

April 22, 1924.

1,491,260

C. E. HAMILTON

IRONING MACHINE

Filed Nov. 30, 1923

Fig. 1.

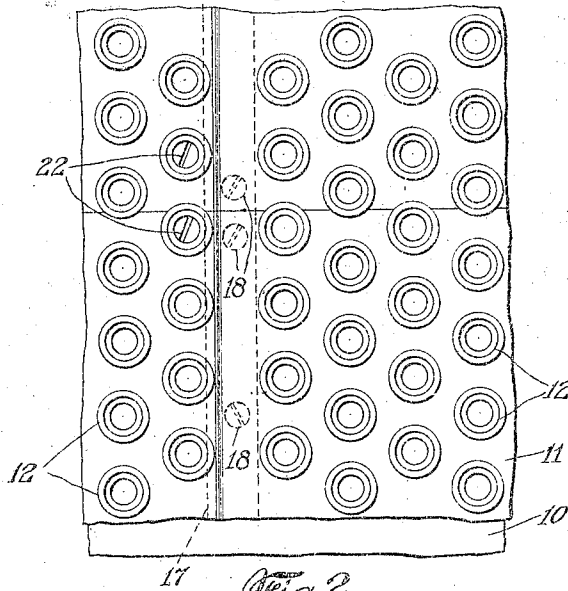


Fig. 2.

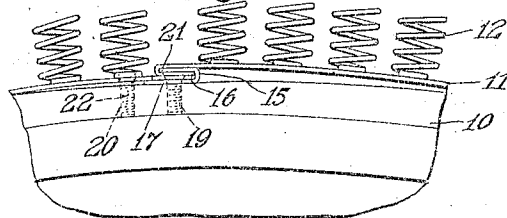
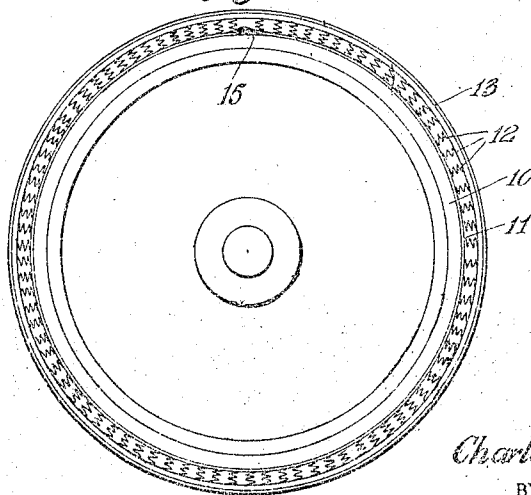


Fig. 3.



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UNITED STATES PATENT OFFICE.

CHARLES EDWIN HAMILTON, OF VAN NUIS, CALIFORNIA.

IRONING MACHINE.

Application filed November 30, 1923. Serial No. 677,609.

To all whom it may concern:

Be it known that I, CHARLES EDWIN HAMILTON, a citizen of the United States, and a resident of Van Nuis, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Ironing Machines, of which the following is a specification.

The invention relates to ironing machines, more particularly of the cylinder type of pressing machine and equipped with a resilient padding support, for example of the nature set forth in my prior U. S. Letters Patents Nos. 1,445,393, and 1,466,363. The type of pad set forth therein comprises essentially a supporting base plate having secured thereto a plurality of spring members, the same forming a unitary structure which may be wound over the surface of the ironing roll or cylinder and suitably secured thereto.

Heretofore, it has been the practice in attaching an ironing pad of this type to a cylinder to secure, by means of screws or the like, the two abutting ends of the plate directly to the surface of the cylinder as the said plate is wrapped around the said cylinder. This involves considerable labor and makes it inconvenient for removal when replenishing the usual fabric covering which it is understood is to be provided over the resilient members in the usual manner. It is the object of the present invention to provide a more convenient arrangement for attaching the plate to its cylinder and whereby the same may be expeditiously removed when replenishment of the material of the ironing pad becomes necessary or desirable.

The nature of the invention, however, will best be understood when described in connection with the accompanying drawings, in which—

Fig. 1 is a fragmentary plan view, and Fig. 2 a fragmentary end view of a portion of a cylinder equipped with the resilient padding; and illustrates the novel manner of attaching the resilient supporting member to said cylinder.

Fig. 3 is an end elevation of the cylinder of a pressing machine with pad attached and portion of cover broken away.

Similar characters of reference designate corresponding parts thruout the several views.

Referring to the drawings, 10 designates

a cylinder of the usual type employed in laundry pressing machines and over the surface of which is adapted to be wrapped, for example, a flexible metal plate 11, or several adjacent plates depending upon the length of the cylinder, said plates being usually several feet in length and of a width to suit the periphery of said cylinder which is to be covered thereby. This plate, as set forth in the aforesaid patents, has a plurality of resilient members extending outwardly therefrom, for example as helical spring members 12 secured thereto and as is more particularly set forth in the aforesaid Letters Patent. Over the tops of these resilient members is to be mounted the ironing pad proper and composed of one or more sheets of fabric 13, or the like, Fig. 3, which provides the actual ironing surface, as is well understood.

Heretofore, the abutting ends of the wrapped plate were secured directly to the surface of the cylinder along their longitudinal abutting edges, as by means of screws or the like. In accordance with the present invention, there is attached securely to the cylinder a longitudinally disposed holding member 15 composed of a strip of metal doubled back over a portion to provide a channel 16, the lower or holding portion 17 remaining for securing purposes, and to this end, is provided at regular intervals with screw holes 18 for securing screws 19 which are adapted to fit into registering drilled and tapped openings 20 of the cylinder. The strip is to be so attached that the mouth of its channel 16 will be open in the normal direction of rotation of the cylinder; and is designed to receive a lip 21 formed by turning over one end of the plate 11, as shown more particularly in Fig. 2 of the drawings, and thereby hold same to the cylinder by a readily detachable connection. The remainder of the plate is wrapped around the cylinder and its resilient members covered with the ironing pad 13.

In order to obviate any tendency of the plate to back off the cylinder should a slight movement of the cylinder in the direction reverse to its normal rotation occur, it is preferred also to secure the opposite and free end of the plate to the said cylinder and near its edge, which is caused to abut the edge of the portion 17 of strip 15; or, preferably, to overlap same, as shown. The securing of this end may be accomplished

by suitable screws 22 as in the case of the said strip. When it is desired to remove the plate from the cylinder, it is necessary then merely to unhook the inwardly turned lip 21 of the plate from the co-acting channel 16, first withdrawing screws 22 in case the opposite end has been screwed to the cylinder, as aforesaid. This renders the installation or removal of a plate from its cylinder a comparatively simple matter and insures, also, in the return of same, a proper positioning and securing thereof even by one unskilled therein.

I claim:—

15 1. An ironing roll, comprising a rotatable cylinder, an ironing pad composed of a flexible plate having a plurality of resilient members secured thereto and a fabric covering over the top of said resilient members, and a continuous locking member secured to the surface of said cylinder longitudinally thereof and adapted to receive and hold in one direction of rotation of the cylinder one end of the said plate.

25 2. An ironing roll, comprising a rotatable cylinder, an ironing pad composed of a flexible plate having a plurality of resilient members secured thereto and a fabric covering over the top of said resilient members, and a continuous locking member secured to the surface of said cylinder longitudinally thereof and adapted to receive and hold in one direction of rotation of the cylinder one end of the said plate, and means to secure the other end of the plate to the cylinder.

35 3. An ironing roll, comprising a rotatable

cylinder, an ironing pad composed of a flexible plate having a plurality of resilient members secured thereto and a fabric covering over the top of said resilient members, a metal strip secured to the cylinder longitudinally thereof and having a turned over portion to provide a channel for receiving the turned over edge of one end of the plate.

4. An ironing roll, comprising a rotatable cylinder, an ironing pad composed of a flexible plate having a plurality of resilient members secured thereto and a fabric covering over the top of said resilient members, a metal strip secured to the cylinder longitudinally thereof and having a turned over portion to provide a channel for receiving the turned over edge of one end of the plate, and means to secure the other edge to the cylinder.

5. An ironing roll, comprising a rotatable cylinder, an ironing pad composed of a flexible plate having a plurality of resilient members secured thereto and a fabric covering over the top of said resilient members, a metal strip secured to the cylinder longitudinally thereof and having a turned over portion to provide a channel for receiving the turned over edge of one end of the plate, the other edge overlapping the metal strip, and means to secure said other edge to the cylinder.

Signed at New York, in the county of New York and State of New York, this 23rd day of November, A. D. 1923.

CHARLES EDWIN HAMILTON.