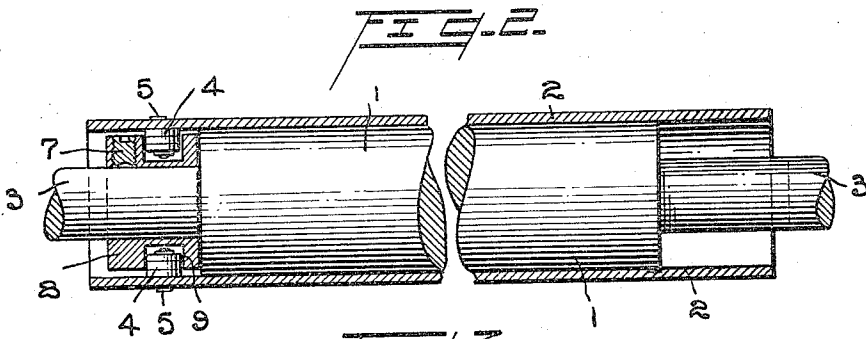
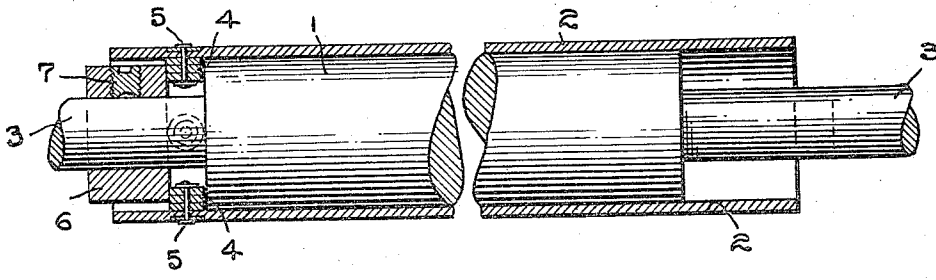
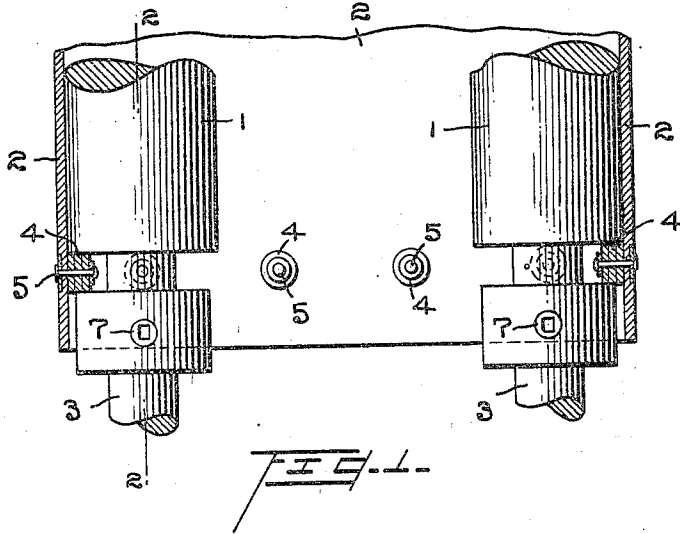


H. M. TAYLOR.  
 APRON HOLDING ATTACHMENT FOR CARDING MACHINES.  
 APPLICATION FILED JULY 24, 1915.

1,182,331.

Patented May 9, 1916.



Inventor  
 Henry M. Taylor,

WITNESSES.

*C. R. Ziegler*  
 C. R. Ziegler.

By *Joshua P. H. Potts*  
 His Attorney

# UNITED STATES PATENT OFFICE.

HENRY M. TAYLOR, OF PHILADELPHIA, PENNSYLVANIA.

APRON-HOLDING ATTACHMENT FOR CARDING-MACHINES.

1,182,331.

Specification of Letters Patent.

Patented May 9, 1916.

Application filed July 24, 1915. Serial No. 41,774.

*To all whom it may concern:*

Be it known that I, HENRY M. TAYLOR, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Apron-Holding Attachments for Carding-Machines, of which the following is a specification.

My invention relates to improvements in apron holding attachments for carding machines, the object of the invention being to provide improved means located on the carding roll shafts, and cooperating with buttons secured to the inner face of the apron to prevent lateral creeping of the apron on the rolls.

Rubbing aprons which are used on yarn condensers of carding machines receive a lateral movement as well as a longitudinal movement, and it has been a difficult matter to maintain the aprons in proper position relative to the rolls because of their tendency to creep laterally, and it is the purpose of my invention to provide simple and efficient means which may be used in connection with rolls and aprons in ordinary use, and which will entirely overcome the lateral creeping tendency and insure a proper positioning of the apron at all times.

With these and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts as will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings: Figure 1 is a fragmentary sectional plan view illustrating my improvements. Fig. 2 is a view in longitudinal section on the line 2-2 of Fig. 1, both ends of the roll being shown, and Fig. 3 is a view similar to Fig. 2 illustrating a modification.

1, 1, represent the rolls and 2 the rubbing apron of a carding machine.

3, 3, are the roll shafts one of which will constitute the driver for imparting movement to the apron. On the inner face of the apron 2, adjacent one end thereof, buttons 4 are secured. I term these parts 4 "buttons", because they are preferably round and are preferably made of leather secured to the apron by rivets 5. A longitudinal series of buttons is provided at one end of the apron, and these buttons are spaced an

equal distance apart, and an equal distance from the end of the apron.

6, 6, represent my improved collars which are preferably of metal, and which fit the shafts 3, 3, and which are secured to turn with the shafts by means of set screws 7 carried by the collars and jammed against the shafts. These collars 6 are located within the ends of the apron, and are in such position that they are engaged at their inner edges by the buttons 4, so that as the apron moves and the shafts revolve, the buttons in turn ride through the space between the ends of the rolls 1 and the collars 6, and the lateral movement of the apron on the rolls is prevented. In other words, the collars and ends of the rolls act as guides for the buttons 4, and the buttons are so close one to the other that there is always at least one button in engagement with the collar and roll end, so that at all times the apron is securely held against longitudinal displacement relative to the roll.

Instead of providing a smooth collar as shown in Figs. 1 and 2, I might employ a collar 8 having an annular groove 9 therein as shown in the modification in Fig. 3. In this form of my invention, the buttons 4 will move through the grooves 9, but in any event the collar will act to prevent the lateral movement of the apron by reason of the engagement of the buttons with the collars.

As above stated, the buttons 4 are preferably of leather, although they may be of other material, but preferably non-metallic, so that they do not wear against the metal rollers, do not create any noise, and yet securely hold the apron relative to the roll.

With my improvements a single set or series of buttons is employed at one end only of the apron, and yet the apron is securely held.

Various slight changes might be made in the general form and arrangement of parts described without departing from my invention, and hence I do not limit myself to the precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claims.

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

1. In a carding machine, the combination with a pair of parallel roll shafts, and cylin-

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drical rolls on the shafts, of collars secured on the shafts adjacent the ends of the rolls, an endless apron mounted on the rolls and at one end projecting over the collars, and a series of devices on the inner face of said apron engaging the collar and preventing lateral movement of the apron on the rolls, substantially as described.

2. In a carding machine, the combination with a pair of parallel roll shafts, and cylindrical rolls on the shafts, of removable collars secured on the roll shafts and spaced from the ends of the roll shafts, an endless apron on the rolls and projecting at one end

over the collars, and an endless series of non-metallic buttons secured to the inner face of the apron, movable in the space between the ends of the rolls and the collars and preventing lateral movement of the apron, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HENRY M. TAYLOR.

Witnesses:

C. E. POTTS,

MARIE JACKSON.

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