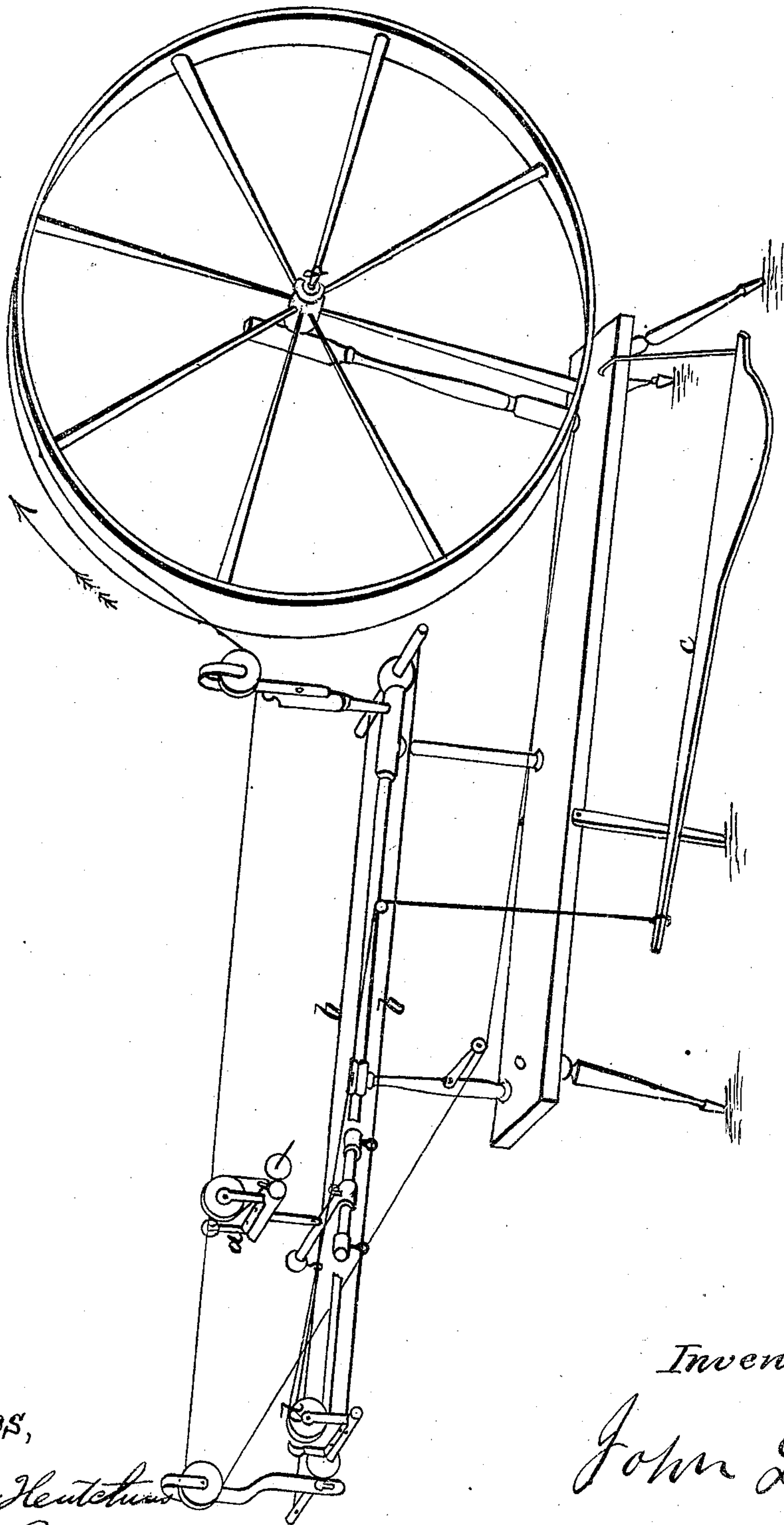


J. Green.
Spinning Mach.

N^o 59,210.

Patented Oct. 30, 1866.



Witnesses,
Thos. H. Hentchen
J. K. Bailey

Inventor,
John Green

UNITED STATES PATENT OFFICE.

JOHN GREEN, OF JOLIET, ILLINOIS.

IMPROVEMENT IN HAND SPINNING-WHEELS.

Specification forming part of Letters Patent No. 59,210, dated October 39, 1866.

To all whom it may concern:

Be it known that I, JOHN GREEN, of the city of Joliet, in Will county and State of Illinois, have invented a new and useful Improvement on a Hand Spinning-Wheel.

The nature of my invention consists in providing the common hand spinning-wheel with a movable reciprocating spindle-head, so arranged as to enable the operator to twist the roll and wind the yarn up on the spindle without being obliged to walk to and from the same while turning the wheel, thus to enable the operator to spin a much greater quantity and with far greater ease than with the ordinary spinning-wheel; and I 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.

a represents the common spindle-head, arranged on a cross-bar with guides resting and sliding on the inclined ways *b*, fastened at either end to a cross-head. The spindle-head *a* is pulled toward the lower end of the inclined ways in consequence of the cord from the main wheel taking one turn around the drum or shaft of the main spindle-sheave.

The incline of the ways tends to facilitate this movement, the object of which is to wind up the yarn on the spindle after it is twisted, thereby saving the operator the trouble of walking toward the spindle in order to let it take up the yarn, as in the ordinary way.

The head is moved back for the purpose of

twisting out the roll by the trip *c*, by means of a cord passing around the drum or shaft of the pulley *d*, which, as said trip is pressed down, winds up a cord on said pulley, which, being attached to the spindle-head, pulls the same back to the upper end of the inclined ways, thereby causing a reciprocating motion of the spindle-head *a*.

The particular improvement I claim to have made is that I use only one cord and one pulley to move the head back toward the outer end of the ways, while in other machines two (one to move it each way) are used with a pulley at each end of the ways. In those machines the cords are continually flying off the pulleys and tangle up in a snarl. By the use of only one cord to pull the head one way, and letting the cord from the main wheel bring it back, I avoid all that annoyance and very materially simplify the machine. By the peculiar construction of the pulleys and the adjustment of the cords as described the cords will not fly off the pulleys.

What I claim as new in my invention, and desire to secure by Letters Patent, is—

The peculiar and particular arrangement of the cords and pulleys described, in combination with the inclined ways *b*, as and for the purposes described.

JOHN GREEN.

Witnesses:

THOS. H. HUTCHINS,
F. K. BAILEY.