

A. J. HAY.
YARD GUIDE FOR DOUBLING OR TWISTING MACHINES.
APPLICATION FILED APR. 6, 1909.

981,082.

Patented Jan. 10, 1911.

Fig. 1.

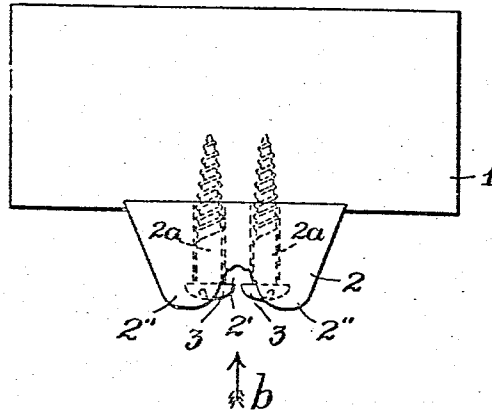


Fig. 2.

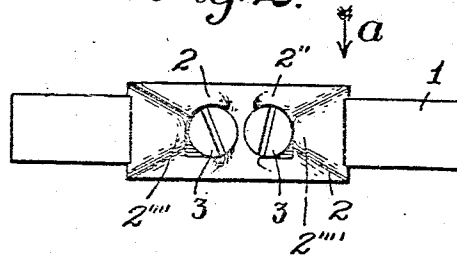
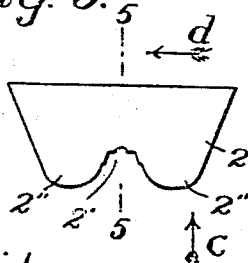


Fig. 3.



Witnesses

R. D. Tolman.
W. H. Hall.

Fig. 4.

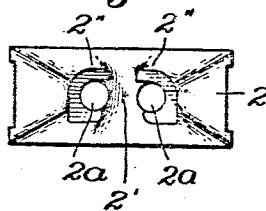
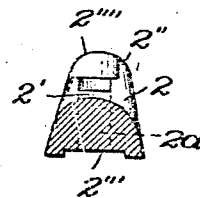


Fig. 5.



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YARN-GUIDE FOR DOUBLING OR TWISTING MACHINES.

981,082.

Specification of Letters Patent.

Patented Jan. 10, 1911.

Application filed April 6, 1909. Serial No. 488,194.

To all whom it may concern:

Be it known that I, ALEXANDER J. HAY, a subject of King Edward VII of Great Britain, residing at Woonsocket, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Yarn-Guides for Doubling or Twisting Machines, of which the following is a specification.

My invention relates to a yarn-guide for doubling and twisting machines, and the object of my invention is to improve upon the construction of a yarn guide for doubling and twisting machines as now ordinarily made, and to provide a yarn guide preferably of non-metallic material, and preferably of porcelain, and provide means for attaching the yarn guide to the block, ordinarily hinged to the usual guide block in a doubling and twisting machine, which means act to retain the yarn in the guide.

My invention consists in certain novel features of construction of my yarn guide, to be hereinafter fully described.

Referring to the drawing:—Figure 1 is a top or plan view of a yarn guide embodying my improvements, attached to a supporting block, and looking in the direction of arrow *a*, Fig. 2. Fig. 2 is a front view of the parts shown in Fig. 1, looking in the direction of arrow *b*, same figure. Fig. 3 is a top view of the yarn guide block, detached. Fig. 4 is a front view, looking in the direction of arrow *c*, Fig. 3. Fig. 5 is a section, on line 5, 5, Fig. 3, looking in the direction of arrow *d*, same figure.

In the accompanying drawing, Figs. 1 to 5, inclusive, 1 is a block, ordinarily made of wood, which corresponds to the block ordinarily used to hold the wire guide-eye used in spinning. The block 1 may be hinged to a guide-board, not shown.

My improved yarn guide consists of a block 2, preferably made of vitreous or porcelain material, and preferably recessed in the direction of its length upon its rear edge, as shown at 2''' in Fig. 5, to receive the edge of the block 1, and prevent any lateral movement of the block 2. The block 2 has a central transverse recess or depression 2' therein, in the direction of the thickness or height of the block, which recess forms a guide for the yarn. On the front edge of the block, on the upper side thereof, and on each side of the central recess 2', is an outwardly extending

projection or lip 2''. The lip 2'' may also extend around the ends of the block, at the outer edge thereof, as shown at 2''', Fig. 5. There are preferably two holes or openings 2^a extending through the block 2, for two attaching screws 3. The attaching screws 3 preferably have rounded heads, and when the screws are screwed into the block 1, to secure the block 2 thereto, as shown in Fig. 1, the heads of the screws will come within the projecting lips 2' and 2''', as shown in Fig. 1, and there will be a slight opening or space between the contiguous edges of the heads to allow of the passage of the yarn between said heads. There will be a space between the inner edge of the recess or guide 2' and the inner side of the heads of the screws 3, as shown in Fig. 1, and the inner side of the heads of the screws extending at right angles to the shanks of the screws, the vibrating yarn, as the twisting or spinning machine operates, will engage the inner side of the heads of the screws, said heads acting to retain the yarn, and will be thrown back into the hollowed recess or guide portion 2' in the block 2.

The advantages of my improvements will be readily appreciated by those skilled in the art.

I provide a yarn guide of very simple construction, which is adapted to be used on doubling and twisting machines where the yarn is wet, or where the yarn is dry. I combine with the yarn guide, means for attaching the yarn guide to the supporting block, and also means for retaining the yarn within the central recess or guide in the guide block.

It will be understood that the details of construction of my improvements may be varied if desired, and one, or more than one attaching screw may be used to secure the guide block to the supporting block.

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

1. A yarn guide, comprising a block having a recessed part or guide for the yarn, and a screw or screws for securing the block in position, and extending through a hole or holes in said block, and the heads of the screws forming means for retaining the yarn within the recessed part of the block.

2. The combination with a yarn guide, comprising a block having a recessed part or guide for the yarn, and outwardly extend-

ing projections or lips on the outer edge of
said block, of a screw or screws extending
through a hole or holes in said block, for se-
curing the block in position, and said screw
5 or screws extending within the outer projec-
tions or lips on the outer edge of said block,
and the heads of the screws forming means

for retaining the yarn within the recess or
guide part of the block.

ALEXANDER J. HAY.

Witnesses:

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WM. C. HIGGINBOTTOM.