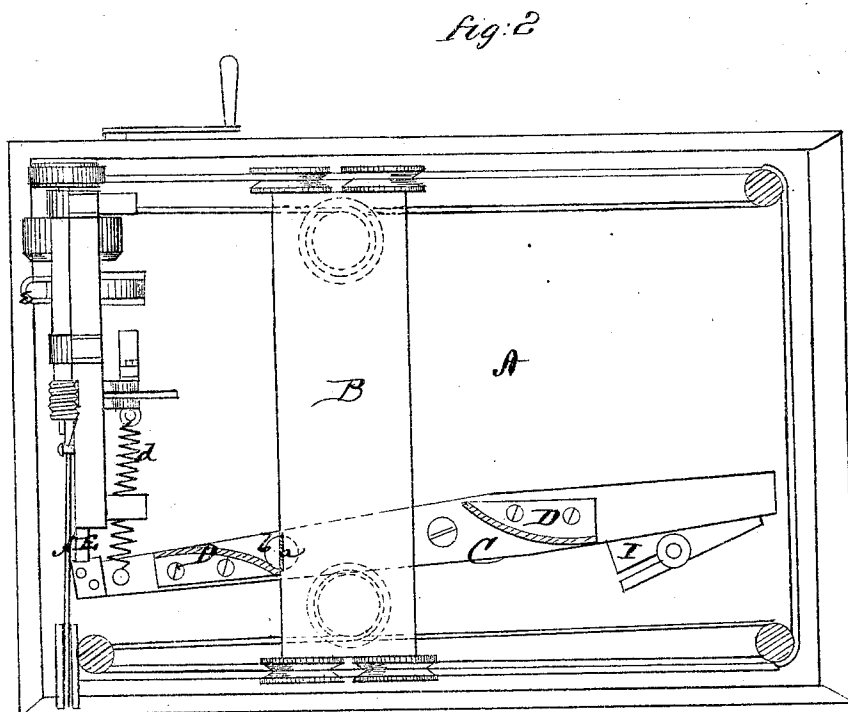
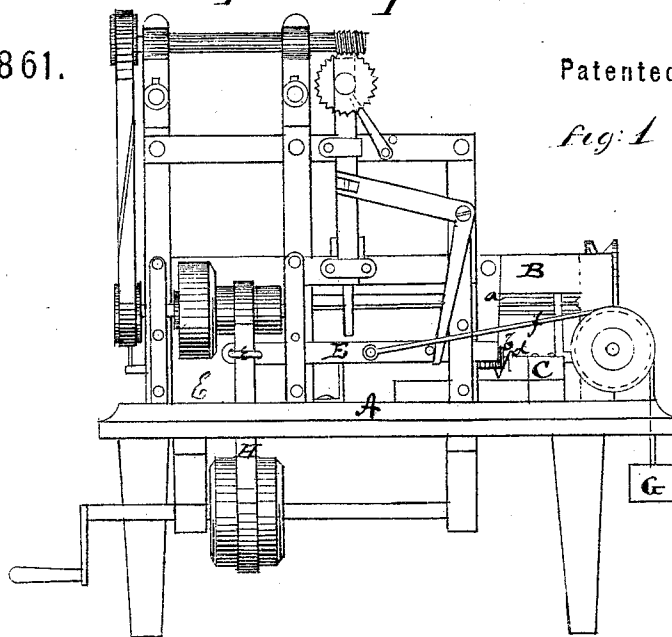


Albert Fox Belt Shifter & Spinning Jack

No. 121,861.

Patented Dec. 12, 1871.



Witnesses.

L. L. Everett.
A. A. Chapman

Inventor.

Albert Fox.
per
Alexander Mason

Attys.

UNITED STATES PATENT OFFICE.

ALBERT FOX, OF EDINBURG, INDIANA.

IMPROVEMENT IN BELT-SHIFTERS FOR SPINNING-JACKS.

Specification forming part of Letters Patent No. 121,861, dated December 12, 1871.

To all whom it may concern:

Be it known that I, ALBERT FOX, of Edinburg, in the county of Johnson and in the State of Indiana, have invented certain new and useful Improvements in Belt-Shifter for Spinning-Jack; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a belt-shifter for spinning-jacks, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is an end elevation, and Fig. 2 is a plan view.

In the accompanying drawing I have only deemed it necessary to illustrate so much of a spinning-jack as is required to understand my invention.

A represents the floor upon which the jack stands, on said floor being suitable ways or track for the carriage B to move back and forth upon. At a suitable point of the floor A is placed a lever, C, pivoted in the center so that it can work at both ends. On this tenon are secured two cams, D D, one near each end, and facing in opposite directions. To the carriage B is attached an arm, a, with a roller, b, at its lower end, said roller,

when the carriage moves back and forth, striking the cams D D so as to turn the lever C on its pivot. The front end of the lever C is, by a spring, d, drawn or forced against a slide, E, at one end. At the other end of this slide is a guide-loop, e, through which the belt H passes. The action of the spring d upon the lever C forces the slide E to one side, so as to guide the belt onto the fast pulley and run the machine. When the carriage B moves to either end so as to cause the roller b, by coming in contact with either one of the cams D, to turn the lever, a weight, G, connected by a cord, f, with the slide E, moves the same so as to guide the belt onto the loose pulley and not run the machinery. Against the rear end of the lever C on the floor A is secured a slotted wedge-shaped key or regulator, I, which can be adjusted so as to regulate the distance the spring d will draw or force the lever, and thus get just the friction required to wind the yarn on the bobbin.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination of the lever C, cams D D, and slotted wedge-shaped key or regulator I, all constructed and arranged to operate substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 8th day of March, 1871.

ALBERT FOX.

Witnesses:

MARION MOONEY,
JACOB M. MILLER.

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