

No. 626,229.

Patented June 6, 1899.

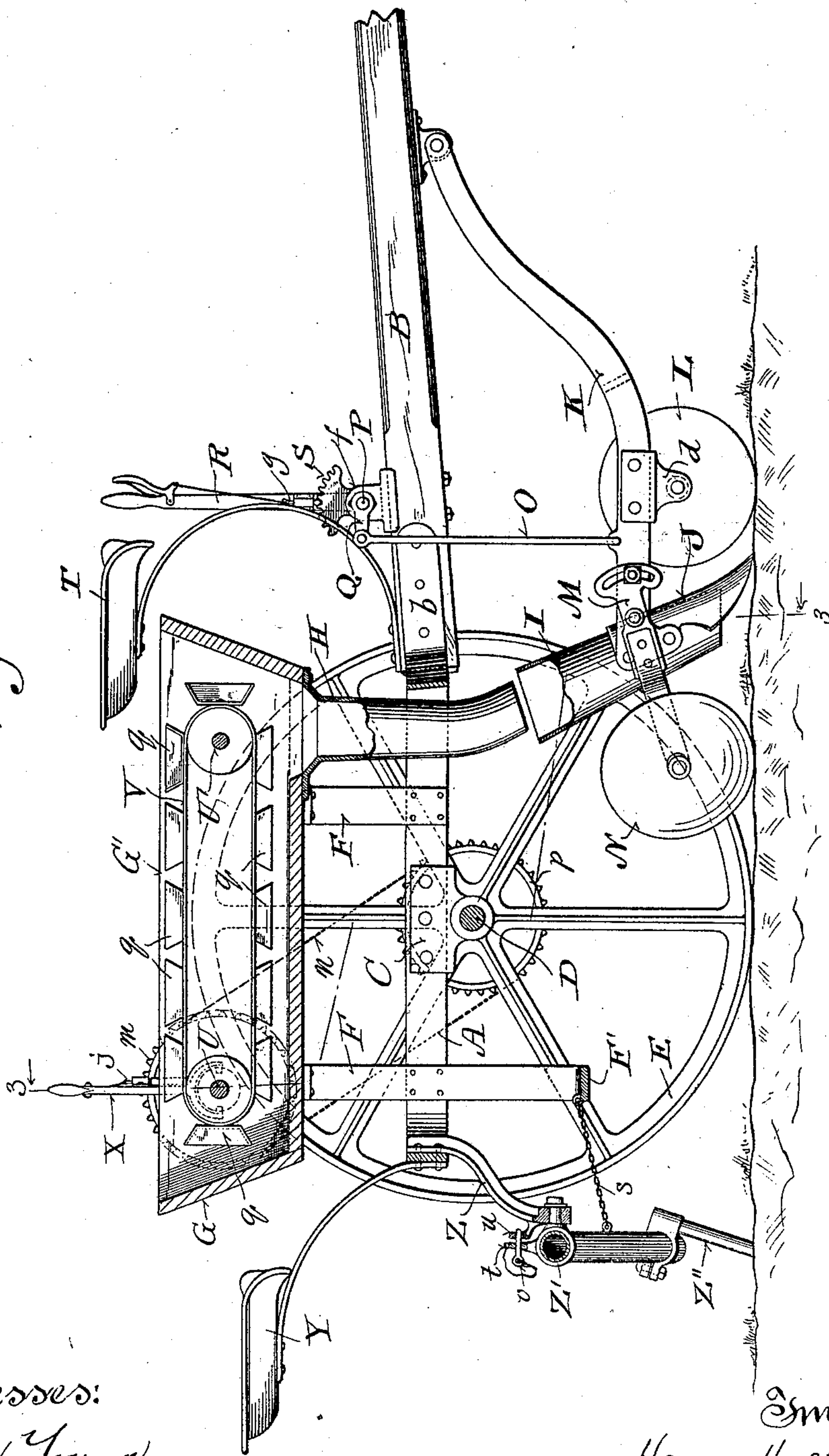
H. HALTER.  
POTATO PLANTER.

(Application filed Apr. 3, 1899.)

(No Model.)

3 Sheets—Sheet 1.

Fig. 1.



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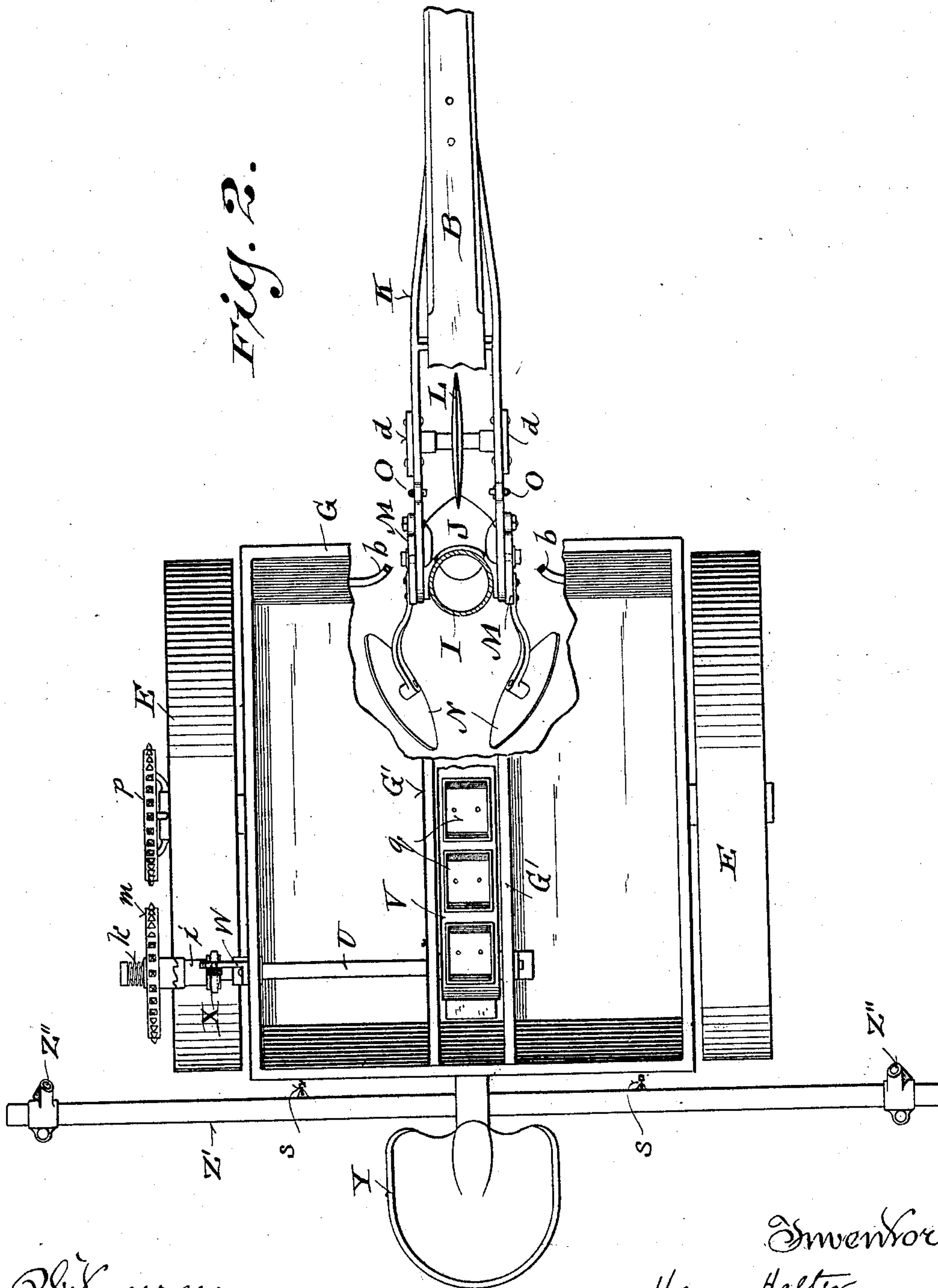
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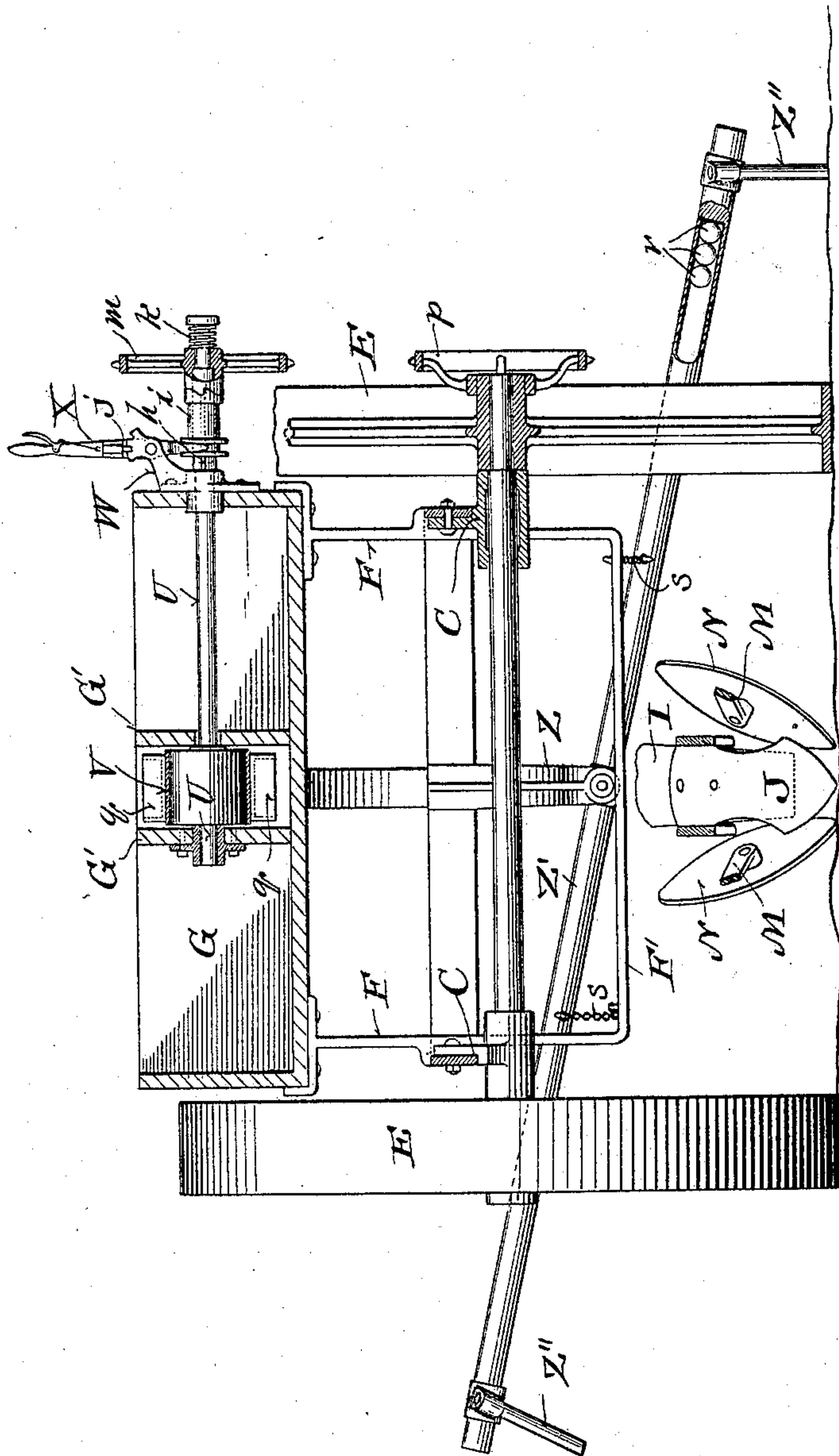
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3 Sheets—Sheet 3.

Fig. 3.



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# UNITED STATES PATENT OFFICE.

HENRY HALTER, OF OAKWOOD, WISCONSIN.

## POTATO-PLANTER.

SPECIFICATION forming part of Letters Patent No. 626,229, dated June 6, 1899.

Application filed April 3, 1899. Serial No. 711,515. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY HALTER, a citizen of the United States, and a resident of Oakwood, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Potato-Planters; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide a simple, economical, and efficient potato-planting machine; and it consists in certain peculiarities of construction and combination of parts hereinafter particularly set forth with reference to the accompanying drawings and subsequently claimed.

Figure 1 of the drawings represents a partly-sectional elevation of a potato-planting machine in accordance with my invention; Fig. 2, a plan view of the machine, partly broken; and Fig. 3, a partly-transverse sectional view indicated by lines 3 3 in Fig. 1.

Referring by letter to the drawings, A indicates an angular frame of metal, and forwardly-extending central ears *b* of this frame are bolted to a draft-tongue B, and likewise connected to the sides of said frame, midway of its front and back, are hangers C for the axle D of wheels E, the parts thus far described constituting a carriage. Riveted or otherwise rigidly secured to the sides of the frame are supports F for a box G, that is provided with a pair of parallel longitudinal partitions G', these partitions being central of the box.

The space in the box between the partitions G' is open at the front to a depending spout H, that feeds into a conduit I, made fast to the rear of a share J, that is rigidly connected to the rearwardly-diverging ends of a fork K in pivotal connection with tongue B under the same, the conduit being of sufficient diameter as to telescope on the spout when the share is lifted.

Hangers *d* for a wheel-colter L are made fast to the sides of the fork K, and in pivotally-adjustable connection with the fork sides are supports M for a pair of rotary covering-disks N, arranged as best shown in Fig. 2. These supports are segmentally slotted at their forward ends for the engagement of bolts extending through the fork sides, and set-nuts are run on the bolts to hold said supports in piv-

otally-adjusted position, whereby the depth of cut on the part of the covering-disks N is regulated.

Link-rods O connect the fork sides with cranks on a spindle P, loose in bearings on the tongue B, one of these cranks Q and a spindle-bearing *f* being shown in Fig. 1. Fast on spindle P is a lever R, provided with a spring-latch *g*, engageable with a stationary segmental rack S intermediate of the spindle-bearings, and by manipulating this lever pivotal adjustment of fork K is had to bring the aforesaid colter, share, and covering-disks in or out of working position, said lever being convenient to the driver of the planter, for whom a spring-seat T is shown mounted on the tongue.

The partitions G' in box G are provided with bearings for shafts U U', upon which rollers for an endless apron V are made fast, and the shaft U extends outward through a bearing constituting part of a bracket W, made fast to a side of said box. Outward from the bracket the shaft U is provided with a spline *h*, and this splined portion of the shaft is engaged by a sliding clutch-sleeve *i*, controlled by a lever X in spanner connection therewith, the lever being fulcrumed to bracket W and provided with a spring-latch *j*, engageable with a segmental rack constituting part of said bracket.

In slip-fit upon the outer end of shaft U, against a spiral spring *k*, is the hub of a sprocket-wheel *m*, the inner end of this hub being made to have engagement with the aforesaid clutch-sleeve when the latter is properly adjusted.

A link-belt *n* connects sprocket-wheel *m* with another sprocket-wheel *p*, fast on the hub of one of the wheels E, above specified, and thus travel is imparted to the endless apron when the shaft U and former sprocket-wheel are clutched. The apron is provided with a series of cups *q* at regular intervals apart, and potato-sets are fed into these cups from the box G by an attendant, for whom a spring-seat Y is connected to the rear of the planter-frame.

Depending from the rear of the planter-frame A central of the same is a bracket Z, and in pivotal connection with this bracket is a tube Z', closed at its ends. Weights *r*



are loose in the tube, and adjacent to its ends markers Z'' are adjustably clipped to said tube. A pair of the supports F extend below frame A and are virtually parts of a yoke  
5 comprising a horizontal bar F', from which are hung stay-chains s, that connect with the aforesaid tube.

Various means may be employed for holding the tube Z' in horizontal position when  
10 the machine is out of use, but being hauled from one place to another, and such means may consist of arms t u on said tube and bracket Z, held together by a key v, as shown in Fig. 1.

15 From the foregoing the operation of my improved potato-planting machine will be readily understood, and in brief this operation is as follows: The colter L makes incision in the soil forward of the share J and the po-  
20 tato-sets dropped from the cups on the endless traveling apron are discharged through the spout H and conduit I into the furrow opened by said share, the disks N operating to close said furrow. In the meantime the  
25 tube Z' has been tilted in the proper direction to have one of the markers Z'' thereon line the next row for planting the potato-sets, said markers being adjusted on said tube with reference to the desired distance between  
30 rows. To stop travel of the endless apron, the clutch-sleeve i is thrown out of engagement with the clutch-hub of the adjacent sprocket-wheel.

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

1. A potato-planting machine comprising a carriage, a box supported on the carriage, an  
40 endless apron having travel longitudinally of the box central of the same between parallel partitions, cups on the apron, a depending spout open to space between the partitions at the front of said box, a suspended share, a  
45 conduit fast to the rear of the share in line with the spout, covering-disks in rear of the conduit, and clutch-controlled mechanism for transmitting motion from a carriage-wheel to said apron.

2. A potato-planting machine comprising a  
50 carriage, a box supported by the carriage, an endless apron having travel longitudinally of the box, central of the same between parallel partitions, cups on the apron, a depending spout open to space between the partitions at  
55 the front of said box, a suspended share, a

conduit fast to the rear of the share in line with the spout, covering-disks in rear of the conduit, clutch-controlled mechanism for transmitting motion from a carriage-wheel to  
60 said apron, and a row-marker in pivotal connection with said carriage.

3. A potato-planting machine comprising a carriage, a box supported on the carriage, an  
65 endless apron having travel longitudinally of the box central of the same between parallel partitions, cups on the apron, a depending spout open to space between the partitions at the front of said box, a suspended wheel-  
70 colter and share, a conduit fast to the rear of the share in line with the spout, covering-disks in rear of the conduit, and clutch-controlled mechanism for transmitting motion from a carriage-wheel to said apron.

4. A potato-planting machine comprising a  
75 carriage, a box supported on the carriage, an endless apron having travel longitudinally of the box central of the same between parallel partitions, cups on the apron, a depending spout open to space between the partitions at the front of said box, a suspended share, a  
80 conduit fast to the rear of the share in line with the spout, pivotally-adjustable covering-disks in rear of the conduit, and clutch-controlled mechanism for transmitting motion  
85 from a carriage-wheel to said apron.

5. A potato-planting machine comprising a carriage, a box supported on the carriage, an  
90 endless apron having travel longitudinally of the box central of the same between parallel partitions, cups on the apron, a depending spout open to space between the partitions at the front of said box, a fork in pivotally-ad-  
95 justable connection with the carriage-tongue, a wheel-colter hung from the fork, a share rigid with the rearwardly-diverging ends of said fork, a conduit fast to the rear of the  
100 share in line with the spout, covering-disks in pivotally-adjustable connection with the aforesaid fork, and clutch-controlled mechanism for transmitting motion from a carriage-wheel to said apron.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

HENRY HALTER.

Witnesses:

N. E. OLIPHANT,  
B. C. ROLOFF.