

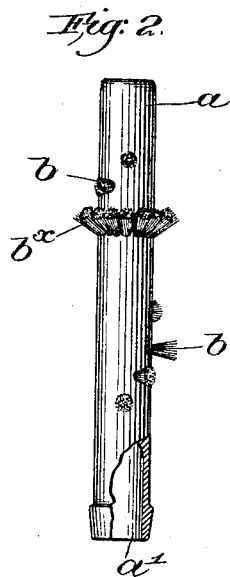
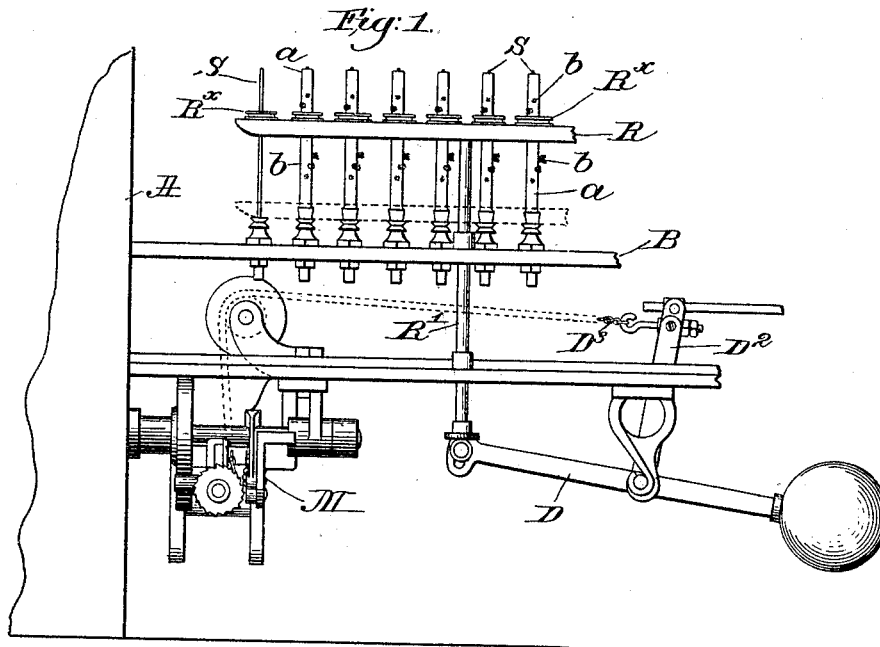
No. 649,397.

Patented May 8, 1900.

R. BURGESS.
ATTACHMENT FOR SPINNING FRAMES.

(Application filed Mar. 8, 1900.)

(No Model.)



Witnesses,
Edward F. Allen
Frank G. Hattie

Inventor,
Robert Burgess,
by Lewis Gregory,
attys.

UNITED STATES PATENT OFFICE.

ROBERT BURGESS, OF NEW BEDFORD, MASSACHUSETTS, ASSIGNOR TO THE
DRAPER COMPANY, OF PORTLAND, MAINE, AND HOPEDALE, MASSA-
CHUSETTS.

ATTACHMENT FOR SPINNING-FRAMES.

SPECIFICATION forming part of Letters Patent No. 649,397, dated May 8, 1900.

Application filed March 8, 1900. Serial No. 7,796. (No model.)

To all whom it may concern:

Be it known that I, ROBERT BURGESS, a citizen of the United States, and a resident of New Bedford, county of Bristol, and State of Massachusetts, have invented an Improvement in Attachments for Spinning-Frames, of which the following description, in connection with the accompanying drawings, is a specification; like letters on the drawings
5 representing like parts.

In ring-spinning frames the inside flanges of the rings frequently become gummed up by dirt, especially when oil is used on the rings, and it is a very difficult matter to properly clean them without removing them from the rail—a slow and tedious operation.

My present invention has for its object the production of an attachment for spinning-frames whereby the rings can be rapidly and
20 thoroughly cleaned *in situ* by the usual operation of the frame.

The attachment embodying my invention comprehends, essentially, a body, which is preferably a bobbin provided with laterally-extended flexible projections to engage the
25 interior portions of a ring when the attachment is placed on the cooperating spindle, the projections brushing over the interior surface of the ring when the spindle is rotated and thoroughly and rapidly removing
30 dirt, oil, &c.

Figure 1 is a front elevation of a portion of a spinning-frame of usual construction with my attachment in position to clean the rings; and Fig. 2 is an enlarged side elevation,
35 partly broken out, of an attachment embodying one form of my invention.

Referring to Fig. 1, the frame A, spindle-rail B, the spindles S, rotatably mounted
40 thereon and driven in usual manner, the vertically-reciprocating ring-rail R, provided with the rings R', the lifter-rods R', and the lifter-arms D, actuated by suitable winding mechanism M through the chain D³ and
45 rocker-arm D², are and may be of usual or well-known construction and operated in the usual manner.

In accordance with my invention I provide

an attachment (shown separately in Fig. 2) consisting of a body portion *a*, preferably
50 made as a bobbin of usual construction, provided with a longitudinal bore *a'* to receive and frictionally engage the spindle-blade. The body is provided with suitable laterally-extended cleaning projections to engage the
55 interior portions of the ring when the attachment is in use, and herein I have shown such projections as bristles *b*, which may be arranged in tufts suitably secured to the body
60 *a*. These tufts of bristles are shown as arranged spirally around the body and projecting laterally therefrom, and I also provide an annularly-arranged series *b*^x, Fig. 2, which
65 are shown as upwardly and outwardly inclined. The length of the projections *b* or *b*^x is sufficient to engage the interior surface and
70 flange portion of the ring when the attachment is placed on the spindle, as shown in Fig. 1, and thereupon the frame is started up, the rotation of the spindles and traverse
of the ring-rail acting to thoroughly clean the rings.

It is preferable to mount one of the attachments on each of a number of spindles to expedite the cleaning, though it will be manifest that, if desired, one at a time may be
75 used, and so, too, spinning may be carried on with some spindles while the rings of others are being cleaned.

My invention is not restricted to the precise construction herein shown and described,
80 as the same may be modified or rearranged in various particulars without departing from the spirit and scope of my invention.

Having described my invention, what I
85 claim, and desire to secure by Letters Patent, is—

1. A spindle-rail, a series of rotatable spindles mounted thereon, a traversing ring-rail provided with rings, and ring-cleaners detachably mounted on the spindles and provided with laterally-extended flexible
90 projections to engage and clean the rings as the ring-rail is traversed.

2. In a spinning-frame, spindles, a traversing
95 ring-rail having rings mounted thereon,

and a series of bobbins adapted to be mounted on the spindles and provided each with laterally-extended bristles to engage and clean the interior of the rings when the ring-rail is traversed.

5 3. An attachment for ring-spinning frames, comprising a body having a central bore to receive the spindle-blade, and a series of flexible cleaning projections arranged upon and
10 extended laterally from the bobbin, to clean the interior of a ring when the attachment is applied to its cooperating spindle.

4. An attachment for ring-spinning frames, comprising a bobbin centrally bored to receive
15 a spindle-blade and having a spirally-arranged and laterally-extended series of bristles mounted thereon to clean the interior of

a ring when applied to its cooperating spindle.

5. An attachment for ring-spinning frames, 20 comprising a bobbin centrally bored to receive a spindle-blade and having a spirally-arranged and laterally-extended series of bristles mounted thereon, and an annularly-arranged series of bristles upwardly and outwardly inclined, located above the middle of
25 the bobbin.

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

ROBERT BURGESS.

Witnesses:

J. W. WEBSTER,
P. C. HOLMES.