Dec. 22, 1953 L. J. SCHULTHEIS 2,663,074

CLOTH ATTACHING DEVICE FOR IRONER ROLLS

Filed March 6, 1952

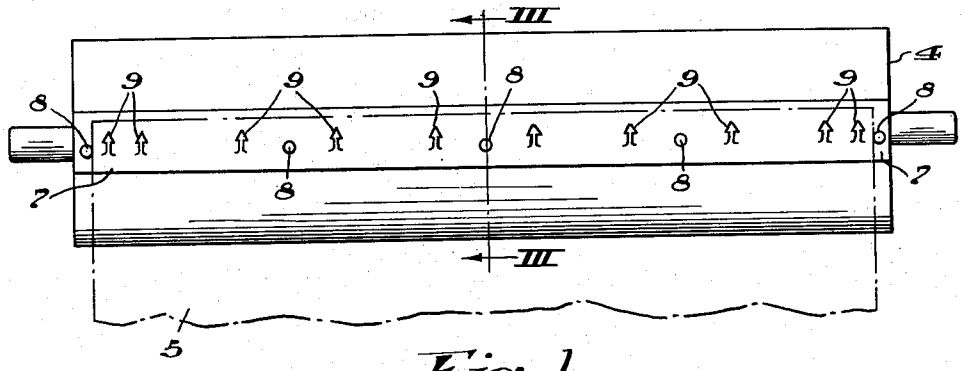


Fig. 1.

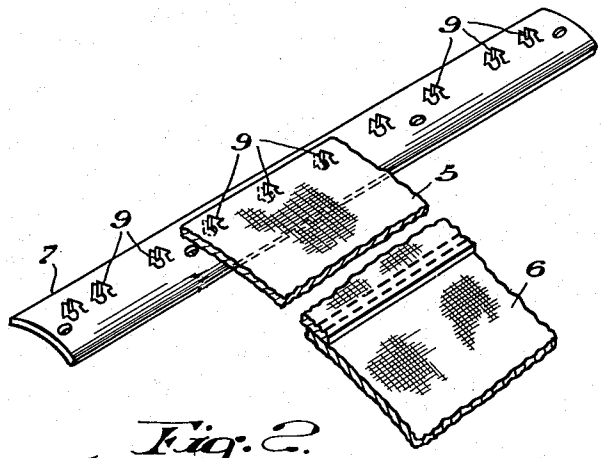


Fig. 2.

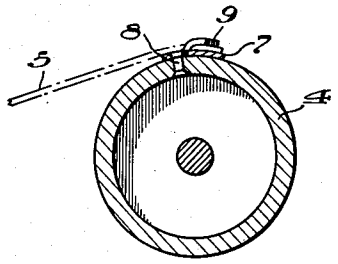


Fig. 3.

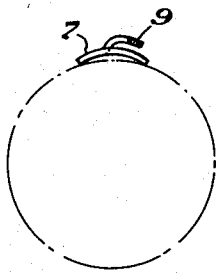


Fig. 4.

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Patented Dec. 22, 1953

2,663,074

UNITED STATES PATENT OFFICE

2,663,074

CLOTH ATTACHING DEVICE FOR IRONER ROLLS

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Application March 6, 1952, Serial No. 275,110

1 Claim. (Cl. 29—148.4)

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This invention relates to ironer rolls such as those used for flatwork, and more particularly to an anchoring strip for connecting the lead cloths or binders for roll covers and pad, to an ironer roll.

The lead cloths or binders, together with the pad or cover cloth which are mounted on an ironer machine roll, frequently have to be replaced, as these cloths and covers or pads deteriorate in use, through heating, scorching and general wear. At present, the common practice is to attach a lead cloth or binder to the ironer roll by cementing it thereto. When renewals are required, the worn pad and its cloth are torn from the roll, but hardened cement adheres to the roll and has to be chipped and ground therefrom before another lead cloth can be attached to the roll.

An object of my invention is to provide a form of fastening device for connecting lead cloths to an ironer roll, which does not require clamping screws, bolts, attaching brackets, or similar devices for securing an anchoring strip to the face of an ironer machine roll, the anchoring strip having means provided thereon for detachably connecting a lead cloth thereto.

Another object of my invention is to provide a fastener strip that is transversely curved and which is flexible so that it may readily be applied into close-fitting engagement with the peripheral surface of an ironer roll, along lines parallel to the axis of the roll.

In the accompanying drawing, Figure 1 is a plan view of an ironer machine roll having my anchoring strip applied thereto; Fig. 2 is a perspective view showing the anchoring strip with a fragmentary portion of the lead cloth connected thereto; Fig. 3 is a view taken on the line III—III of Fig. 1, and Fig. 4 is an end view of the anchoring strip showing it initially curved on a shorter radius than rolls to which it may be applied.

A conventional ironer roll is indicated by the numeral 4 to which is connected a lead cloth 5 and a roll cover or pad 6. The connection of the lead cloth to the roll is by means of an anchoring strip 7 which may suitably be two or more inches in width and of a non-corrodible metal. The strip is curved transversely, and flexible to the contour of the roll for neat fit therewith.

The strip has a series of holes drilled therein at longitudinally-spaced points for use in connecting it to the roll. This connection is effected by drilling holes into the roll and then driving flat-headed studs or rivets 8 through the holes in the strip and into the holes in the roll. These rivets are of soft metal such as copper and have shanks that are slightly oversize with respect to the holes but are tapered at their inner ends, so that when the rivets are driven by a

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hammer, they will be jammed tightly in the holes and hold the strip in place.

The strip is of flexible material such as a malleable metal of a thin gauge steel, so that it can readily be adapted to fit rolls of various diameters. To this end, the strip is initially made of such curvature that its radius is not greater than the radius of the smallest ironer roll to which the strip may conceivably be applied, as indicated in Fig. 4. In applying the strip to a roll, the studs 8 are driven tightly into the holes in the roll so as to draw the mid portion of the strip tightly against the periphery of the roll, and the entire inner surface of the strip will neatly fit against the roll.

Suitable means are provided for detachably connecting the lead cloth 5 to the strip. In the present case, I show teeth 9 struck up from the body of the strip and the cloth impaled thereon. The strip being of flexible metal, these hooks can be flattened down somewhat after the cloth is connected thereto and can be bent outwardly again when replacement of the lead cloth is required.

I claim as my invention:

The method of connecting a lead cloth to an ironer roll, which comprises forming a row of holes along an axial line in the peripheral surface of the roll, forming a cloth-holding strip of bendable material and having a curvature that is originally of shorter radius than the radius of the roll, with a row of tangentially-extending teeth alined axially thereof, and also having holes aligned along its longitudinal axis, applying the strip to the roll, in parallelism with the axis of the roll, driving headed studs through the holes of the strip and into tight-fitting engagement with the holes in the roll, to such depth that the strip is held across its entire width in snug engagement with the underlying peripheral area of the roll, impaling the lead cloth on the teeth and flattening the teeth to approximately the contour of the strip.

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