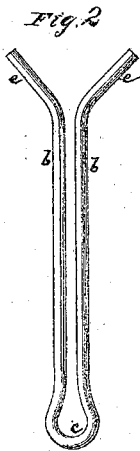
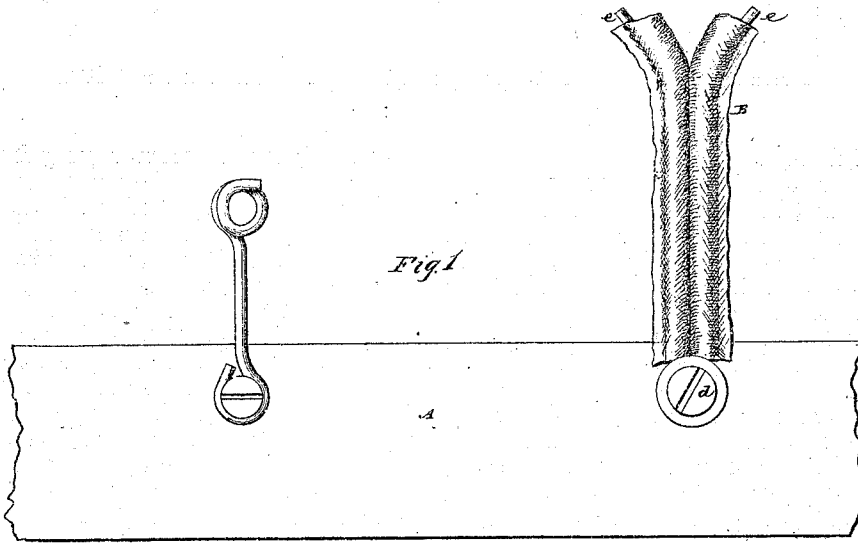


J. FULLAN.

Improvement in Guides and Cleaners for Winding Machines.

No. 122,450.

Patented Jan. 2, 1872.



WITNESSES
Frederick H. Hays
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UNITED STATES PATENT OFFICE.

JOHN FULLAN, OF NEW YORK, N. Y.

IMPROVEMENT IN GUIDES AND CLEANERS FOR WINDING-MACHINES.

Specification forming part of Letters Patent No. 122,450, dated January 2, 1872.

To all whom it may concern:

Be it known that I, JOHN FULLAN, of the city, county, and State of New York, have invented a new and useful Improvement in Guides and Cleaners for Winding Machinery; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, and in which—

Figure 1 represents a front view of a traverse-bar in part, with my improved guide and cleaner applied thereto, also showing an ordinary wire guide by way of contrast as attached thereto. Fig. 2 represents the elastic fingers of which said guide and cleaner is composed prior to the clothing of the same; and Fig. 3, a view of one of the cots or sleeves forming the clothing detached.

Similar letters of reference indicate corresponding parts throughout the several figures of the drawing.

My invention, while applicable to winding machinery generally, it will suffice here to describe as used in connection with a spooling-machine. It consists of a pair of elastic fingers formed of a bent wire pivoted to the traverse-bar below, and with its ends arranged to spread outward or laterally above, in combination with cots or sleeves, formed of woolen cloth or other suitable material, fitted or slipped over the fingers, and between which the thread to be guided and cleaned is passed. A guide and cleaner thus constructed provides alike for variation in the run of the thread between the clothed fingers at different heights to suit the winding of it on a spool or otherwise; likewise of a lateral adjustment of it to secure uniform winding, and, as a cleaner, admits of a ready renewal of the clothing, and is generally cheaper, simpler, and more efficient than other clothed guides or combined guides and cleaners as heretofore constructed.

Referring to the accompanying drawing, A represents the traverse-bar of a spooling-machine, and B my improved guide and cleaner as applied thereto. Said guide and cleaner is formed of a piece of wire, bent as represented in Fig. 2, to constitute elastic fingers *b b*, with an eye, *c*, below for attachment of the device, as by a screw or pivot, *d*, and washer, to the traverse-bar, and spread or turned outward in opposite lateral directions at its ends *e e* above, to form a mouth for the entry of the thread between the fingers, or rather between the cots or sleeves *f f*, which are applied as clothing to the fingers, and which are simply slipped over the latter, so that they can be readily renewed when required. These cots or sleeves are made of woolen cloth or other suitable soft and flexible material capable of wiping or cleaning the thread as it passes between them.

The device as thus constructed is as simple as it is efficient, and provides for every requisite adaptability both as regards any differences in construction of the machines to which it is applied and as regards the run of the thread between the clothed fingers both vertically and laterally to conform by the elongated opening between the fingers to the varying diameter of the spool or of the body of thread wound on it, and by its pivoted attachment to the traverse-bar providing for its lateral adjustment to insure a uniform winding of the thread over the whole length of the spool in opposite directions successively.

What is here claimed, and desired to be secured by Letters Patent, is—

A guide and cleaner formed of elastic fingers *b b* having an eye, *c*, and spread outer ends *e e*, and the cots or sleeves *f f*, substantially as specified.

JOHN FULLAN.

Witnesses:

FRED HAYNES,
R. E. RABEAU.

(17)