

(Model.)

J. H. ALLEN.
Spinning-Machine.

No. 227,873.

Patented May 25, 1880.

Fig. 1.

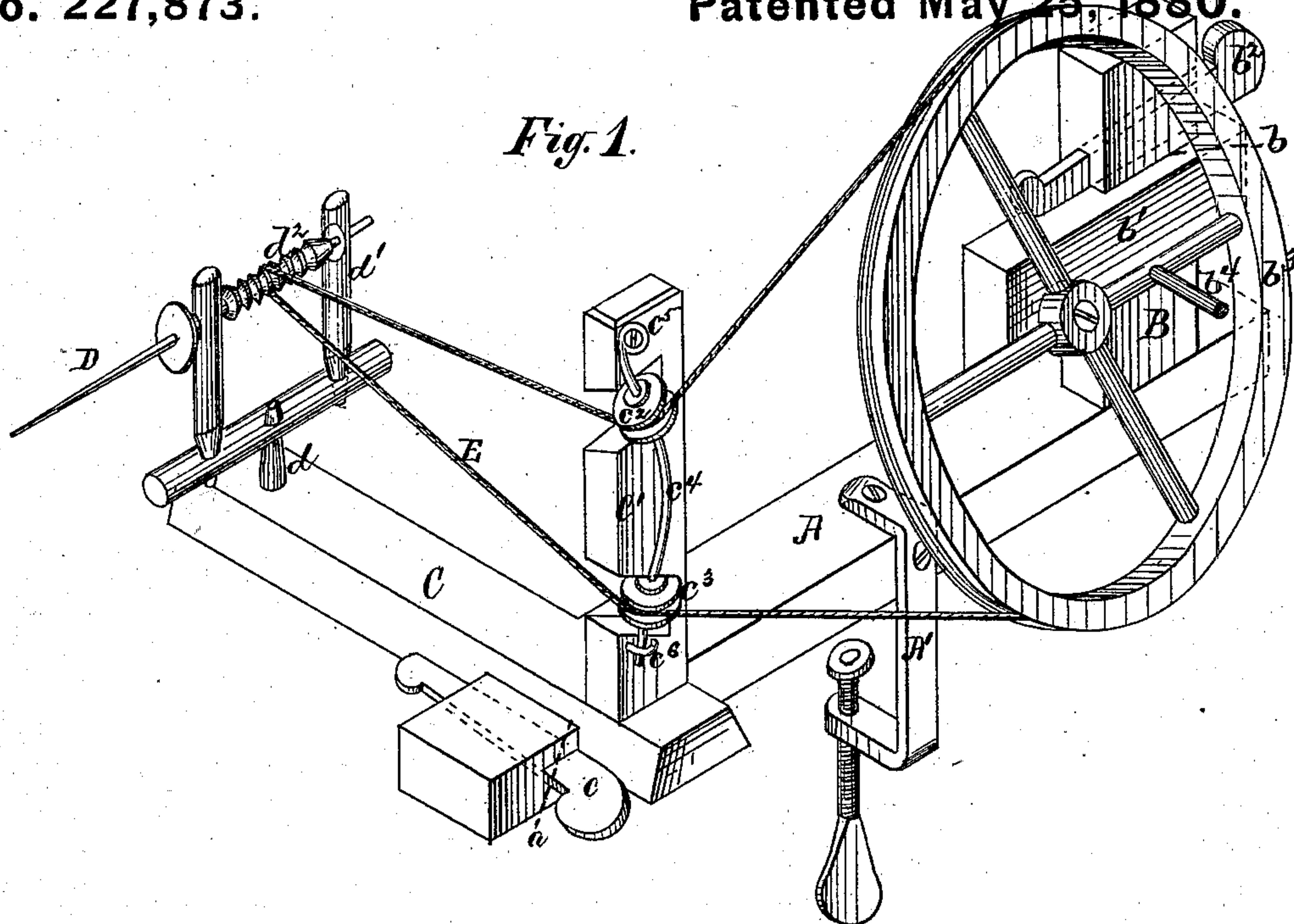
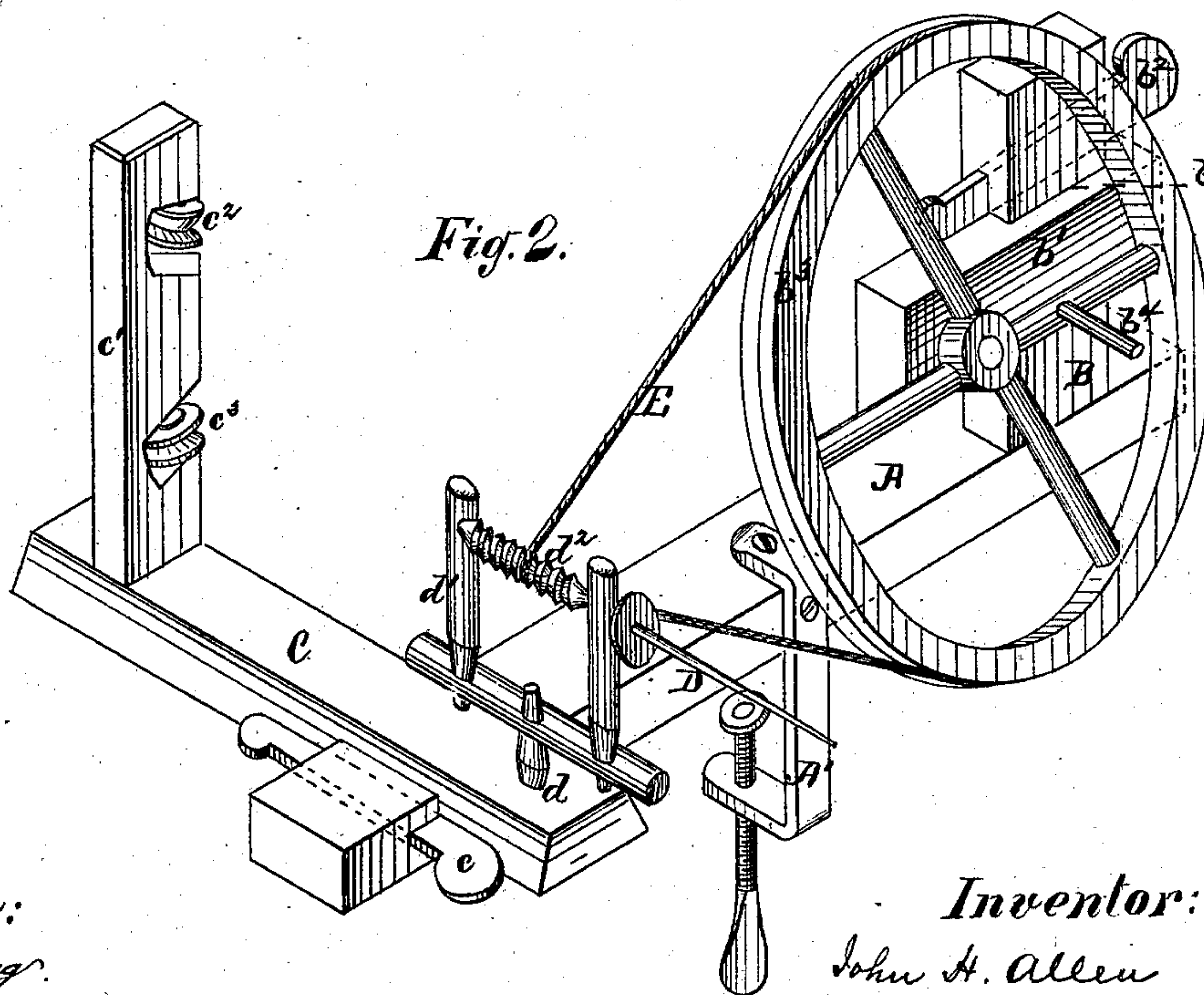


Fig. 2.



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UNITED STATES PATENT OFFICE.

JOHN H. ALLEN, OF FRANKFORT, WEST VIRGINIA.

SPINNING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 227,873, dated May 25, 1880.

Application filed March 5, 1880. (Model.)

To all whom it may concern:

Be it known that I, JOHN H. ALLEN, of Frankfort, Mineral county, State of West Virginia, am the inventor of an Improved Spinning-Machine, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a spinning-machine suitable to be operated by hand-power; and it consists in the combination of parts, hereinafter particularly set forth, and arranged to operate as specified.

Figure 1 is a view, in perspective, of a spinning-machine embodying my improvements, and shows the parts arranged in position for the operation of spinning. Fig. 2 is a similar view of the same, showing the parts arranged in position to allow a bobbin or spool to be wound with yarn or thread.

A is the standard or base of the machine. Upon this base is fixed the screw-clamp A', as shown, by means of which the machine may be secured at pleasure upon the edge of a table or other convenient support.

Upon one end of the base is fixed the upright post B, in the side of which is cut or formed the dovetail channel b. In this channel is fitted, and arranged to slide therein on the longitudinal line of the base, the block b', said block being held in place in said channel by the key b². Upon the outer side of this block, on a suitable stud, arm, or shaft, is the driving-wheel b³, said wheel being furnished with a crank-handle, b⁴, as shown. By means of this arrangement of parts the driving-wheel is given an adjustment horizontally in the longitudinal line of the base A.

In the upper face of the base, and across the same, at the end opposite to the post B, is cut or formed the dovetail channel or way a. Into this channel or way is fitted to slide the plate or block C, and said plate is held in place by the key c, as shown. Upon one end of this plate C is a post or upright, c', and in suitable recesses therein are the pulleys c² and c³, one near the upper and one near the lower end of said post, and arranged in relation to each other and the driving-wheel b³ as hereinafter set forth.

Upon the opposite end of the plate C, on a pivot-post, d, is mounted the frame d', in which is the spindle D and its operating-pulley d², as shown.

The pulleys c² and c³ are so mounted and arranged, with their axes inclined to the perpendicular line of the post c', that the belt E, passing from the driving-wheel b³, will be guided to the pulley on the spindle at the opposite end of the plate C. I find that a very convenient mode of thus arranging these guide-pulleys c² and c³ upon inclined axes is by means of the rod c⁴, pivoted to the post c' at c⁵, and bent toward the driving-wheel during the length or portion forming the axis of the upper pulley, c², and then reversely bent away from said wheel for the portion that is the axis of the pulley c³, the free end of said rod engaging a catch on the side of the post at c⁶, and being thus held in place. By this means the pulleys c² and c³ may be easily and conveniently unshipped at any time, while their perfect adjustment as guide-pulleys can be accomplished by a greater or less curve in the rod c⁴.

It is evident that the parts may be arranged for the operation of spinning as seen in Fig. 1, the end of the plate C carrying the spindle being extended from the base, so that the operator, while turning the driving-wheel with one hand, may very readily feed the spindle with the other, the parts being in the most convenient position for this purpose, and that the plate C may be reversed on the base A, as in Fig. 2, and the spindle-frame swung on its pivot, so that by the use of a shorter belt, running direct from the driving-wheel to the spindle-pulley, the parts will be brought into position where the winding of a bobbin or spool placed on the spindle may be most conveniently accomplished.

The adjustment of the wheel b³ on the post B permits the belt to be tightened or slackened.

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

In combination with the base A, having the way a, the plate C, arranged therein, the driving-wheel b³, its shaft, and means for adjusting the same longitudinally relative to said base, upright c', guide-pulleys c² and c³, pivoted frame d', spindle D, and pulley d², all constructed and arranged to operate as described.

JOHN HERMAN ALLEN.

Witnesses:

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