

# Albert Fox Belt Shifter & Spinning Jack

No. 121,861.

Patented Dec. 12, 1871.

Fig. 1

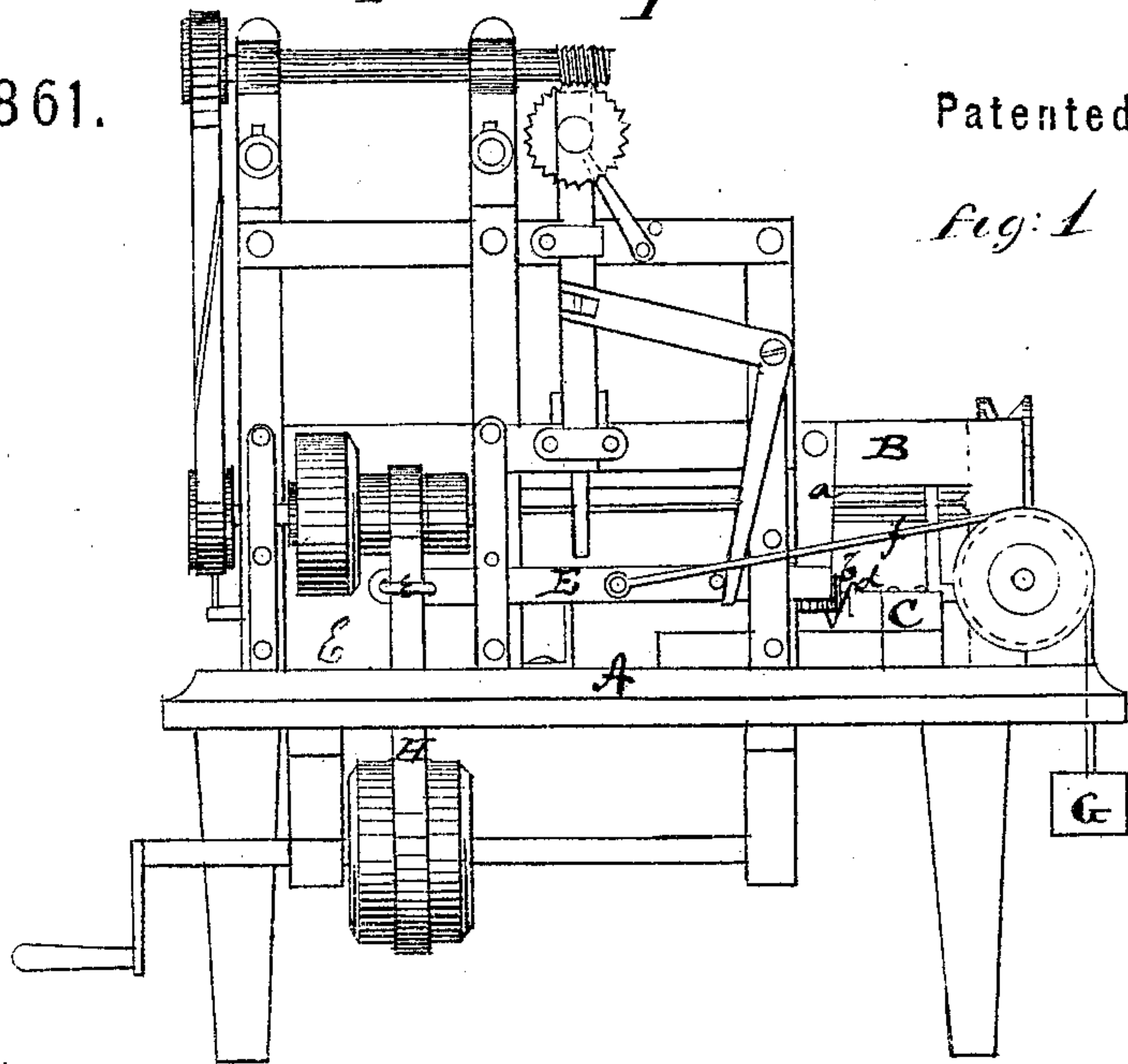
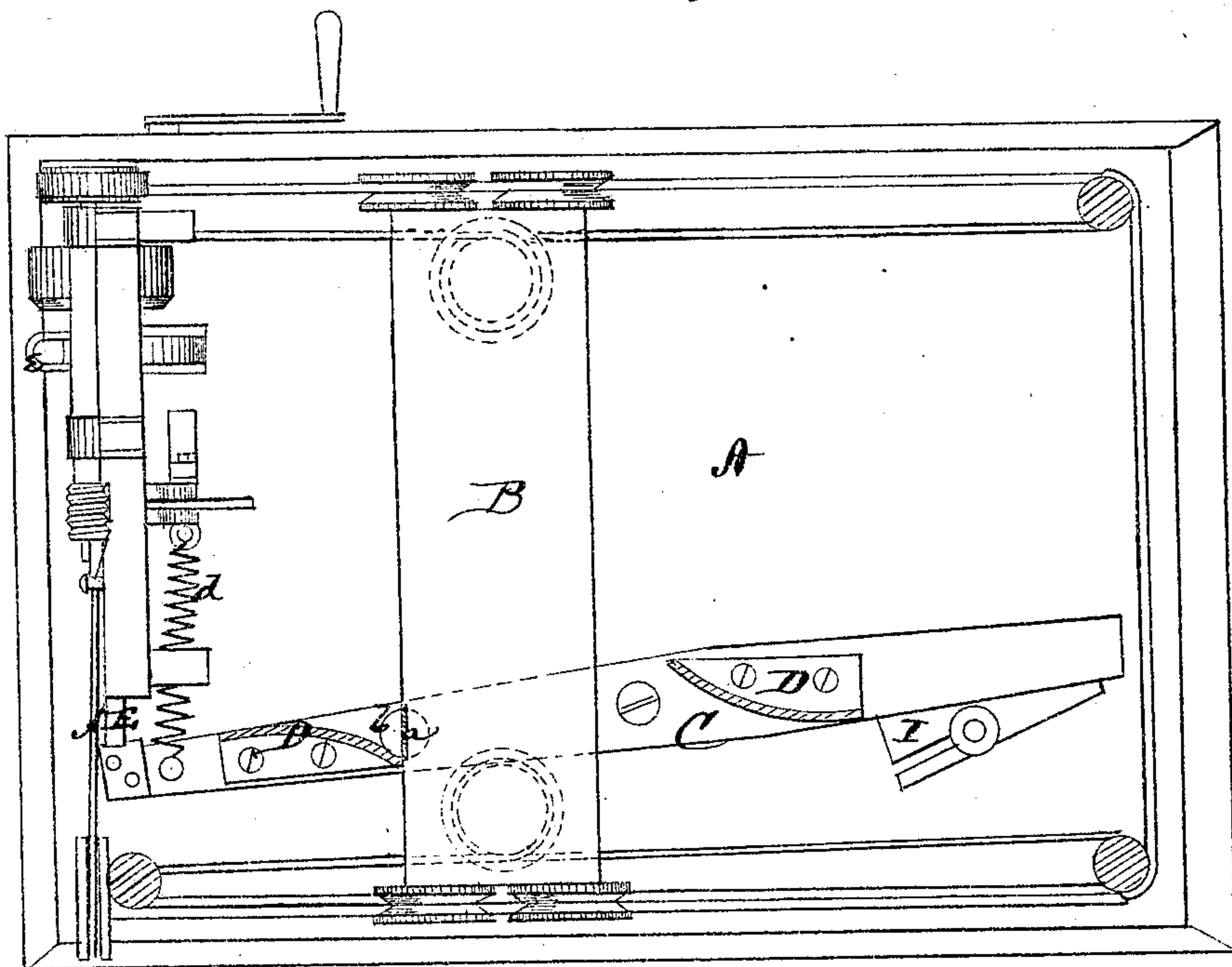


Fig. 2



Witnesses.

C. L. Cuentz.  
A. A. Peatman

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.

(142)