L. B. REID.

ROLLER BAR TIP FOR SPINNING MACHINES.

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1,415,707. Patented May 9, 1922.

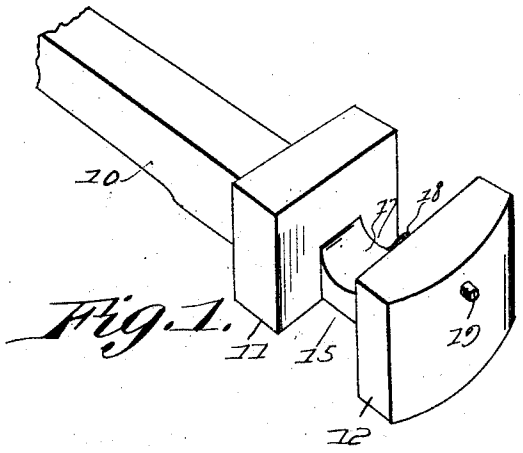


Fig. 1.

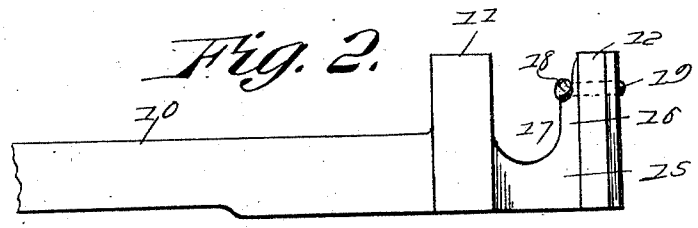


Fig. 2.

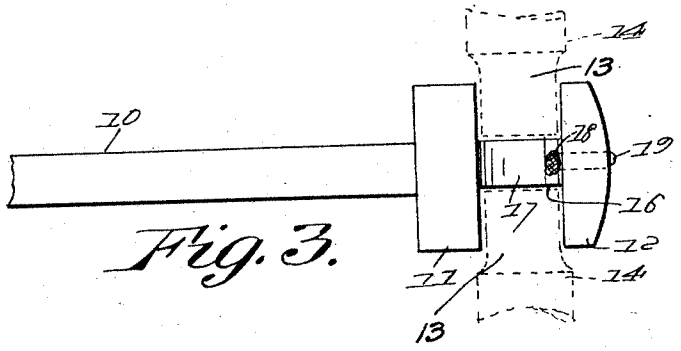


Fig. 3.

Inventor

L. B. Reid,

By

Attorney

UNITED STATES PATENT OFFICE.

LESTER B. REID, OF GAFFNEY, SOUTH CAROLINA.

ROLLER-BAR TIP FOR SPINNING MACHINES.

1,415,707. Specification of Letters Patent. Patented May 9, 1922.

Application filed August 16, 1921. Serial No. 492,649.

To all whom it may concern:

Be it known that LESTER B. REID, a citizen of the United States of America, residing at Gaffney, in the county of Cherokee and State of South Carolina, has invented new and useful Improvements in Roller-Bar Tips for Spinning Machines, of which the following is a specification.

The object of the invention is to improve the construction of the roller bar tips for spinning machines to avoid the disadvantages incident to the use of the tips commonly employed, wherein the accumulatiton of lint at the terminals of the bearing or pressure rollers and between the ends of the reduced journals or trunnions of said rollers and the webs of the commercial form of roller bar tips causes a choking or interference with the free movement of the rollers which are usually leather covered, and hence an irregularity in the operation of the spinning machine; and with this object in view the invention consists in a construction and combination of parts of which a preferred embodiment is shown in the accompanying drawings, wherein:

Figure 1 is a view in perspective of a roller bar tip embodying the invention.

Figure 2 is a side view of the same.

Figure 3 is a plan view showing in dotted lines the arrangement of the adjacent ends of the rollers.

The tip as in the ordinary practice is carried by a bar 10 and consists of the inner and outer heads 11 and 12 which are spaced apart to form a guide for the reception of the adjacent trunnions or reduced terminals 13 of the floating or bearing rollers 14 which ordinarily are leather covered and rest upon the roving in traversing the fluted or steel rollers, said heads being connected by a web 15 which in the ordinary practice is extended from the lower to the upper edges of the heads to maintain a separation of the extremities of said roller trunnions or journals which, however are free to move vertically or longitudinally of the guides formed by the interval or space between said heads.

In the ordinary practice the lint winds around the trunnions or terminals of the rollers and working into the ends thereof accumulates between said ends and the side surfaces of the web and not only interferes with the floating or upward and downward movement of the rollers but jams and chokes them against rotary movement, with the result that the strands of yarn are broken or the operation of the machine is otherwise retarded.

In the construction illustrated the web 15 is disposed only at the lower portion or adjacent to the lower edges of the heads, being concaved or cut away at its upper side to leave an open space between the adjacent ends of the trunnions or terminals of the rollers, said web being extended upward at one side to form a narrow rib 16 constituting a shoulder sufficient to prevent the endwise displacement of the rollers, and as a consequence the lint working into the ends of the trunnions or terminals of the rollers is received in the cut away portion or space 17 between the heads and above the web where it can be supplied with lubricating oil by means of a wick 18 which is fitted in and extends through an opening 19 in the outer head.

With this arrangement of the parts the lint is free to work off of the ends of the trunnions or journal portions of the rollers and even should the same accumulate to a considerable extent in the space provided for the reception thereof it is moistened by the lubricant supplied by the wick and therefore is rendered harmless and incapable of interfering with the movement either vertically or rotatively of the rollers.

It will be obvious that the ordinary form of roller bar tip wherein the web extends continuously from the lower to the upper edges of the heads may readily be modified to produce the improved tip by cutting away a portion of the web to form the recess 17 while leaving a sufficient portion of the web to afford stop shoulders 16 to limit the endwise movement of the rollers.

Having described the invention, what is claimed as new and useful is:—

1. A roller bar tip for spinning machines having spaced heads forming guides for the terminals of the bearing rollers, the space between the heads being open between the ends of the rollers and one of the heads having stop shoulders for limiting the endwise movements of the rollers.

2. A roller bar tip for spinning machines having spaced heads forming guides for the terminals of the bearing rollers, the heads being connected adjacent to one edge and one of them being provided with a rib forming shoulders to limit the endwise movement of the rollers.

3. A roller bar tip for spinning machines having spaced heads forming guides for the terminals of the bearing rollers, the heads being connected adjacent to their lower edges by a web which is recessed between the extremities of the rollers for the reception of lint clinging to the rollers.

4. A roller bar tip for spinning machines having spaced heads forming guides for the terminals of the bearing rollers, the heads being connected adjacent to the lower edges by a web which is recessed between the extremities of the rollers for the reception of lint clinging to the rollers, lubricating means being provided to feed the said recess.

5. A roller bar tip for spinning machines having spaced heads forming guides for the terminals of the bearing rollers, the heads being connected adjacent to their lower edges by a web which is recessed between the extremities of the rollers for the reception of lint clinging to the rollers, a lubricating wick being disposed in said recess.

6. A roller bar tip for spinning machines having spaced heads forming guides for the terminals of the bearing rollers, the heads being connected adjacent to their lower edges by a web which is recessed between the extremities of the rollers for the reception of lint clinging to the rollers, one of the heads being provided with an opening in which is fitted a lubricating wick extending into said recess.

In testimony whereof he affixes his signature.

LESTER B. REID.