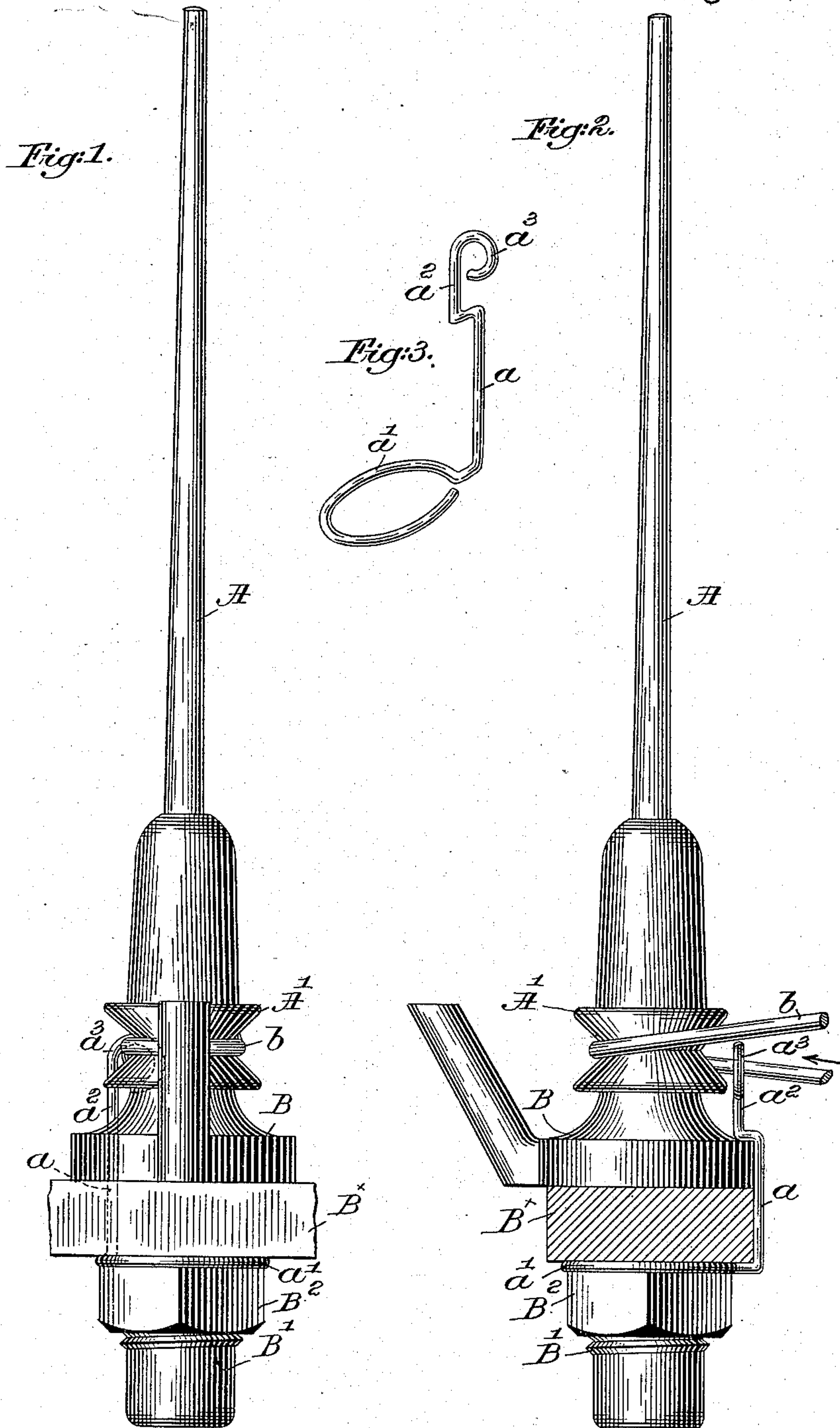


(No Model.)

J. GREGSON & C. J. MURRAY.
BAND GUIDE FOR SPINNING SPINDLES.

No. 565,680.

Patented Aug. 11, 1896.



Witnesses.
Fred S. Grunley.
Edward H. Allen.

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UNITED STATES PATENT OFFICE.

JOHN GREGSON AND CHARLES J. MURRAY, OF FALL RIVER, MASSACHUSETTS, ASSIGNORS OF ONE-HALF TO GEORGE DRAPER & SONS, OF HOPEDALE, MASSACHUSETTS.

BAND-GUIDE FOR SPINNING-SPINDLES.

SPECIFICATION forming part of Letters Patent No. 565,680, dated August 11, 1896.

Application filed May 8, 1896. Serial No. 590,664. (No model.)

To all whom it may concern:

Be it known that we, JOHN GREGSON and CHARLES J. MURRAY, of Fall River, county of Bristol, and State of Massachusetts, have
5 invented an Improvement in Band-Guides for Spinning-Spindles, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

10 The spindles in yarn-spinning frames are commonly rotated by means of flexible bands carried around whirls suitably mounted on the spindles between the bolster-rail and the bottom of the cop or bobbin and run at a
15 very high speed.

Considerable trouble is experienced from the band running off the whirl and up onto the yarn, soiling and otherwise damaging the latter, and this invention has for its object
20 the production of a cheap and simple device for guiding or acting upon one side of the driving-band to prevent it from running off of the whirl.

Our invention will be hereinafter fully described in the specification, and particularly
25 pointed out in the claims.

Figure 1 is a front elevation of a spindle and its bearing mounted upon the bolster rail or support, with a band-guide embodying
30 my invention applied thereto. Fig. 2 is a side elevation thereof, and Fig. 3 is a perspective view of the band-guide detached.

The spindle A, sleeve-whirl A', bolster-case B, having a threaded shank B' to extend
35 through the rail B^x, and the nut B² to secure the bolster-case in place, are of usual and well-known construction.

We have herein shown the band-guide as made of wire, bent between its ends to form
40 an offset α to inclose the rail and part of the bolster-case, the lower end of the guide being bent laterally to form a loop or foot α' , through which the shank or lower end B' of the bolster-case is extended. The foot is firmly held
45 between the under side of the rail B^x and the

retaining-nut B², as clearly shown in Figs. 1 and 2. Above the offset α the wire of the guide is extended upward to a suitable height, as at α^2 , and then bent over to form a loop or
50 open ring α^3 in a vertical place, substantially at right angles to the offset α . The band-loop α^3 is thus brought up to a height about the center of the whirl A', and one side of the driving-band b is passed through the loop,
55 the direction of movement of the band being indicated in Fig. 2 by the arrow.

It will be evident that the loop α^3 normally offers no obstruction to the band, but should
60 the latter rise on the whirl it cannot run off, as the guide-loop prevents it from rising high enough to do so.

The guide may be moved around relative to the spindle by loosening the nut B² until
65 the loop α^3 is in proper position to receive the band b .

Having fully described our invention, what we claim, and desire to secure by Letters Patent, is—

1. A spindle, its whirl, the bolster-case, its support, and a retaining-nut, combined with
70 a band-guide having a lateral foot surrounding the bolster-case between its support and the nut, a band-receiving loop adjacent the whirl, and an offset body portion to receive the bolster-case support, substantially as described.
75

2. A band-guide for spinning-spindles, having a laterally-extended loop-like supporting-foot at its lower end, and a band-receiving
80 loop open at its under side and located in a plane at right angles to the foot, substantially as described.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

JOHN GREGSON.

CHARLES J. MURRAY.

Witnesses:

WILLIAM F. STOREY,
HENRY H. EARL.