

No. 729,063.

PATENTED MAY 26, 1903.

T. G. GORDON.
PEA HARVESTER.

APPLICATION FILED MAR. 5, 1903.

NO MODEL.

2 SHEETS—SHEET 1.

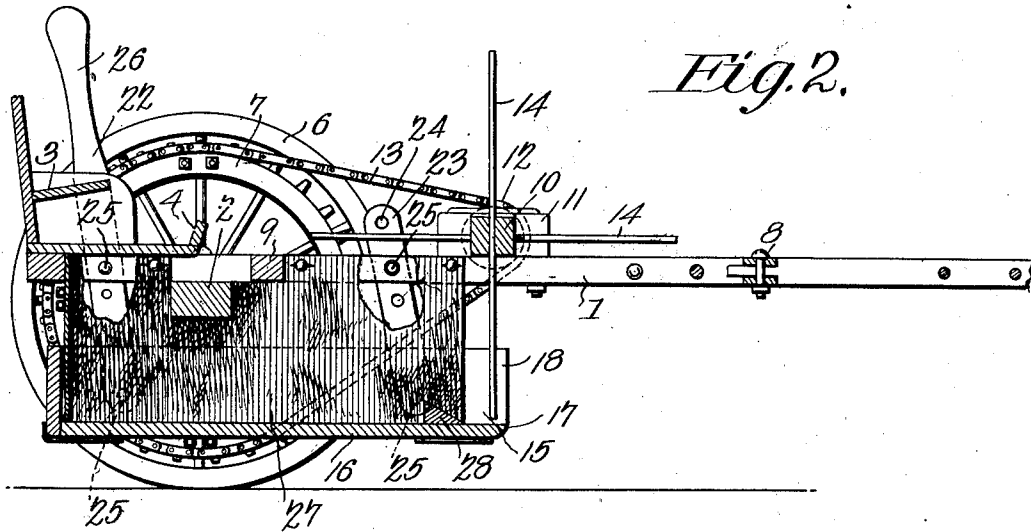


Fig. 2.

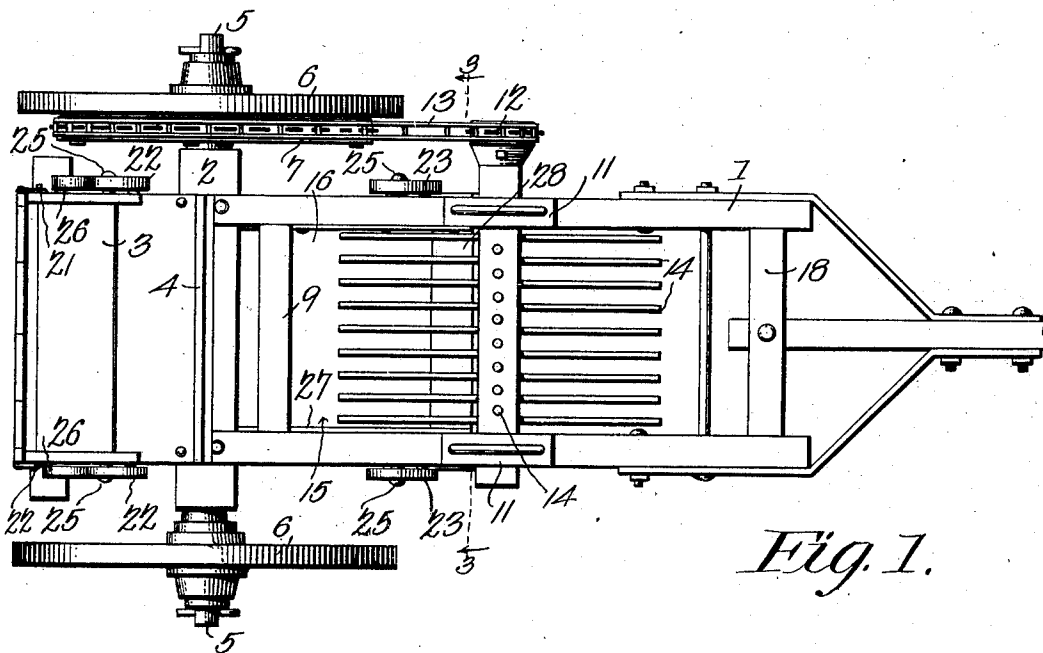


Fig. 1.

Witnesses
E. J. Stewart
Wm. Bagger

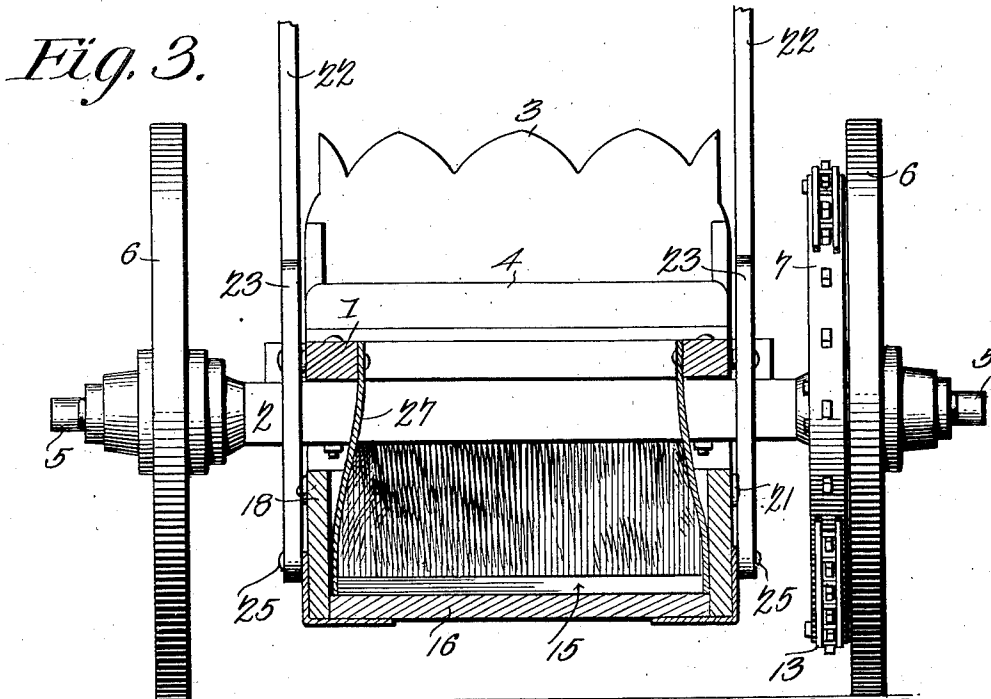
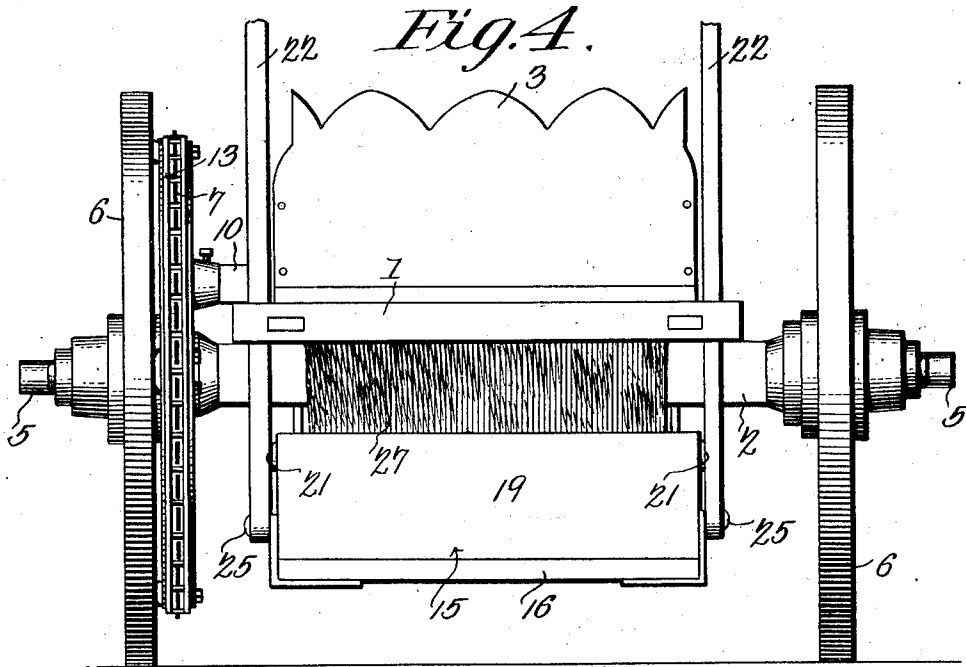
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Attorneys

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2 SHEETS—SHEET 2.



Witnesses
E. F. Stewart
Wm. Baggett

by *T. G. Gordon* Inventor:
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UNITED STATES PATENT OFFICE.

THOMAS G. GORDON, OF CAMDEN, NORTH CAROLINA.

PEA-HARVESTER.

SPECIFICATION forming part of Letters Patent No. 729,063, dated May 26, 1903.

Application filed March 5, 1903. Serial No. 146,401. (No model.)

To all whom it may concern:

Be it known that I, THOMAS G. GORDON, a citizen of the United States, residing at Camden, in the county of Camden and State of North Carolina, have invented a new and useful Pea-Harvester, of which the following is a specification.

This invention relates to that class of machines which are used for harvesting peas, beans, rice, and the like; and it has special reference to that class of pea-harvesters in which the peas are threshed or separated from the pods and caught in a receptacle adjustably supported from the frame of the machine.

The object of my invention is to provide a device of this class which possesses in a high degree the requisites of simplicity of construction, durability, and efficiency in operation; and with these ends in view the invention consists in the improved construction, arrangement, and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a top plan view of a pea-harvester constructed in accordance with the principles of my invention. Fig. 2 is a longitudinal sectional elevation of the same. Fig. 3 is a transverse sectional view taken on the line 3 3 in Fig. 1. Fig. 4 is a rear end view.

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

In the embodiment of the present form of my invention a rectangular frame 1, supported upon an axle 2, is provided near its rear end with a seat 3 and a footboard 4 for the driver. The axle is provided with spindles 5 for the transporting-wheels 6, to the outside of one of which is clamped a sprocket-wheel 7, by means of which motion is imparted to the driven parts of the machine.

The frame 1 supports intermediately between its front cross-bar 8 and a brace 9, which is disposed in front of the axle, a rotary shaft 10, which is mounted in boxes 11, supported upon the side beams of the frame, and which carries at one end a small sprocket-wheel 12, connected by a chain 13 with the large sprocket-wheel 7, said sprocket-wheels being so proportioned that when the machine is in operation a rotary motion at a high rate

of speed will be imparted to the shaft 10. The latter or that portion thereof which lies between the sides of the frame is square in cross-section, and extending through said squared portion at right angles to each other are a plurality of radiating arms or beaters 14, which are preferably set quite close together. These beaters may consist of metallic rods or wires having some degree of resiliency and at the same time possessed of sufficient stiffness and rigidity to exercise a threshing action upon the vines with which during the operation of the machine they come in contact.

15 designates a receptacle for the reception of the peas. This receptacle consists of a box having a bottom 16, which is beveled or sharpened at its front end, as indicated at 17, sides 18, and a rear piece 19, which is hingedly connected at its lower edge with the rear end of the bottom 16, so as to constitute a means of discharge. Fastening means, such as hooks 20 and staples 21, may be provided for the purpose of retaining the hinged rear end or door 19 in a closed position.

The receptacle 15 is suspended adjustably by means of links 22 23 from the sides of the frame 1, said suspending-links being each provided with a plurality of perforations 24 to receive the pivotal bolts 25. The links 22 are extended upwardly to form handles 26 adjacent to the seat 3 and capable of being manipulated by the driver for the purpose of raising or lowering the said receptacle 15 when the hulling-machine is in operation.

A curtain or covering 27, of canvas or other suitable material, is buttoned or otherwise suitably secured to the inside of the frame above the receptacle 15, into which the said curtain extends to prevent the peas or grain that are being harvested from escaping from the receiving-box. The lower front ends of the said curtain are secured by means of a detachable slat 28, which is sprung into position between the sides of the box near the front end of the latter, the lower front corners of the curtain being interposed between the sides of the box, and the ends of said slat will obviously be held securely in position in such a manner, however, as to permit the curtain to be detached whenever desired.

From the foregoing description, taken in connection with the drawings hereto annexed,

the operation and advantages of my invention will be readily understood. When the machine progresses over the field, a rapid rotary motion is imparted to the shaft 10, having the beaters 14, which by flexibly engaging the vines will strip and tear the pods and throw the peas into the box or receptacle 15. The slat 28 will prevent the peas from rolling out in a forward direction, and the curtain 27 will permit them to bank up in the rear part of the box or receptacle until a load has been accumulated, when by opening the end-gate 19 the load may be discharged at any suitable place of deposit.

It is obvious that the receptacle 15 may be raised or lowered, according to the kind and condition of the crop thus to be operated upon; also, that either end may be tilted upwardly, as may be found desirable, in order to accomplish the best results. The somewhat sharp front edge 17 of the receptacle 15 will cooperate with the beaters 14 to effect the desired end of separating the kernels or seed from the vines or stalks, and the latter will be left upon the ground, only the seeds being gathered, as will be readily understood.

The general construction of my improved pea-harvester, as will be seen from the foregoing description, is one of great simplicity, and at the same time the device will be found to be very efficient in operation.

I desire it to be understood that I do not necessarily limit myself to the precise structural details herein shown and described, but reserve the right to any changes, alterations, and modifications within the scope of my invention and which may be resorted to without departing from the spirit or sacrificing the utility of the same.

Having thus described my invention, I claim—

1. In a pea-harvester of the class described, the combination with a wheel-supported frame having a revoluble shaft provided with

radially-extending beaters, of a box or receptacle, links connecting said receptacle adjustably with the frame, and handles extending upwardly from the rear links, whereby the vertical adjustment of said receptacle may be effected during the operation of the machine.

2. In a pea-harvester of the class described, the combination of a wheel-supported frame, a revoluble shaft having radially-extending beaters, a receiving-box, links suspending said box adjustably from the frame, and a curtain connected with said frame and extending into the box.

3. In a pea-harvester of the class described, the combination with a wheel-supported frame having a revoluble shaft equipped with beaters, of a receiving-box suspended from said frame, said box being open at its front end, a curtain connected with said frame and extending into the box, and a beveled slat disposed detachably between the sides near the front edge of the box, the lower front corners of the curtain being interposed between the sides of the box and the ends of said slats.

4. In a pea-harvester of the class described, the combination of a wheel-supported frame, a shaft supported revolubly on said frame and having radially-extending beaters, means for transmitting high-speed motion from one of the transporting-wheels to said shaft, a receiving-box, links connecting said box adjustably with the sides of the frame, a hinged end-gate at the rear end of said box, and a curtain secured to the frame and depending into said box.

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

THOMAS G. GORDON.

Witnesses:

M. D. DOZIER,
L. F. WRIGHT.