

Appliance for Cleaning the Delivery-Rollers of Mule Spinning and Twisting Frames.

Application filed September 3, 1907. Serial No. 391,362.

To all whom it may concern:

Be it known that I, William Arthur Cordingley, a subject of the King of Great Britain and Ireland, and resident of Pudsey, Yorkshire, have invented certain new and useful Improvements in Appliances for Cleaning or Clearing the Delivery-Rollers of Mule Spinning and Twisting Frames, for which I have obtained a patent in Great Britain, No. 863, bearing date January 7, 1907, of which the following is a specification.

This invention relates to an improved construction of appliance designed for application to and use in combination with the delivery rollers of mule spinning and twisting frames and nip or retaining and delivery rollers generally with the object of preventing roller laps or fiber being wound round such rollers and whereby the latter are retained in a perfectly clean condition.

The invention consists of a wooden bar on one side of which is fixed a strip of felt or woven fabric and passing through the bar are two or more pins or rods which act as holding devices retaining the cleaner in correct position in relation to the roller to be cleared.

Referring to the drawings which form a part of this specification—Figure 1 is an end elevation of the improved cleaning device shown applied to a roller. Fig. 2 is an end elevation of the improved cleaning device before application to a roller. Fig. 3 is a front elevation of Fig. 2.

According to this invention I employ a bar or strip of wood 1 to one side of which is nailed or otherwise secured a strip of felt or woven fabric 2 which slightly overlaps one edge of the strip 1. Passing through the bar or strip 1 or secured to same are two or more wire pins or short rods 3—3 which act as retaining devices for the appliance. The strip 2 is folded double, and one fold is secured to the bar 1. The other fold bears against the roller, and the loop is arranged to the rear in the direction of the motion of the roller and projects over the rear edge of the said bar, so that anything adhering to the roller is cleaned off by contact with the loop which bears on the roller with an elastic pressure.

The device is applied to the roller 4 in the following manner:—The rods or pins 3—3 when straight (see Figs. 2 and 3) are passed between the roller 4 and the supporting rail 6 of the top roller bearer 5 and the ends of the pins 3—3 are then bent over the rail 6 (see Fig. 1) and the strip 2 on the covered edge of the bar or strip of wood 1 is drawn to and retained in close contact with the surface of the roller 4 which is cleaned thereby without the passage of the yarn or ends being interfered with.

If the device is applied to the delivery rollers of a twisting or other machine in which there is not any rail 6 then such a rail is specially provided.

The device effectually cleans the roller to which it is applied and also prevents the formation of roller laps in the event of broken ends.

The strips 1 are made in lengths suitable to the roller or rollers to which they are applied or to the rails to which they are attached.

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

The combination, with a revolvable roller, and a supporting rail arranged on one side of the said roller, of a bar provided with a cleaning strip of soft material for bearing against the said roller, and rods of flexible material secured to the said bar at one end and having their free end portions bent over the said rail, said rods affording a means for adjusting the position of the said cleaning strip and regulating its pressure against the said roller.

In witness whereof I have hereunto set my hand in presence of two witnesses.

William Arthur Cordingley.

Witnesses:

J. B. Howard,
Louis Wardle.