

No. 691,782.

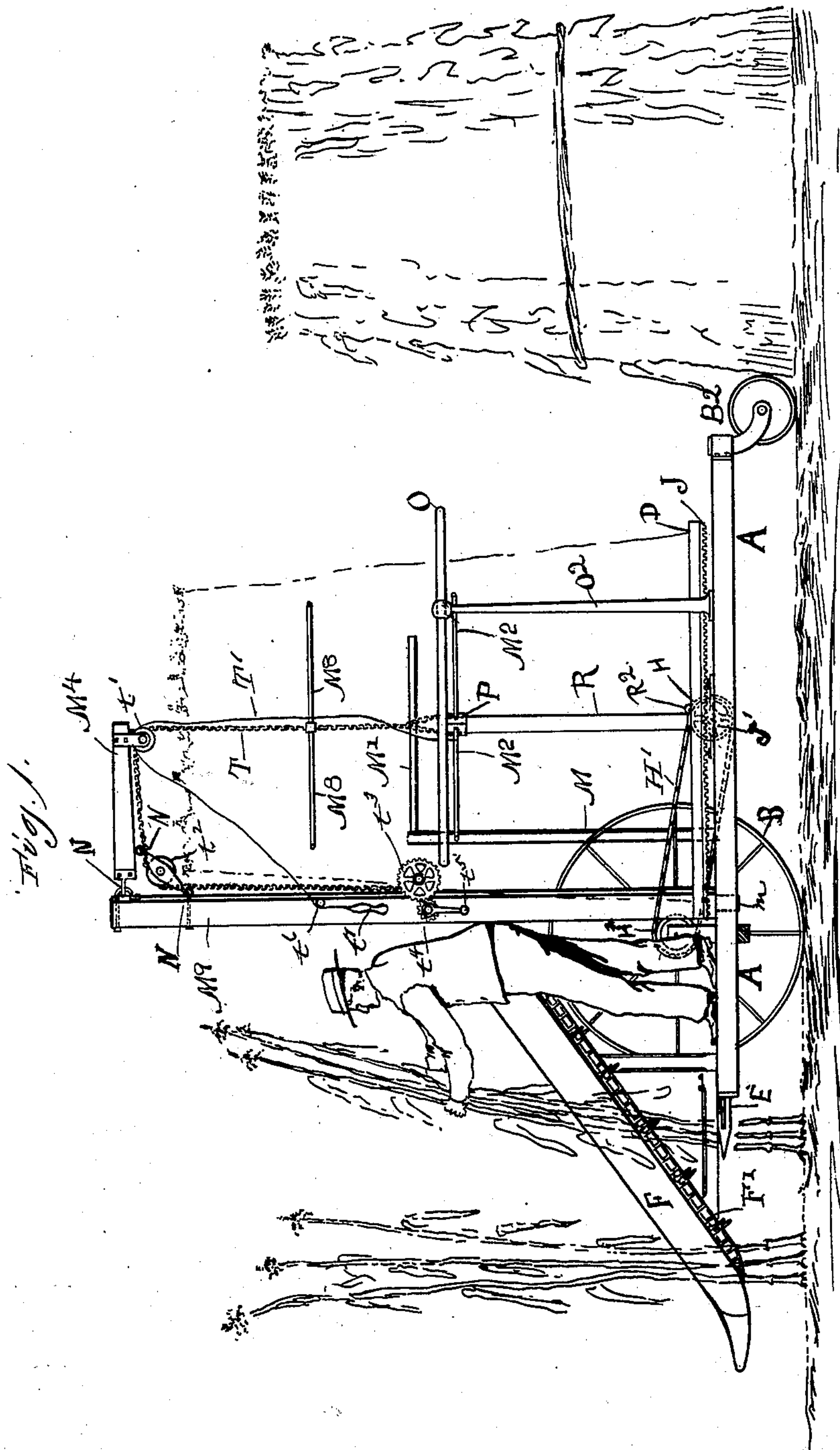
Patented Jan. 28, 1902.

A. V. KISER.  
CORN HARVESTER.

(Application filed Mar. 11, 1901.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES:

John C. Rock,  
Verdie A. Kiser.

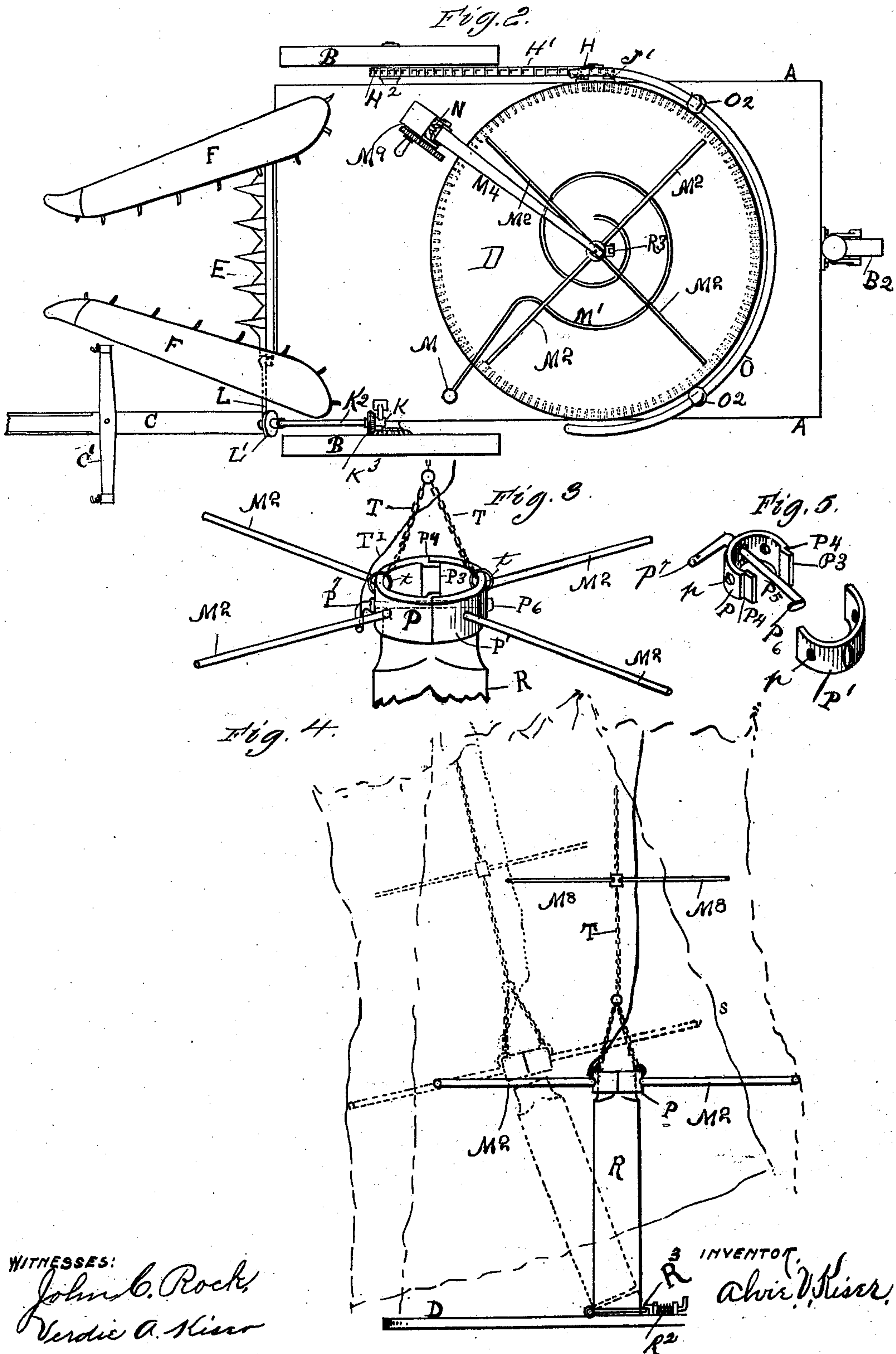
INVENTOR,  
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Verdie A. Kiser

INVENTOR  
A. V. Kiser.



# UNITED STATES PATENT OFFICE.

ALVIE V. KISER, OF WEST LIBERTY, OHIO.

## CORN-HARVESTER.

SPECIFICATION forming part of Letters Patent No. 691,782, dated January 28, 1902.

Application filed March 11, 1901. Serial No. 50,756. (No model.)

*To all whom it may concern:*

Be it known that I, ALVIE V. KISER, a citizen of the United States, and a resident of West Liberty, in the county of Logan and State of Ohio, have invented certain new and useful Improvements in Corn-Harvesters, of which the following is a specification.

My invention relates to that class of corn-harvesters in which the shock is bound on the machine; and the object of the invention is to provide improved means for forming the shock and discharging the same from the machine.

The construction of the improvement will be fully described hereinafter in connection with the accompanying drawings, which form a part of this specification, and its novel features will be defined in the appended claims.

In the drawings, Figure 1 is a side elevation of a corn-harvester embodying the invention. Fig. 2 is a plan view of the same. Fig. 3 is a detail perspective, on an enlarged scale, of the separable collar and its radial arms constituting part of the means for forming the shock and removing it from the machine. Fig. 4 is a detail side elevation of a portion of the machine, illustrating by dotted lines the manner of removing the shock from the machine-platform; and Fig. 5 is a detail perspective view of the separable collar and its locking means.

The reference-letter A designates the stationary platform of the machine, supported adjacent to its front end by wheels B and at its rear end by a wheel B<sup>2</sup>.

The machine is adapted to be drawn by a tongue C, upon which is pivotally secured a doubletree C'.

Upon the stationary platform A is centrally supported a rotary platform D.

E designates the knives of the harvester, adapted to reciprocate below the forwardly-converging guides F by a link L, an eccentric L', and a shaft K<sup>2</sup>, carrying a bevel-pinion K<sup>3</sup>, meshing with a bevel-gear K, mounted concentric with the adjacent wheel B.

The under surface of the platform D is provided with a circular rack J, adapted to be engaged by a gear-pinion J', mounted upon a suitable axial support at one side of the platform A concentric with a sprocket-wheel H, the latter being connected by a chain H' with

a driving sprocket-wheel H<sup>2</sup>, mounted on the axle of the wheels B.

Rising from the stationary platform A are two standards O<sup>2</sup>, which support a semicircular rail O, adapted to support the stalks.

Hinged centrally upon the rotary platform D is a post R, the hinge-plate R<sup>3</sup> of which projects beyond the side of the post in position to be engaged by a sliding spring-controlled bolt R<sup>2</sup>. The upper end of the post R is circumferentially reduced to receive a separable ring comprising a section P, formed with shoulders P<sup>4</sup> and flanges P<sup>3</sup>, and a section P', the ends of which overlap the flanges P<sup>3</sup> and fit against the shoulders P<sup>4</sup>. The ring-sections P and P' are formed with openings *p* to receive arms M<sup>2</sup>, which project radially from the ring, and said ring-sections are also formed with registering openings to receive a locking-rod P<sup>5</sup>, bent at one end to form a hook P<sup>6</sup> and at its opposite end to form a handle P<sup>7</sup>.

M designates a standard rising from the platform A, to the upper end of which is secured one end of a coil-spring M', the function of which is to encircle the stalks as the shock is built up, the spring gradually expanding to embrace the shock as it increases in size.

The hoisting device comprises a standard M<sup>9</sup>, pivotally supported at its lower end *m* within a socket formed in the platform A, a beam M<sup>4</sup>, having a hinged connection with the upper end of the standard M<sup>9</sup>, and a suspending and elevating chain T. The chain T is branched at one end and connected to opposite sides of the ring P by rings *t* and then passes over pulleys *t'* *t''* to a winding-drum provided with gears *t'''* and *t''''* and a crank-handle *t'''* for revolving the drum to wind the chain thereon. Attached to the chain T are arms M<sup>8</sup>, which assist in supporting and assembling the stalks while the shock is being formed.

To the handle P<sup>7</sup> of the locking-rod P<sup>5</sup> is attached one end of a cord T', which passes over the pulley *t'* and thence over a pulley *t''*, a suitable handle *t'''* being provided at the free end of the cord.

The utility and operation of the apparatus will be readily understood. The stalks after being cut pass upward between the guides F by suitable endless conveyers F' and are grasped by an operator standing on the plat-



form A. The operator arranges the cut stalks in upright position upon the rotary platform, the rail O and arms M<sup>2</sup> and M<sup>8</sup> aiding in supporting the stalks in proper position. After the shock is completed and bound the bolt R<sup>2</sup> is withdrawn to release the post R, and by pulling the cord T' the rod P<sup>5</sup> is turned, thus loosening the ring-sections, after which by manipulating the crank t<sup>5</sup> the chain T is wound upon the drum to raise the shock. After it clears the rotary platform the hoisting-standard is turned to deposit the shock upon the ground. The spring M' yields to allow the removal of the shock, and the arms M<sup>2</sup> and M<sup>8</sup> pull out of engagement with the stalks.

I claim—

1. In a corn-harvester, the combination with a rotary platform, of a post arranged centrally thereon and hinged thereto; means for locking and releasing the post; a separable ring upon the upper end of the post; means for connecting and disconnecting the ring-sections; and hoisting devices for elevating said ring with the shock.

2. In a corn-harvester, the combination with a stationary platform, and a rotary platform thereon, of a curved rail supported above the rotary platform; a post hinged to the rotary platform, a separable ring on said post carrying radial arms; means for locking and releasing the ring-sections; elevating devices connected to said ring, and a coil-spring supported horizontally above the rotary platform.

3. In a corn-harvester, the combination with a rotary platform of a post hinged thereon; a sliding bolt for locking said post in upright position, a separable ring on said post; an oscillating locking-rod connecting the ring-sections, a pull-cord for turning said rod; arms projecting radially from said ring, and hoisting devices connected to said ring.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALVIE V. KISER.

Witnesses:

VAN B. BAILEY,  
GEO. F. BAILEY.