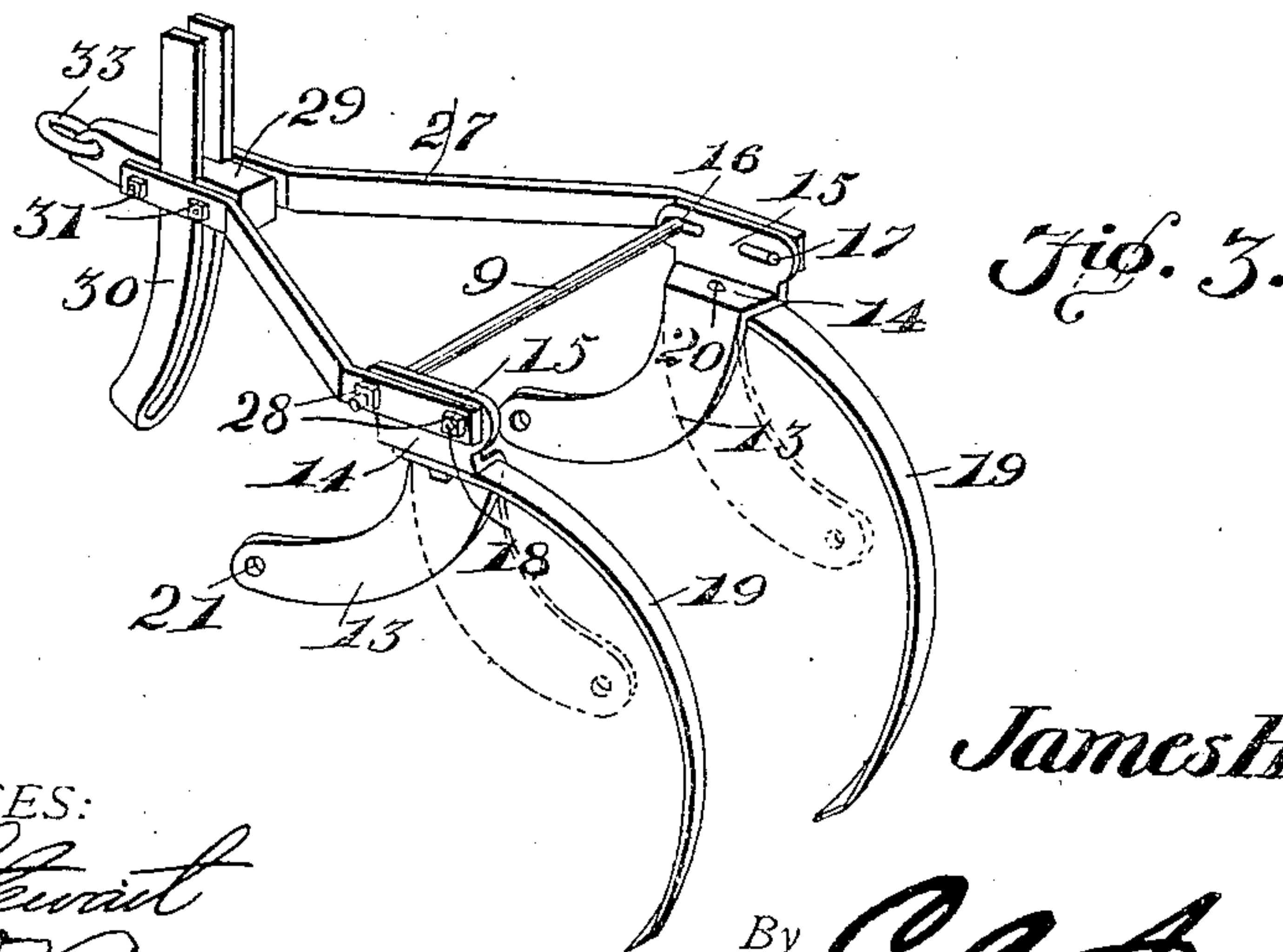
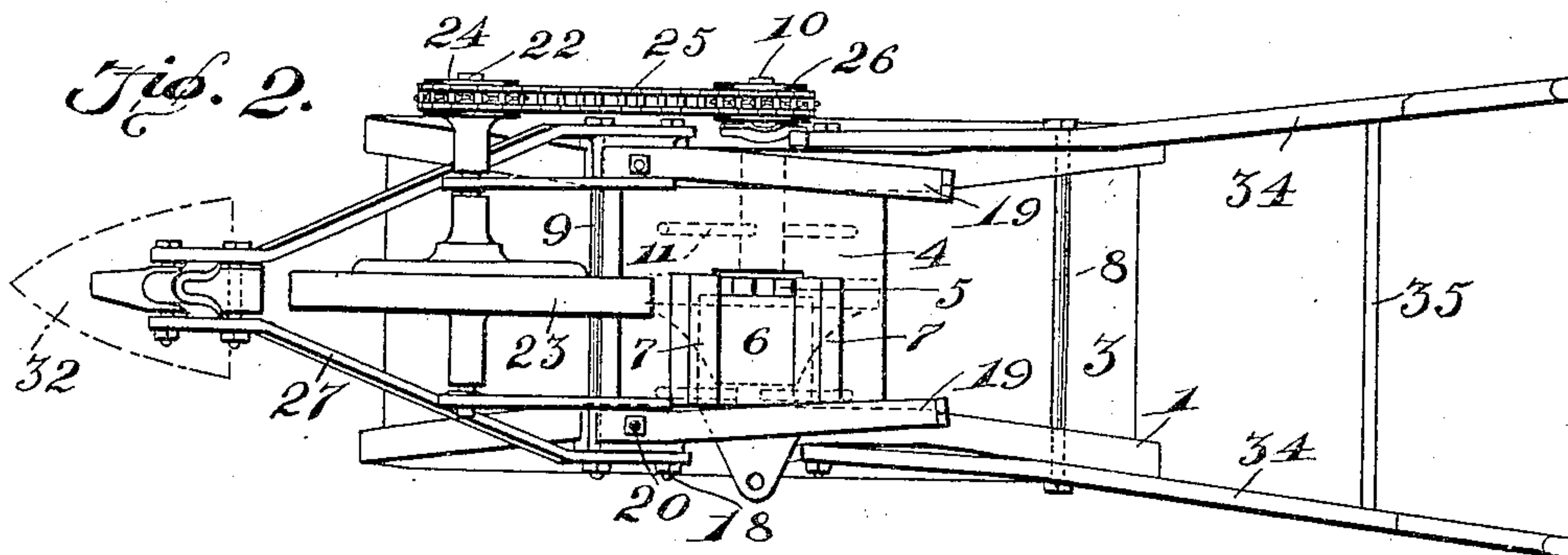
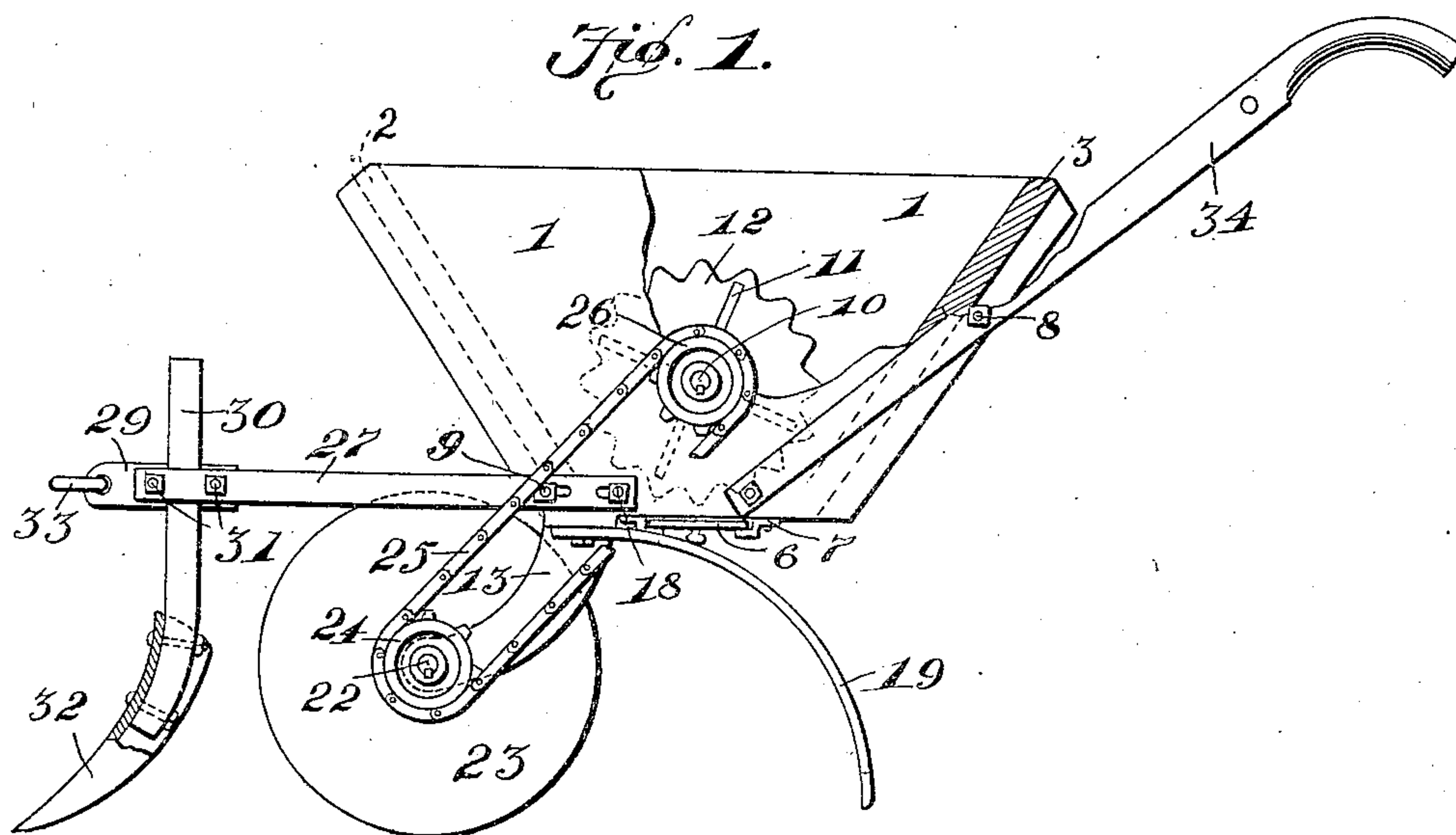


No. 835,610.

PATENTED NOV. 13, 1906.

J. H. GOODWIN.
COTTON PLANTER.
APPLICATION FILED APR. 10, 1906.



WITNESSES:
E. J. Stewart
Wm. Ragger

James H. Goodwin
INVENTOR.

By *Chas. H. Snow*
ATTORNEYS

UNITED STATES PATENT OFFICE.

JAMES HENRY GOODWIN, OF SIMPSONVILLE, SOUTH CAROLINA.

COTTON-PLANTER.

No. 835,610.

Specification of Letters Patent.

Patented Nov. 13, 1906.

Application filed April 10, 1906. Serial No. 310,994.

To all whom it may concern:

Be it known that I, JAMES HENRY GOODWIN, a citizen of the United States, residing at Simpsonville, in the county of Greenville and State of South Carolina, have invented a new and useful Cotton-Planter, of which the following is a specification.

This invention relates to cotton-planters, and it has for its objects to simplify and improve the construction and operation of this class of machines, special features of the invention residing in the improved construction of the wheel-carrying brackets, in providing said brackets with shoulders to support the drags or coverers, in improved means for assembling the wheel-holding brackets with the seedbox or hopper, and in an improved manner of assembling the beam-arms with the hopper.

With these and other ends in view, which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations, and modifications within the scope of the invention may be resorted to when desired.

In the drawings, Figure 1 is a side elevation, partly in section, of a cotton-planter constructed in accordance with the principles of the invention. Fig. 2 is a bottom plan view of the same. Fig. 3 is a perspective detail view showing the wheel-carrying brackets and the parts connected therewith detached.

Corresponding parts in the several figures are indicated throughout by similar characters of reference.

The hopper or seedbox of the improved planter is of ordinary construction, including the side members 1 1 and front and rear end members 2 and 3, together with the bottom member 4, which latter is provided with a slot or aperture 5, adapted to be partly or wholly obstructed by means of a slide 6, supported by means of cleats 7. The parts of the hopper are partly assembled by means of trans-

verse bolts or clamping members 8 and 9, the former of which connects the side members 1 1 in rear of the rear member 3, while the bolt 9 connects the side members 1 1 in front of the front member 2 of the seedbox or hopper, the side members being extended somewhat in front and in rear of the front and rear members, as will be readily seen. Auxiliary fastening members, such as nails or screws, may be used in assembling the parts of the box, if desired.

The side members 1 1 of the seedbox or hopper are provided with bearings for a transverse shaft 10, which is provided within the seedbox with radially-extending fingers 11, constituting stirrers or agitators. Said shaft also carries a peripherally-toothed seed wheel or disk 12, which serves to expel the seed through the slot 5 in the bottom of the seedbox in the usual manner, the escape of seed being regulated by means of the slide 6.

The wheel-carrying brackets 13 13 are provided with offsets or shoulders 14, adapted to engage the under edges of the side members of the seedbox, and with upwardly-extending lugs or flanges 15, adapted to lie flat against the outer sides or faces of the side members 1 1. The lugs or flanges 15 15 are provided with slots 16 for the passage of the extremities of the assembling-bolt or connecting-rod 9, upon which the brackets 13 will thus be partly supported. The lugs or flanges 15 are provided with additional slots 17 for the passage of additional bolts or fastening members 18. The drags or covering members 19 are secured upon the under sides of the shoulders or offset portions 14 of the wheel-carrying brackets by means of bolts or rivets 20, and the shanks or upper portions of said drags or covering members contact directly with the outer sides or faces of the wheel-carrying brackets, whereby the said drags or covering members are braced and reinforced and held very securely in position for operation. The lower forward ends of the brackets 13 are provided with apertures 21, constituting bearings for a shaft or axle 22, carrying a wheel 23 and a sprocket-pinion 24, which latter is connected by a link belt 25 with a sprocket-wheel 26 upon the shaft 10 in the seedbox or hopper, thus transmitting motion to said shaft. The brackets 13 are preferably of arcuate shape, as shown in the drawings, and said brackets may be re-

versed end for end and transposed from one side to the other, so that the wheel-carrying extremities of said brackets may be disposed in a forward direction, as shown in full lines, or in a rearward direction, as shown in dotted lines, in Figs. 1 and 3 of the drawings. The carrying-wheel may thus be disposed in a forward or in a rearward direction, as may be found preferable and desirable. Owing to the presence of slots 16 17 in the lugs or flanges 15, connected with the brackets 13, said brackets may be adjusted to take up slack in the link belt 25, as will be readily understood.

The beam of the improved planter is composed of a pair of arms 27, which are provided with apertures whereby they are mounted upon the assembling bolt or rod 9 and upon the bolts or fastening members 18, whereby the wheel-carrying brackets are secured upon the hopper. The bolts 9 and 18 are provided at their outer extremities with nuts 28, whereby the parts are securely assembled.

The beam-arms 27 converge forwardly and are spaced apart at their front ends by a spacing-block 29, which latter is straddled by the U-shaped standard 30, said standard being secured in position adjustably by means of the transverse clamping-bolts 31. The standard 30 carries a blade or furrow-opener 32, which is of ordinary construction. A link 33, connected with the spacing-block, serves for the attachment of the draft.

The machine is guided in operation by means of handles 34, spaced apart by a rung 35 and connected with the hopper by means of the clamping bolt or rod 8 and by auxiliary fastening members.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of this invention will be readily understood. The wheel-carrying brackets and the beam-arms are connected very securely with the hopper by means of the bolt or connecting-rod 9 and the auxiliary bolts 18, and said brackets also serve to securely support the drags or covering members. The general construction of the device is simple and inexpensive, and it has been found to be thoroughly efficient in practical operation.

Having thus described the invention, what is claimed is—

1. In a cotton-planter, a hopper, wheel-carrying brackets having lugs or flanges bearing against the sides of the hopper, and an assembling member extending through the sides of the hopper and through the lugs or flanges of the wheel-carrying brackets.

2. A hopper having side members and end members clamped between the side members, wheel-carrying brackets having shoulders or offsets bearing against the lower edges of the side members, and lugs or flanges engaging

the outer faces of the side members, an assembling member extending through the side members and through the lugs or flanges of the wheel-carrying brackets, and auxiliary fastening members extending through the lugs or flanges and engaging the side members of the hopper.

3. A hopper having side members and end members clamped between the side members, wheel-carrying brackets having shoulders or offsets bearing against the lower edges of the side members and flanges engaging the outer faces of the side members, drags having shanks secured upon the under sides of the shoulders or offsets, contacting with and reinforced by the wheel-carrying brackets, an assembling-rod extending through the side members of the hopper and through the flanges of the wheel-carrying brackets, and auxiliary fastening members extending through said flanges and engaging the side members of the hopper.

4. A hopper having side members and end members clamped between the side members, wheel-carrying brackets having shoulders or offsets bearing against the lower edges of the side members and flanges engaging the outer faces of the side members, an assembling-rod extending transversely through the side members of the hopper and through the flanges of the wheel-carrying brackets, beam-arms mounted upon the extremities of the assembling-rod, and auxiliary fastening members connecting the beam-arms and the lugs or flanges of the wheel-carrying brackets with the side members of the hopper.

5. A hopper having a transverse assembling-rod, wheel-carrying brackets having lugs or flanges engaging the extremities of the assembling-rod adjacent to the outer faces of the side members of the hopper, beam-arms engaging the extremities of the assembling-rod adjacent to the outer faces of the flanges of the wheel-carrying brackets, a spacing-block interposed between the forward ends of the beam-arms, a U-shaped standard straddling the spacing-block, and clamping-bolts connecting the beam-arms and extending through the spacing-block to secure the standard adjustably by clamping the limbs of said standard between the beam-arms and the proximate faces of the spacing-block.

6. In a planter, a hopper, arcuate, end for end reversible wheel-carrying brackets having ends or flanges bearing against the sides of the hopper and provided with slots, and assembling members engaging the sides of the hopper through the slots in the lugs or flanges of the wheel-carrying brackets.

7. In a planter, a hopper, arcuate, end for end reversible wheel-carrying brackets having ends or flanges bearing against the sides of the hopper and provided with slots, assembling members engaging the sides of the hop-

per through the slots in the lugs or flanges of
the wheel-carrying brackets, in combination
with a wheel-carrying axle journaled in the
supporting-brackets, an agitator-shaft jour-
5 naled in the sides of the hopper, sprocket-
wheels upon the two shafts, and a link belt
connecting the sprockets.

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

JAMES HENRY GOODWIN.

Witnesses:

W. G. ABERCROMBIE,
S. T. MOORE