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BINDER SHEET FASTENING

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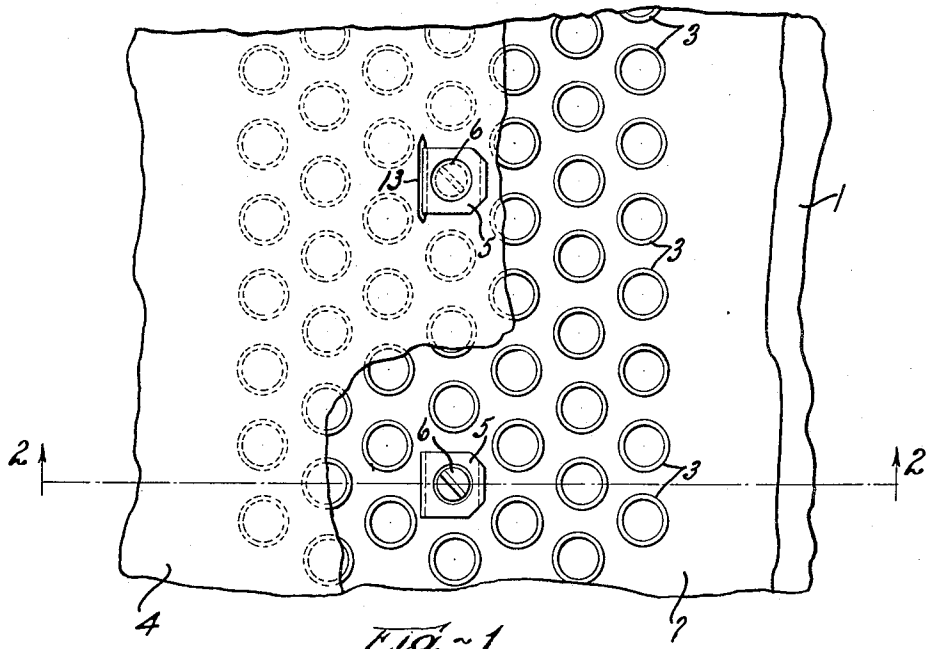



Fig. 1

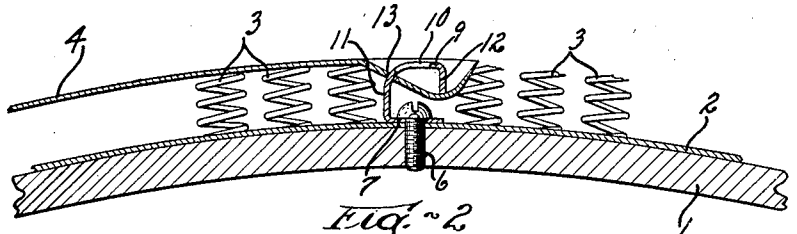



Fig. 2

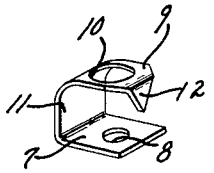



Fig. 3

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## BINDER SHEET FASTENING

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8 Claims. (Cl. 68—9)

My invention relates to fastening means and, particularly, to a fastening means for securing what is termed as a binder sheet to the padded roll of an ironing machine.

The general structure of a padded roll for an ironing machine embodies either a solid or hollow inner roll having a metallic covering, the roll being covered by a plurality of thicknesses of fabric disposed over cellulose or springs which give the roll the proper ironing resiliency. The fabric covering formed by securing one end of a strip of fabric to the roll and then winding the fabric about the roll is of such nature as to give the goods ironed the desired finish and the outer end of the fabric is left free whereby, since the roll is rotated in the direction of winding of the fabric, the fabric will be free to slip or wind tighter on the roll which will prevent bunching of the fabric in any one spot when the roll is in use.

The objects of my invention are to provide a fastening means for securely holding the binder sheet in proper position as relates to the end thereof adjacent the roll; to provide a fastening means which will permit speeding up of assembly of the padded roll by facilitating the change of binder sheets; and to provide a fastening means that will not detract from the resiliency of the padded roll and such as not to cause bunching of the binder sheet at the point where the one end thereof is secured to the roll during the time the roll is in use.

Various other objects and advantageous features of my invention will be seen in the following description and one embodiment thereof may be seen in the accompanying drawing wherein similar characters of reference designate corresponding parts, and wherein:

Fig. 1 is a fragmentary view of an ironing roll with the binder sheet removed with the exception of one end thereof which is shown secured to the roll by fastening means embodying my invention; Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1; and Fig. 3 is a perspective view of a hook constructed in accordance with my invention.

Referring to the drawing, I have shown a fastening means embodying my invention as being applied to an ironing roll 1 that may be of wood, metal, or any preferred material and, in this instance, covered with a metallic cover plate 2. In the embodiment shown, the roll is provided with a spring padding which consists of a plurality of springs 3 equally spaced apart in equally spaced rows to present as near as possible an even spring surface. However, it will be understood that any preferred type of padding may be used but it is preferred that such padding be of the resilient metal type as, for example, the springs described.

A fastening means for one end of a binder sheet 4 which may be of canvas, asbestos, or any desired material consists of hook-like members 5 that are preferably formed of sheet metal so as to embody a certain amount of spring or resiliency, the hook-like members being secured to the ironing roll 1 by means of screws 6. Each hook-like member consists of a base portion 7 having a perforation 8 through which the screw 6 is passed to secure the hook-like member to the roll 1 and a top 9 provided with a registering perforation 10 to permit passage of the screw 6 therethrough and free access to the screw. As shown, the hook-like member is of a single piece of metal and embodies a vertical wall 11 and a pointed downward extension 12 over which a plurality of slots 13 cut through the sheet 1 and arranged in a row parallel to the edge of the sheet are passed, the slots being spaced apart to register with respective hook-like members in a row.

In assembling these hook-like members or securing means in an ironing roll, at each place where a hook-like member is secured, a spring is removed or omitted and the hook-like members are so bent or formed that the upper side of each hook-like member is substantially on a level with the upper ends of the springs so that a substantially even surface will be presented to the binder sheet 4 when the sheet is wrapped about the ironing roll. After the hook-like members have been assembled, the one end of the binder sheet 4 is secured to the hook-like members in the manner hereinbefore described, namely, by passing the slots 13 over the hook-like members, and the ironing roll is rotated which will wind the binder sheet around the roll in successive laps.

Referring to the drawing and the preceding description, it will be seen that I have provided a fastening means which may be applied to an ironing roll and embodies numerous advantageous features. For instance, my fastening means permits one free end of a binder sheet to be easily and quickly secured to an ironing roll and is easily and quickly released from such attachment. Another feature resides in the fact that the fastening means or hook-like members are resilient or flexible to such an extent that functioning of the spring padding will be in no

wise affected or the action of the springs retarded. It will be noted that the hook-like members in themselves are so constructed as to be easily and quickly attached to or removed from an ironing roll.

What I claim is:

1. In combination with an ironing roll having spring padding thereon, fastening means independent of said spring padding for securing one end of a binder sheet to said roll comprising a resilient hook member, and means for securing said member to said roll.

2. In combination with an ironing roll including a resilient padding, fastening means independent of said resilient padding for securing one end of a binder sheet to said roll comprising a removable resilient hook member of substantially equal resilience with the padding and thereby having the hook-like portion thereof movable in response to compression or expansion of said padding, and a base portion for securing the fastening means to said roll.

3. In combination with an ironing roll including a padding of the resilient metal type, a fastening means independent of said padding for securing one end of a binder sheet to said roll comprising substantially U-shaped hook members of resiliency substantially equal to that of the padding, and means for securing said fastening means to said roll, said fastening means being of dimensions to have its top most portion at or below the level of the top of the padding when said fastening means is assembled with the roll.

4. In combination with an ironing roll including a padding of the multiple spring type, a fastening means independent of said springs for securing one end of a binder sheet to said roll comprising substantially U-shaped resilient hook members, and means for securing said fastening means to said roll, said fastening means being of dimensions to have its top most portion substantially level with the tops of said springs when said fastening means is in operative position.

5. In combination with an ironing roll having yielding padding thereon, fastening means for securing one end of a binder sheet to said roll comprising a resilient hook member, and means for securing said member to said roll, said hook member embodying a top, bottom, and one side wall with perforations in the top and bottom portions thereof whereby the means for securing said member to said roll may be inserted downwardly through the top of said member.

6. In combination with an ironing roll having resilient metal padding thereon, fastening means independent of said padding for securing one end of a binder sheet to said roll comprising a resilient hook member, and means for securing said member to said roll, said hook member embodying a top, bottom, and one side wall with perforations in the top and bottom portions thereof whereby the means for securing said member to said roll may be inserted downwardly through the top of said member.

7. In combination with an ironing roll having resilient metal padding thereon, fastening means for securing one end of a binder sheet to said roll comprising a resilient hook member, and means for securing said member to said roll, said hook member embodying a top, bottom, and one side wall with perforations in the top and bottom portions thereof whereby the means for securing said member to said roll may be inserted downwardly through the top of said member, and said member having a depending pointed extension on its top portion.

8. In combination with an ironing roll having resilient metal padding thereon, fastening means independent of said padding for securing one end of a binder sheet to said roll comprising a resilient hook member, and means for securing said member to said roll, said hook member embodying a top, bottom, and one side wall with perforations in the top and bottom portions thereof whereby the means for securing said member to said roll may be inserted downwardly through the top of said member, and said member having a depending pointed extension on its top portion.

JAMES V. MONTINERELLO.