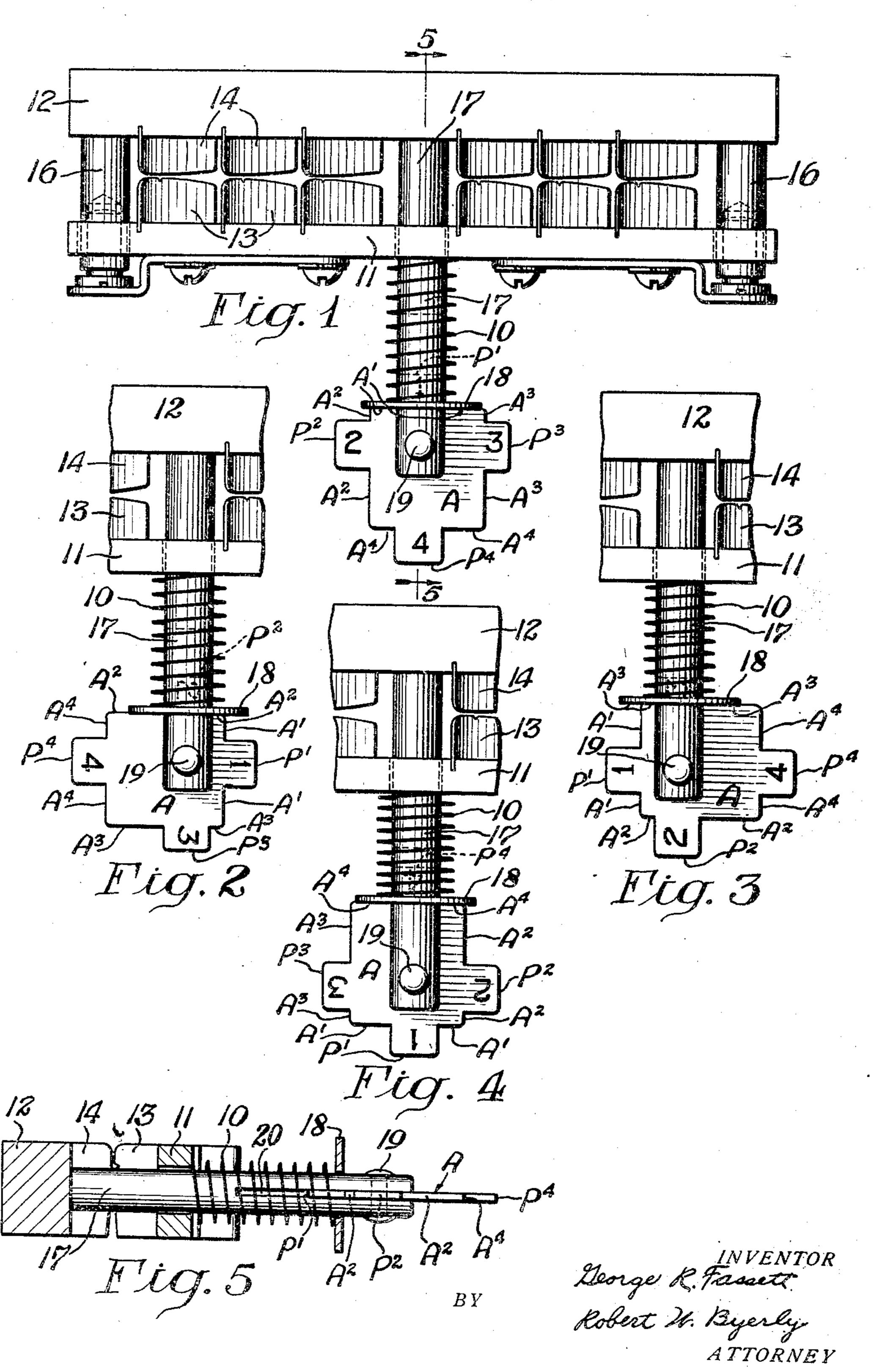
YARN CLEANER

Original Filed Dec. 5, 1929



## UNITED STATES PATENT OFFICE

GEORGE R. FASSETT, OF ATLANTA, GEORGIA, ASSIGNOR TO ECLIPSE TEXTILE DEVICES, INC., OF ELMIRA, NEW YORK, A CORPORATION OF NEW YORK

## YARN CLEANER

Original application filed December 5, 1929, Serial No. 411,804. Divided and this application filed February 5, 1931. Serial No. 513,493.

This invention relates to yarn cleaners of the type in which a cleaning member is yieldably urged against the yarn.

This application is a division of my co-5 pending application, Serial No. 411,804, filed

December 5, 1929.

In order that the invention may be clearly understood, I will describe a specific yarn cleaner embodying it, which is shown in the 10 accompanying drawing in which:

Fig. 1 is a plan view of a yarn cleaner with

my spring adjustment applied thereto; Figs. 2, 3 and 4 are fragmentary plan views

showing different adjustments of the spring 15 shown in Fig. 1; and

5—5 of Fig. 1.

other the side members 11, 12 of a yarn cleaner, so as to urge the cleaning blades 13, 14 carried by these side members towards each other and against a varn which may be passed 25 between them. In the form shown, the side 16 projecting from the side member 12 near its ends. The side member 11 is also slidable on a tension rod 17, which projects from the 30 middle of the side member 12 and carries the spring 10. One end of the spring abuts against the side member 11, while its other end has an abutment 18 slidably mounted on the tension rod 17. The abutment 18 may 35 conveniently take the form of a perforated washer as shown.

An adjustment element A is provided for thus varying the pressure exerted by the 40 spring 10 against the movable side bar 11 of the varn cleaner. The element A is pivotally mounted on the tension rod 17 by means of a pivot 19. In the form shown, the element A is a flat plate entering a transverse slot 20 in 45 the outer part of the tension rod 17 across which the pivot 19 passes.

engagement surfaces extends at both sides of the radius of the element A which is perpendicular to it. Projections P1, P2, P3, P4, project from intermediate parts of the engagement surfaces. Each projection is sym- 55 metrically located with respect to the radius of the element A which is perpendicular to the engagement surface from which that projection projects. The width of each projection is no greater than the diameter of the 60 hole in the abutment 18 and is preferably equal to the diameter of the tension rod 17.

When the smallest pressure is required on the side member 11 of the yarn cleaner, the adjustment element A is turned as shown in 65 Fig. 5 is a transverse section on the line Fig. 1 with its engagement surface A1 against the outer side of the abutment washer 18 and In the application of my invention shown with its projection P1 extending through the in the drawing, a fine wire helical compres- hole in the washer. The adjustment element 20 sion spring 10 is utilized to urge towards each is, therefore, held firmly in this position. 70 When a slightly greater spring pressure is required, the abutment washer 18 is pushed inward beyond the end of the projection P1 and the adjustment element is turned to direct its engagement edge A2 inward. The 75 member 11 is slidably mounted on two rods abutment washer 18 is then released, and is forced outwardly by the spring around the projection P2 and into engagement with the edge A2, as shown in Fig. 2. Further increases of the spring pressure may be ob- so tained by turning the adjustment member into the positions shown in Figs. 3 and 4. In each case, the abutment washer must be pushed in against the spring before the adjustment element is turned, and, in each 85 adjusted position, the adjustment element is securely held against accidental displacevarying the position of the abutment 18, and ment by the engagement of one of its projections with the abutment washer.

What I claim is:

1. The combination with a yarn cleaner having a fixed side bar carrying cleaning elements, posts projecting from said side bar near its ends and a second side bar carrying cleaning elements slidably mounted on said 95 posts, of a tension rod extending from the The adjustment element A is provided with middle of the fixed side bar and passing a plurality of engaging surfaces or edges A1, through the movable side bar, a movable A2, A3, A4, located at progressively increas- abutment on said rod, an adjustable element 50 ing distances from its axis. Each of these pivoted to said rod on an axis transverse to 5100 the axis of the rod and provided with a plurality of surfaces located at different distances from its axis and each adapted to engage said abutment, and a compression spring mounted on said rod between the movable side bar and said movable abutment.

2. The combination with a yarn cleaner having a fixed side bar carrying cleaning elements, posts projecting from said side bar near its ends and a second side bar carrying cleaning elements slidably mounted on said posts, of a tension rod extending from the middle of the fixed side bar and passing through the movable side bar, an abutment on said rod near its outer end, a compression spring mounted on said rod between the movable side bar and said abutment, and means whereby the spring may be set in any one of a plurality of pre-selected adjustments.

3. The combination with a yarn cleaner having a fixed side bar carrying cleaning elements, posts projecting from said side bar near its ends and a second side bar carrying cleaning elements slidably mounted on said posts, of a tension rod extending from the middle of the fixed side bar and passing through the movable side bar, an adjustable abutment on said rod near its outer end, a compression spring mounted on said rod between the movable side bar and said abutment, and means whereby said abutment may be locked in any one of a plurality of pre-selected positions to correspondingly adjust the pressure of said spring.

just the pressure of said spring.
In testimony whereof I have hereunto set my hand.

GEORGE R. FASSETT.

40

45

50

55

60