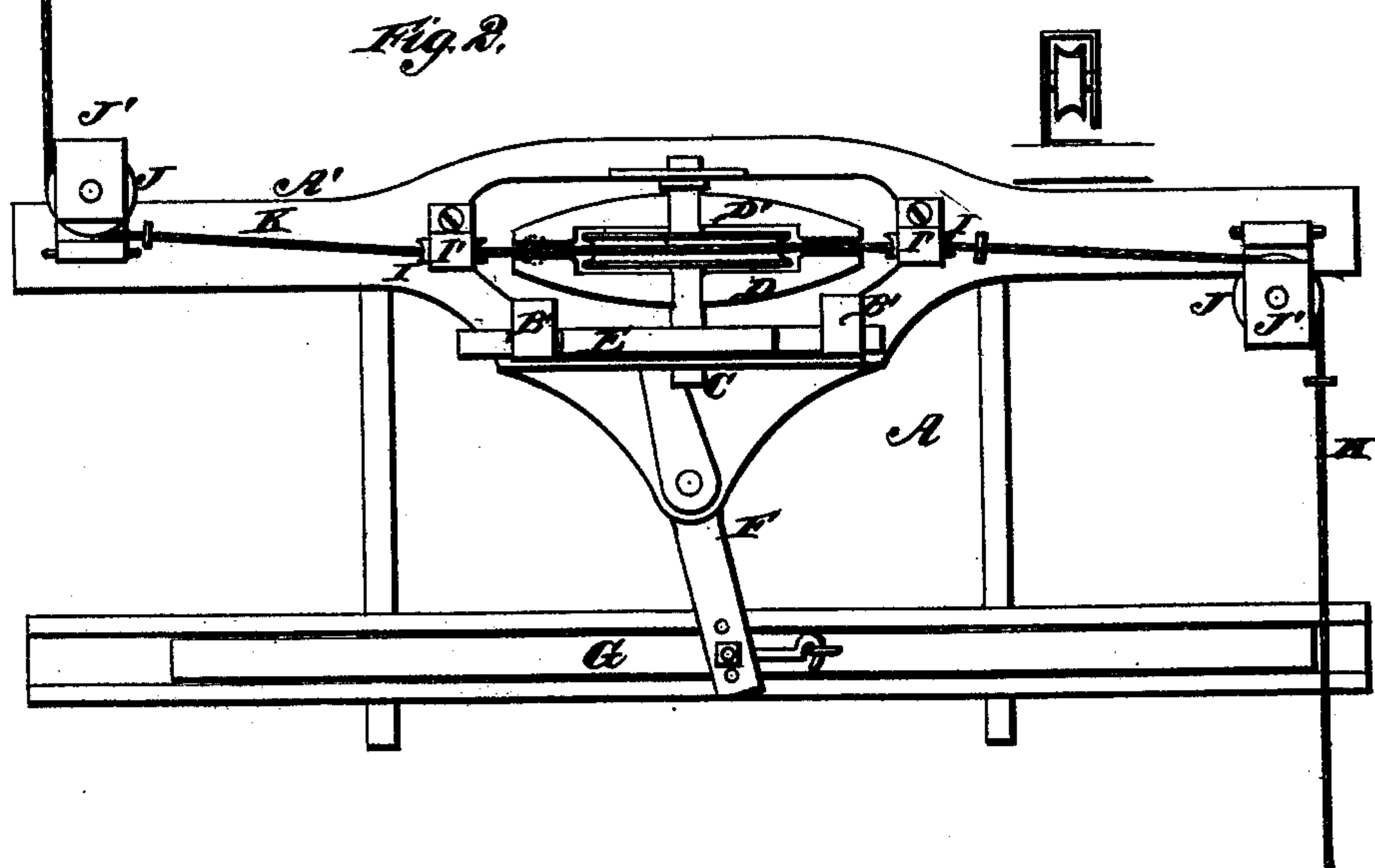
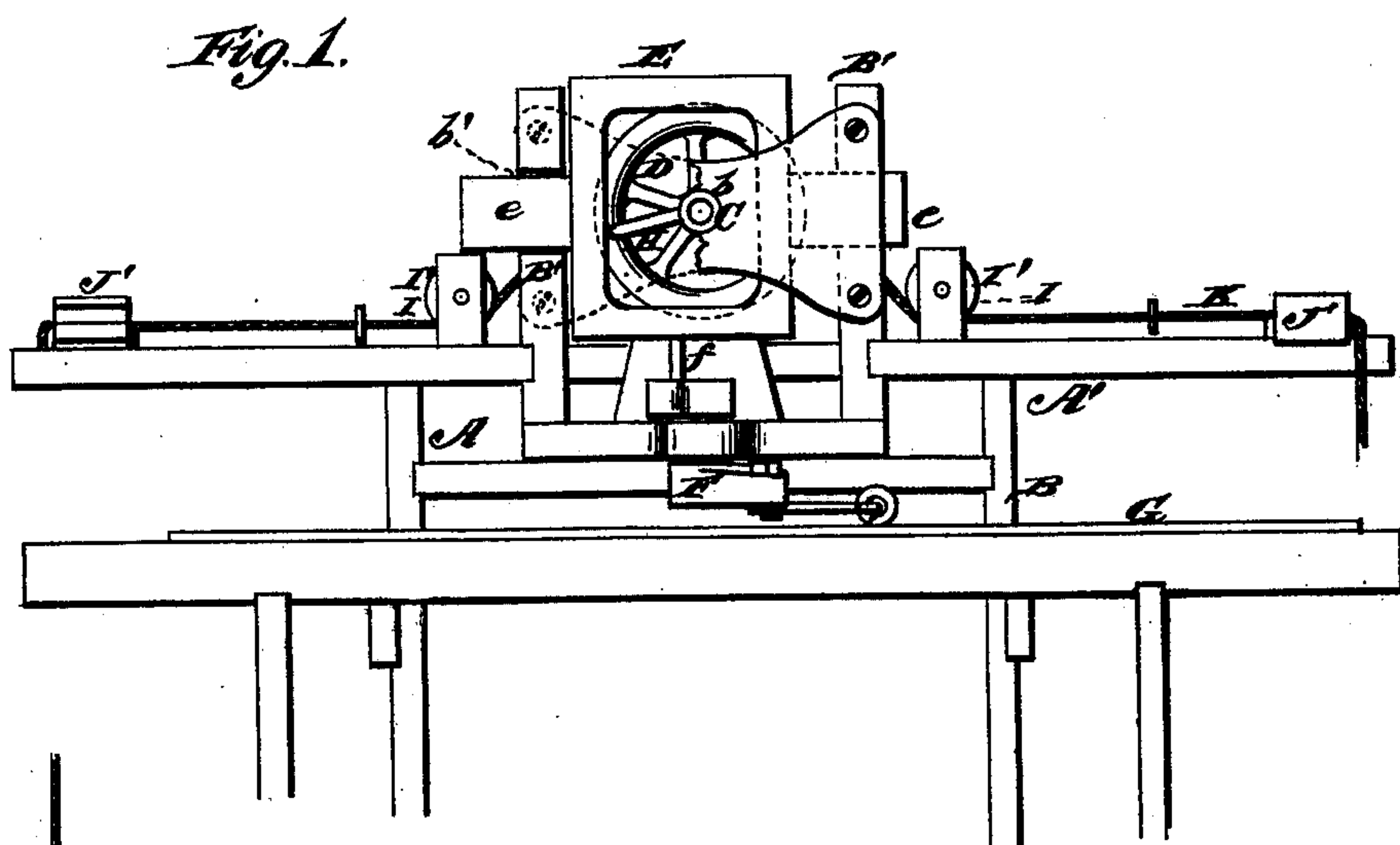


W. R. CUNNINGHAM.
Check-Rower for Corn-Planters.

No. 219,695.

Patented Sept. 16, 1879.



WITNESSES
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WILLIAM R. CUNNINGHAM, OF LA FAYETTE, INDIANA.

IMPROVEMENT IN CHECK-ROWERS FOR CORN-PLANTERS.

Specification forming part of Letters Patent No. **219,695**, dated September 16, 1879; application filed March 22, 1879.

To all whom it may concern:

Be it known that I, WILLIAM R. CUNNINGHAM, of La Fayette, in the county of Tippecanoe and State of Indiana, have invented certain new and useful Improvements in Check-Rowers for Corn-Planters; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates to a check-row attachment to corn-planters; and the novelty consists in the construction and arrangement of parts, as will be more fully hereinafter set forth.

In carrying out my invention I employ a proper crank-shaft journaled in suitable standards, upon which is hung a loose pulley, and rigid with this shaft a double-armed radial fork, which engages a knotted rope. The rope, passing over the loose pulley, engages the forks, as shown. The rope passes over proper pulleys having open shields through hinged pulleys upon the ends of the cross-bar, and, passing in opposite directions, is secured to each end of the field, as is usual.

By reason of the open shields the rope is readily applied without the trouble of passing through, and the hinged pulleys will turn over and operate, as the planter is driven toward either side of the field, in the direction of the rope.

A single radial arm from the crank-shaft serves as a cam upon a yoke in such a manner as to throw said yoke to one side and back with one revolution of the shaft, and the engagement of the said cam with the yoke is such that the stroke in either direction occupies but one-quarter of the revolution of the shaft, hence giving the necessary quick stroke to the feed-bar which insures proper planting and avoids dribbling.

The yoke is loosely connected with a pivoted lever, which connects with the feed-bar.

Referring to the drawings, A represents a proper frame, A' an ordinary cross-bar, and B proper standards, furnishing at *b b* journal-bearings for a shaft, C, carrying a loose pulley, D, and rigid double fork D'. B' B' represent standards, mortised at *b'* to receive the horizontal arms *e* of a vibrating yoke, E, which, by an arm, *f*, is loosely connected to a pivoted lever, F, which vibrates the feed-bar G, as shown. Upon the shaft C is a rigid radial arm, H, which serves as a cam upon the yoke E, forcing it to vibrate in two directions with a quick, sudden stroke while the shaft C revolves once.

I I represent pulleys having open shields I' I', as shown, situated on the cross-bar A', adjacent to the loose pulley D, slightly below the horizontal diameter of the same.

Hinged to the ends of the cross-bar A' are two pulleys, J, having open shields J', and adapted to serve efficiently in either direction, as shown.

The knotted cord K is readily placed in the pulleys through the open shields. Passing over the pulley D and around pulleys I I and pulleys J J, the free ends lead in opposite directions, as is usual in this class of planters.

I claim—

In a check-rower for corn-planters, the combination of pulley D, pulleys I I, and hinged pulleys J J, said pulleys J and I having open shields J' I', with a rope, K, as and for the purpose set forth.

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

WILLIAM R. CUNNINGHAM.

Witnesses:

CHARLES GROENENDYKE,
EDWARD GROENENDYKE.