

Feb. 2, 1937.

J. MIKULASEK

2,069,552

ROLL FOR IRONING MACHINES

Filed Nov. 7, 1934

Fig. 1

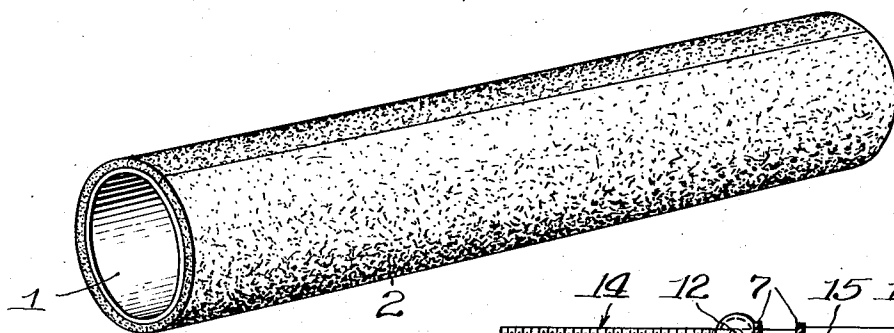


Fig. 2

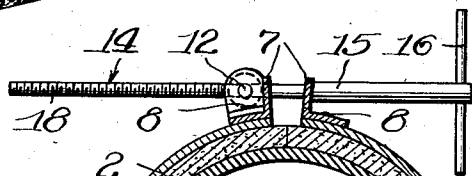
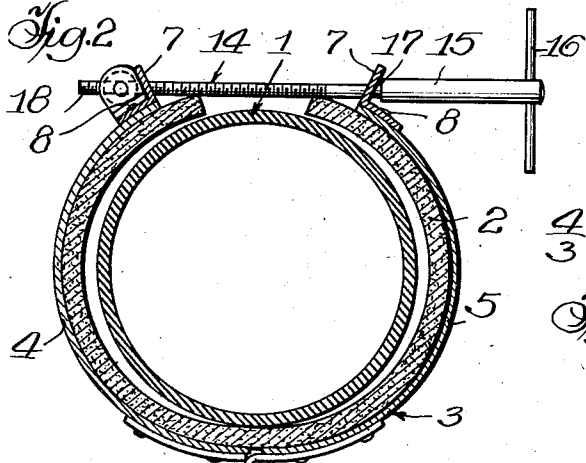


Fig. 3

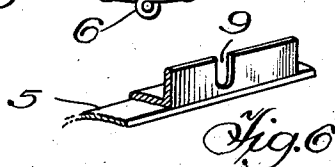


Fig. 6

Fig. 4

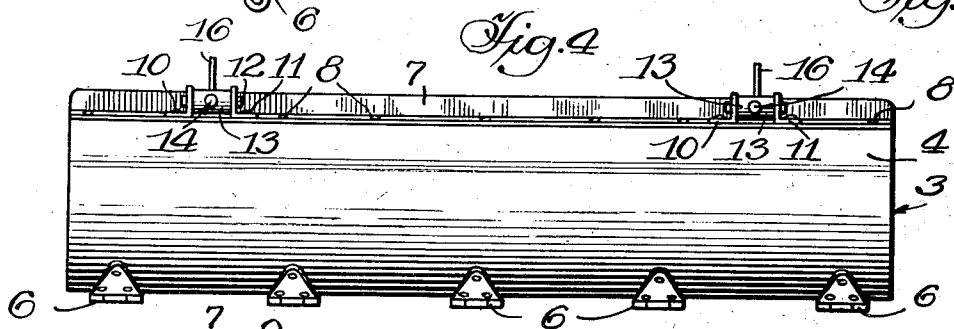
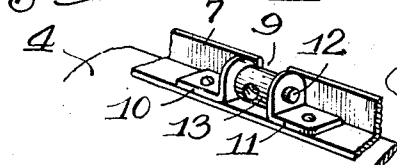


Fig. 5



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2,069,552

ROLL FOR IRONING MACHINES

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Application November 7, 1934, Serial No. 751,825

2 Claims. (Cl. 154—1)

The invention relates to a cork padding or covering for ironer rolls and more particularly to the means and method of applying the same.

Among the objects of the present invention is to provide a novel roll construction and means and method of applying a padding or covering such as cork or the like to an ironer roll.

A further object of the invention is the provision of cork padding or covering and novel clamping means for applying said padding to an ironer roll.

Another object of the invention is the provision of a novel means and method of wrapping and retaining during the setting and curing operation, of a cork padding or covering on an ironer roll.

Further objects are to provide a construction of maximum simplicity, efficiency, economy and ease of assembly, replacement, operation and maintenance; and such further objects, advantages and capabilities as will later more fully appear and as are inherently possessed thereby.

The invention further resides in the combination, construction and arrangements of parts illustrated in the accompanying drawing, and while there is shown therein a preferred embodiment, it is to be understood that the same is susceptible of modification and change and comprehends other details and constructions without departing from the spirit of the invention.

In the drawing:

Figure 1 is a view in perspective of the novel cork padding or covering on the ironer roll.

Fig. 2 is a view in vertical cross-section of the cork padding or covering and clamp as the padding is being affixed to the roll.

Fig. 3 is a view similar to Fig. 2 but with the padding affixed or clamped in final position.

Fig. 4 is a view in side elevation of the novel clamping means.

Figs. 5 and 6 are fragmentary views in perspective of details of the clamping means.

Referring more particularly to the disclosure in the drawing, the ironer roll generally comprises a metal cylinder 1 adapted to be mounted and rotated in any suitable manner. Upon this roll is provided a padding or covering 2 forming a resilient body adapted to yield under embossed embroidery and thereby permit the characters or figures to stand out when ironed, and also to yield to buttons and the like to prevent their being broken under the ironing pressure, as well as prevent the ironing shoe which is normally brought into ironing engagement with the

roll and generally formed of metal, from being scratched or otherwise damaged. The roll must at the same time be firm enough to produce a good finish on the clothes or articles being ironed.

The padding or covering of the present invention is preferably cork formed in a sheet of suitable thickness. This sheet is mounted in a manner to insure its being permanently and properly affixed to the metal roll. In order to so mount the padding or covering the invention comprehends the provision of a clamping means or form 3 comprising semi-cylindrical sections 4 and 5 suitably connected along one edge by means of hinges 6.

Adjacent their opposite edges, each section is provided with an angle 7 suitably connected to its section as at 8 and each angle member having spaced slots or cut-outs 9. On the angle 7 mounted on section 4 and adjacent the slots thereof are provided upstanding brackets 10 and 11 for pivotally receiving oppositely projecting lugs or pins 12 of a swivel nut 13. The threaded portion of this nut is in alignment with a clamping screw 14 having an enlarged shank 15 and a handle 16. This shank forms a shoulder 17 adapted to seat against the sides of the angle 7 adjacent the slots in the semi-cylindrical section 5.

When the threaded end 18 of a clamping screw is received in the interiorly threaded swivel nut and the handle moved into the position shown in Fig. 2, a rotation of this handle to clamp the sections in position, will cause the shoulder 17 to engage against the sides of angle 7 and draw the semi-cylindrical sections together.

In applying the cork padding or covering, a flat sheet thereof is heated to cause it to become more pliable. The metal roll is then coated with a heavy coating of a suitable cement or adhesive. If desired, the cork may be coated on one side with the cement, or both the roll and cork may be so coated. The warm cork is then loosely wrapped about the roll so that the form clamp may be applied. The roll and cork padding may be readily received in the clamping means or form since when the clamping screw is in its retracted position, it may pivot about the swivel nut 13 and be moved to an open position.

When applying the form clamp, the hinges are preferably positioned opposite to that where the splice in the cork will be made. Then as the clamping screws are placed in the position shown in Fig. 2 and tightened, the form will close and press the cork into a position as in Fig. 3.

wherein the ends of the cork abut to form a perfect joint. It will be apparent that as the form closes, the sections thereof will pull and force the two ends of the cork into perfect abutting contact.

The roll is allowed to remain for a suitable period in the clamp until the cement has set and become hard and cured. If desired, such curing may be accelerated by heating. After the curing operation, the cloth covering is wrapped or wound about the cork padding and suitably anchored in position.

From the above description and the disclosures in the drawing, it will be readily apparent that the invention comprehends a novel roll construction for an ironing machine and having advantages far superior to those rolls now in use. The cork remains soft and yieldable indefinitely while heat and steam have no harmful effect thereon as they do on cloth paddings or coverings and the like, but react favorably on the cork padding by causing it to soften and remain pliable.

Having thus disclosed the invention,

I claim:

1. A clamping member for applying a sheet of covering or padding to an ironer roll, comprising semi-cylindrical sections hinged along their one

edge, said sections being adapted to be completely opened to receive and then encompass the roll and sheet to be applied thereto and to engage said sheet, and clamping means connecting the free edges of said sections and adapted to draw said edges together whereby said sections force the ends of said sheet into abutting relation and the remainder of the sheet into intimate surface contact with the roll so as to provide an integral structure.

2. Clamping mechanism for applying and cementing a sheet of cork or the like to an ironer roll, comprising a cylindrical form having an internal diameter substantially that of the combined roll and sheet, said form being sectional and said sections being hinged together along their one edge, angle members mounted adjacent their free edge, aligned slots provided in said members, a swivel nut adjacent the slot in one of said members and a clamping screw passing through said slots and adapted to be received in said nut and engaging the other of said members, whereby when said screw is tightened, it forces said members and sections toward each other.

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