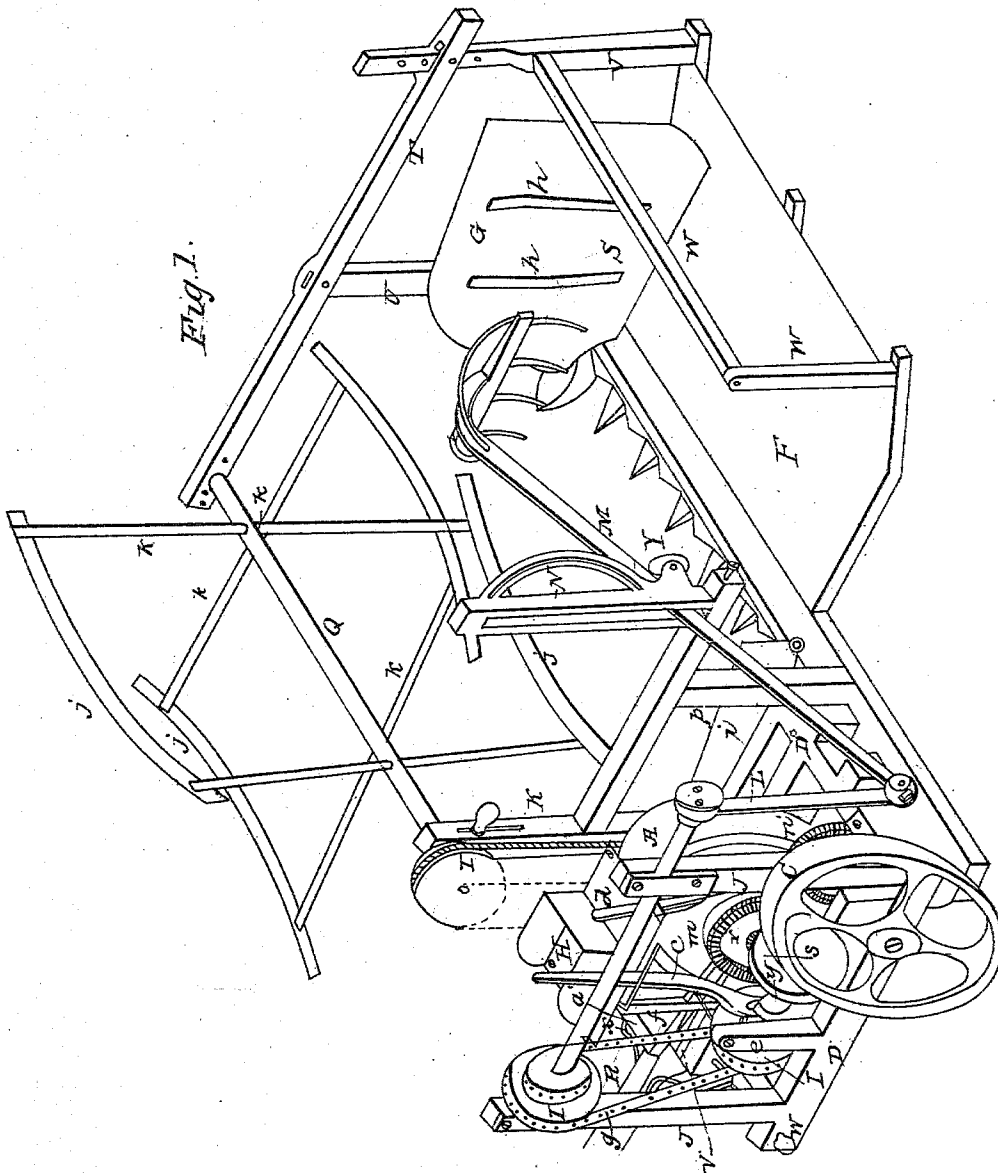


S. & L. JOHNSON, Jr.

Harvester.

No. 18,813.

Patented Dec. 8, 1857.



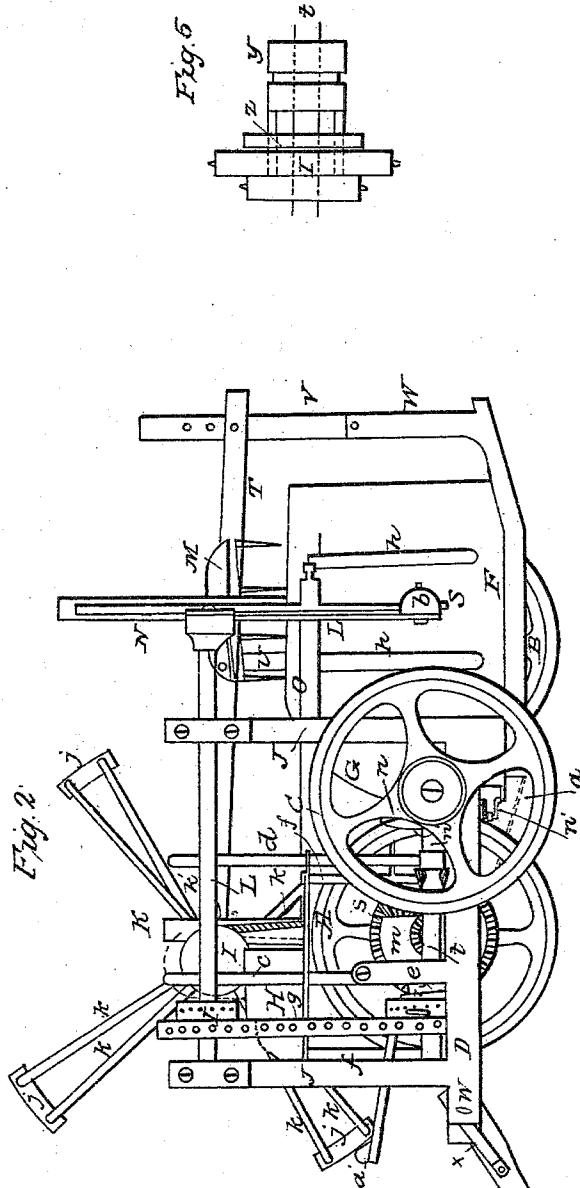
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Seymour Johnson
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3 Sheets—Sheet 2.

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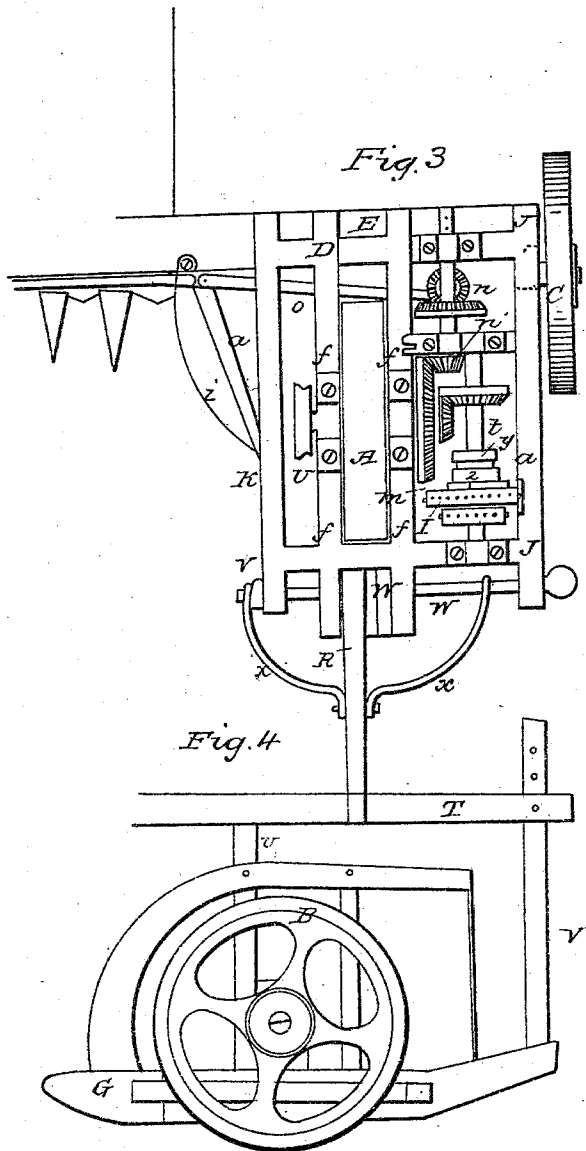


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UNITED STATES PATENT OFFICE.

S. JOHNSON AND L. JOHNSON, JR., OF AVON, NEW YORK.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. **18,813**, dated December 8, 1857.

To all whom it may concern:

Be it known that we, SEYMOUR JOHNSON and LEICESTER JOHNSON, Jr., of Avon, in the county of Livingston and State of New York, have invented new and useful Improvements in Reapers or Grain-Harvesters; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure I is a perspective view, Fig. II a longitudinal elevation, Fig. III a plan, of the gear-frame; Fig. IV, a section, Fig. V detached view, of rake-clutch.

The nature of our invention consists of a device for obviating side draft, consisting of a third wheel placed in a position to bear in part the weight of the gearing, thereby counteracting the tendency of the platform to occasion side draft, and the placing of movable blocks at the sides of the pole for varying the line of draft.

To enable others skilled in the art to make and use our invention, we will proceed to describe its construction and operation.

To a rectangular frame of any suitable form, having the finger-bar attached to the back end, as seen in Fig. III, we attach the third wheel, C, on the side of the frame opposite the platform, with its center nearly over the end of the finger-bar and back of the drive-wheel, as seen in Fig. II, so that lines connecting the three wheels A, B, and C will form a triangle, A being in front, so that the line connecting its center with the center of C shall form an an-

gle of nearly forty-five degrees with the frame. By placing the gearing on the outer side of the drive-wheel its weight is brought to bear on the wheel C, thereby counteracting the side draft occasioned by the platform.

To the front of the frame we attach a draft-pole, R, and at the side or sides of the pole, at the place of its attachment to the frame, we place a movable block or blocks, *v v*, by moving which we change the position of the pole and vary the line of draft at pleasure.

It will be observed that the framing both of the gear and main frame projects in front, and affords lateral guides or supports to the adjustable draft-pole R, which is rendered adjustable in the following manner: A sufficient space is allowed between the two center pieces of the frame to admit the draft-pole and the movable blocks *v v*. By removing the bolt *w* and changing the relative positions of the draft-pole and blocks the line of draft may be varied at pleasure.

What we claim as our invention, and desire to secure by Letters Patent, is—

The arrangement of the outer wheel, C, drive-wheel A, and inner wheel, B, in combination with the adjustable draft-pole R and movable blocks *v v*, the whole being arranged for joint operation substantially in the manner and for the purpose set forth.

SEYMOUR JOHNSON.
LEICESTER JOHNSON, JR.

Witnesses:

LEICESTER JOHNSON,
N. ROBINSON.