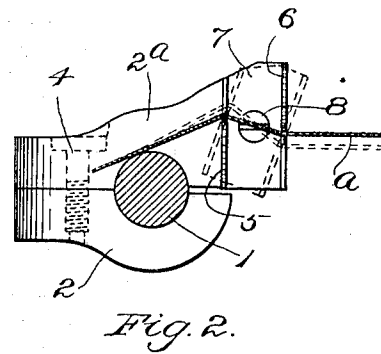
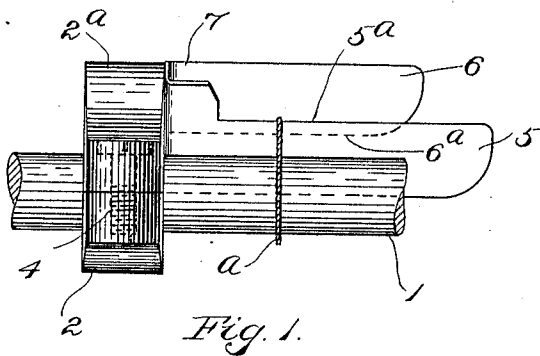
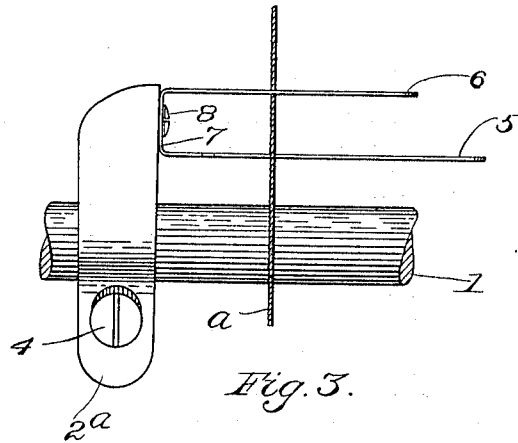


W. T. C. HARRINGTON.
YARN GUIDE AND CLEARER.
APPLICATION FILED JULY 11, 1912.

1,048,830.

Patented Dec. 31, 1912.



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UNITED STATES PATENT OFFICE.

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YARN GUIDE AND CLEARER.

1,048,830.

Specification of Letters Patent.

Patented Dec. 31, 1912.

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To all whom it may concern:

Be it known that I, WILLIAM T. C. HARRINGTON, a citizen of the United States, residing at Fall River, in the county of Bristol, State of Massachusetts, have invented a certain new and useful Improvement in Yarn Guides and Clearers, of which the following is a specification, reference being had therein to the accompanying drawings.

10 The invention consists in an improved yarn-guide and clearer for use in spoolers and other like machines.

The invention in its preferred form is illustrated in the drawings.

15 In the latter, Figure 1 shows in front elevation a yarn-guide and clearer embodying the invention, and a portion of the supporting-rod for the same. Fig. 2 is a view looking from the right in Fig. 1. Fig. 3 is a top view of the parts shown in Figs. 1 and 2.

20 Having reference to the drawings,—at 1 is represented a portion of the horizontal supporting-rod employed in a spooler for the support of one or more yarn-guides and clearers. This rod usually in practice has traversing movement communicated to the same for the purpose of properly distributing upon the receiving spool or spools the yarn or yarns which are being wound thereon. At 2 is a block or bracket which is mounted upon the rod 1, the said block or bracket having a socket made transversely therethrough, of a size to receive and fit the supporting-rod, the said socket being split, and a screw 4 being provided to draw the sides of the socket toward each other to clamp the block or bracket tightly upon the supporting-rod. After loosening the screw 4 the block or bracket may be shifted along the rod or be turned around the same. By the tightening of the screw 4 the block or bracket may be secured upon the rod in the required position of axial or angular adjustment. At 5 and 6 are the blades of my yarn-guide and clearer, 5^a and 6^a being the working edges of the said blades. The latter extend in parallel directions from an end-piece 7. The blades and end-piece may conveniently be made integral, of one piece of sheet-metal, cut to the required shape for the blades and end-piece and bent into U-shape, the end-piece forming the bend or bight of the U. The blade member is attached to the block or bracket 2 by means of a screw 8, the latter passing through a

hole in the end-piece 7 and entering a threaded hole tapped in the block or bracket. On tightening up this screw the end-piece is clamped against one side of the block or bracket by the flanged head of the screw. 60 The upper edge of the blade 5 and the under edge of the blade 6 are the working edges thereof. The working edges of the two blades lap past each other, so that a yarn *a* passing through the guide and clearer will be supported by the edge 5^a of the blade 5 but deflected downward by the edge 6^a of the opposite blade 6. Consequently as the yarn is drawn forward to the receiving spool and wound upon the latter by the rotation thereof its tension causes it to bear against the edges of both blades. The blades are separated somewhat transversely, and the space above the blade 5, and more particularly that beneath the blade 6, are entirely open and unobstructed, there being nothing between the two blades or at the rear of blade 5 and beneath blade 6 to constitute an obstruction or catch lint or other particles detached from the yarn. The blades may be angularly adjusted around the screw 5 so as to set the working edges 5^a and 6^a higher or lower with respect to each other. Thus the said blades may be set or adjusted so as to bend or deflect the yarn more or less sharply around their working edges. One changed adjustment of the blades is indicated in dotted lines in the drawings. By this angular adjustment of the blades about an axis parallel with the latter the clearing action of the device may be regulated, and also the tension of the yarn in being wound on the receiving spool.

My device acts to scrape and detach impurities, etc., from the yarn being operated upon, without any tendency to positively grip and hold the yarn. Consequently it will not positively hold the yarn so as to occasion breakage of the latter when a slug or piecing presents itself. A slug or piecing will pass both working edges without being caught and held.

I claim as my invention:—

1. In a yarn-guide and clearer, in combination, a supporting-bracket, blades having the working edges thereof in different planes parallel with each other and facing in opposite directions, said blades adjustable in unison around a common axis which is parallel with the blades to vary the angle

of deflection of the yarn in passing the blades.

2. In a yarn-guide and clearer, in combination, a supporting-bracket, a pair of blades and connecting end-piece, and means for connecting said end-piece to the bracket with capacity for angular adjustment to vary the angle of deflection of the yarn in passing the working edges of the blades, the said edges facing oppositely.

3. In a yarn-guide and clearer, in combination, a supporting-bracket, upper and lower blades 5, 6, having the working edges

5^a, 6^a, thereof faced in opposite directions, a connecting end-piece 7 integral with said blades, and means for pivotally clamping said end-piece to the bracket whereby the blades may be angularly adjusted to vary the angle of deflection of the yarn in passing the said working edges.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM T. C. HARRINGTON.

Witnesses:

JOHN M. WHITEMORE,

DANIEL J. MCNERNEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."