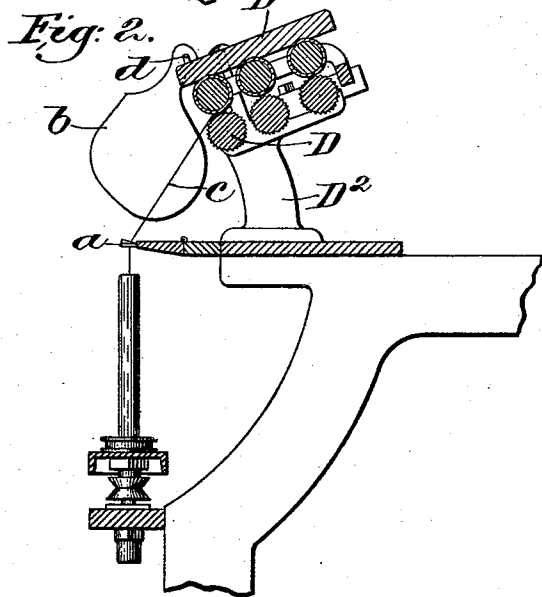
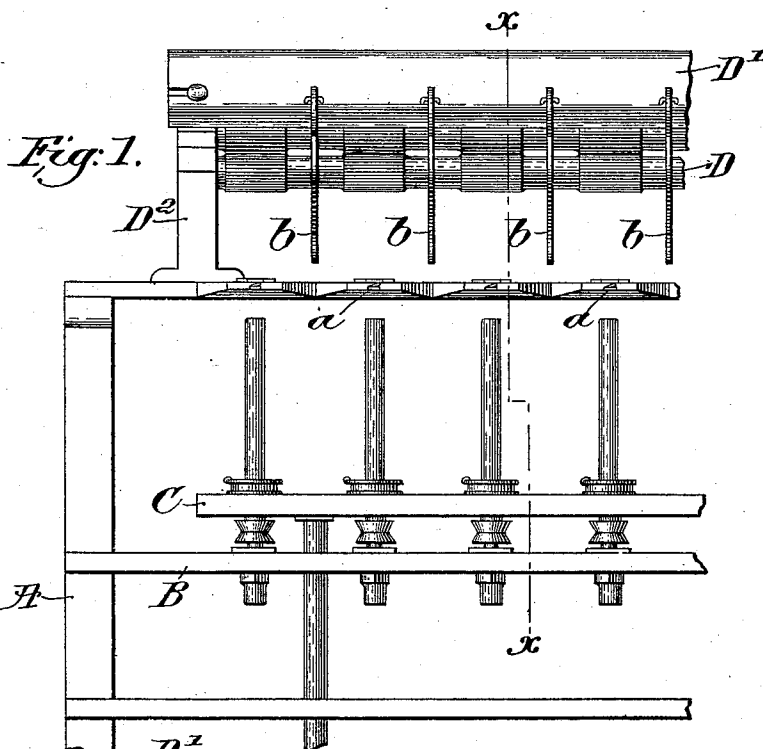


(No Model.)

J. R. MONTGOMERY.  
SPINNING OR TWISTING MACHINE.

No. 572,659.

Patented Dec. 8, 1896.



Witnesses

A. C. Harmon,  
Thomas J. Drummond,

Inventor:

John R. Montgomery,  
by Lemby Ingersoll atty.

# UNITED STATES PATENT OFFICE.

JOHN R. MONTGOMERY, OF WINDSOR LOCKS, CONNECTICUT, ASSIGNOR OF  
THREE-FOURTHS TO GEORGE M. MONTGOMERY, OF SAME PLACE, AND  
GEORGE DRAPER & SONS, OF HOPEDALE, MASSACHUSETTS.

## SPINNING OR TWISTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 572,659, dated December 8, 1896.

Application filed May 13, 1896. Serial No. 591,383. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN R. MONTGOMERY, of Windsor Locks, county of Hartford, State of Connecticut, have invented an Improvement in Spinning or Twisting Machines, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

It frequently happens that the strands of fibrous material being spun become broken between the usual delivery-rolls and the usual guide-eyes over the spindles, and the ends so formed, if not quickly discovered, become attached to other whole strands going to the spindle and break them, or two strands unite, making a larger yarn.

My invention has for its object to prevent a broken end from fouling and breaking an adjacent strand, and to do this I have combined separators with the usual drawing or delivery rolls, the said separators occupying a position between the said rolls and the usual guide-eyes.

Figure 1 in front elevation shows a sufficient portion of a spinning or twisting machine to enable my invention to be understood; Fig. 2, a section in the line *x*.

The framework A, bolster-rail B, ring-rail C, drawing or delivery rolls D, top or clearer board D', roller-stand D<sup>2</sup>, and guide-eyes *a* are and may be all as usual.

In accordance with my invention I have

placed between the front pair of rolls and the usual guide-eyes a series of separators *b*, so that in case a strand *c* breaks between the rolls and the guide-eye the broken end of said strand cannot be blown or carried aside, so as to catch on or foul, and thus break down, an adjacent strand going properly to a spindle or adhere to and travel with the unbroken strand, and thus double its size, which is very objectionable.

The separators are shown as held loosely in position by a staple *d*, driven into the top or clearer board, the separators hanging between the yarns going from the front rolls to the guide-eyes.

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

The combination with a set of drawing or delivery rolls and the top or clearer board co-operating with said rolls, of a series of separators connected loosely to the upper front end of said board and extended down in front of the said rolls to operate, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN R. MONTGOMERY.

Witnesses:

T. F. McCARTY,  
H. L. CUTLER.