

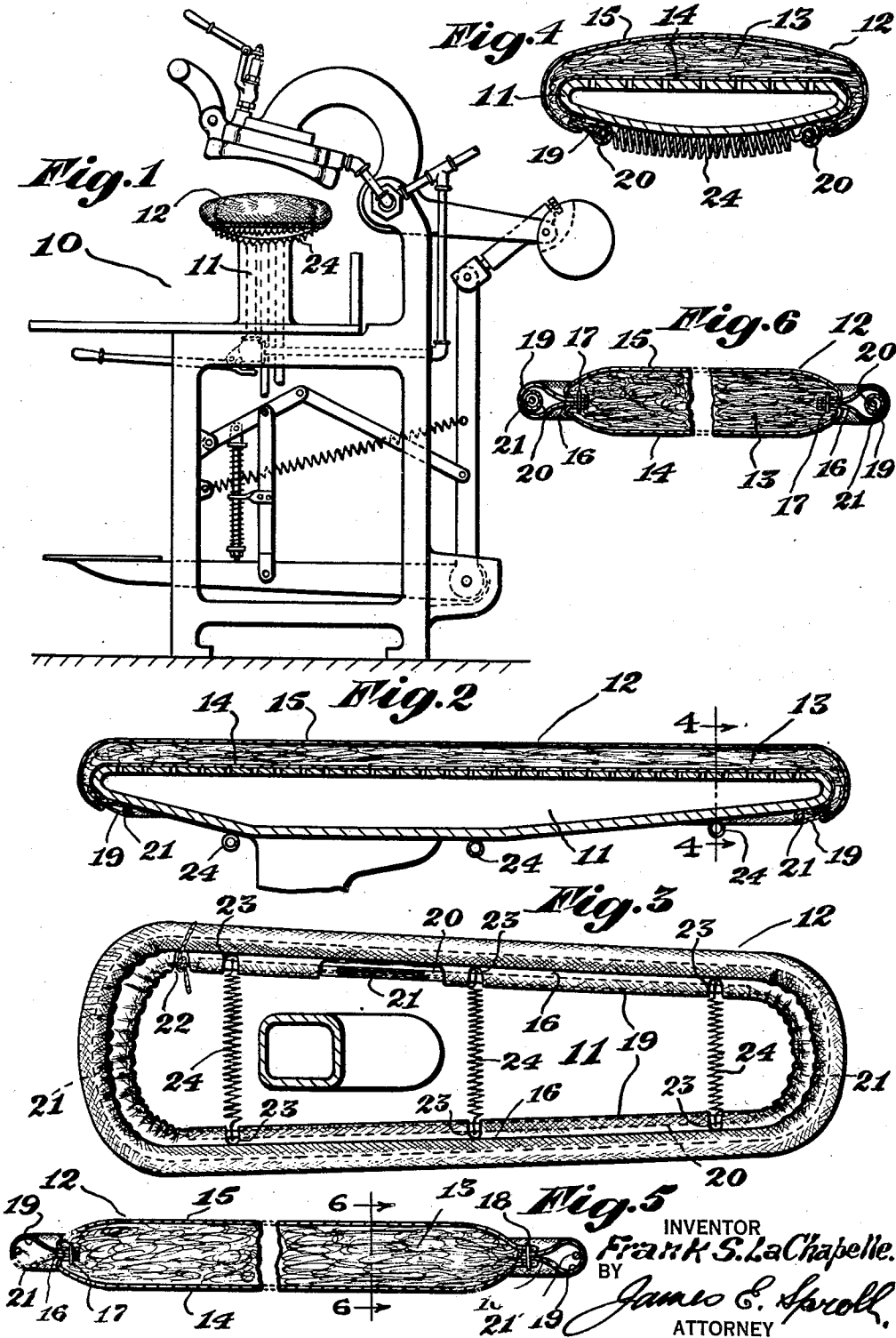
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PRESSING MACHINE PAD

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UNITED STATES PATENT OFFICE

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PRESSING MACHINE PAD

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This invention relates to improvements in pressing machine pads and aims primarily to provide a novel pressing machine pad fabricated as a unit and especially designed for rapid and ready placement upon the buck of its correlated pressing machine and for similar removal therefrom.

Contemplated by the present invention is the provision of a relatively soft pressing machine pad comprising a casing or container, a stuffing of non-matting or non-woven material, and novel means for securing the pad to the pressing machine buck, whereby a smooth and even pressing surface is provided for said pad free of any creases or ridges, all of which are important objects of the invention and are to be correlated in the broad aim of enhancing the efficiency of the device for general use.

The above, and additional objects which will hereinafter be more specifically treated are attained by such means as are shown in the accompanying drawings, described in the following specification and then more clearly pointed out in the claims, which are appended hereto and form part of this application.

With reference to the drawings, in which there is illustrated one embodiment of the invention, and throughout the several views of which like characters of reference designate similar parts:

Figure 1 is an end elevation of a pressing machine equipped with a pressing pad comprehended by the present invention.

Fig. 2 is a longitudinal central section of the pressing pad, as it would appear when operatively secured to the pressing machine buck.

Fig. 3 is an inverted plan view thereof.

Fig. 4 is a vertical transverse section taken through 4—4 of Fig. 2.

Fig. 5 is an enlarged fragmentary longitudinal section of the pad detached from the buck, and

Fig. 6 is a fragmentary vertical transverse section of the same taken through 6—6 of Fig. 5.

Before taking up the detailed description of the drawings, a general exposition of the specific purposes, functions and advantages

of the pressing machine pad evolved by the present invention will be undertaken. Heretofore it has been customary to fabricate pressing machine pads from layers of cotton or wool padding and employ separate covers for the same. This mode of construction was and is objectionable, inasmuch, as the layers of padding material frequently become dislodged or displaced while being secured to the bucks of the pressing machine, thus precluding the possibility of obtaining smooth and even pressing surfaces for the pads. Another disadvantage and feature of this form of construction is the fact that it is necessary to cut the layers of padding material to size and build up the pads layer by layer, in each and every instance, which method involves considerable time and labor. A further objection to such pads is that after they have been in use for relatively short periods the padding material of same becomes matted and in consequence the pads become very hard and less efficient, causing breakage of buttons, and lack of uniformity and evenness in the pressing surfaces of the same. A still further objection to the pads now in general use is that the padding material thereof rapidly becomes charred and the charred material lodges within the vacuum apertures of the bucks causing stoppage of the same, which fact materially affects the efficiency and effectiveness of the pressing machines and substantially prevents proper removal of the steam and moisture from the garments being pressed. Further the charred material frequently sifts out around the edges of the covers and drops upon the pressing machine tables where it is picked up by the garments being pressed.

Therefore, primary objects of the invention are to provide a self-contained pressing machine pad having a stuffing of non-woven material which will not mat readily; which will retain its resiliency for a much longer period than pads heretofore in general use; which can be applied to the pressing machine or removed therefrom in a single operation; which is sufficiently soft to substantially obviate breakage of buttons; which will receive impressions of seams and pockets of the gar-

ments in its pressing surface thereby improving the appearance of the same; which retains a smooth and even pressing surface for a considerable period; wherewith better and
 5 firmer creases in the garments are obtained; wherethrough the steam and vacuum of the pressing machine will function more efficiently so that more rapid and expeditious steaming and drying of the garments is assured; wherefrom charred stuffing material cannot
 10 escape to clog the vacuum apertures of the pressing machine buck or to drop upon the machine table; and which is secured to the machine buck in a novel manner so that tension upon the perimeter of the pad is uniformly distributed.

Beginning the more detailed description of the invention by reference to the drawings the numeral 10 designates a pressing machine, of any well known type, having a buck
 20 11 upon which is detachably secured my pressing pad comprising an elongated casing or container 12, fabricated from textile material, such as cotton drill or the like, and
 25 a stuffing or wadding 13 of substantially non-matting or non-woven material, such as kapok, silk floss, or the like. In the present disclosure the casing 12 consists of two pieces of textile material of the same shape and size,
 30 designated by the numerals 14 and 15, respectively, and an elongated strip of similar material, designated by the numeral 16. In forming the casing 12 the piece 15 is superposed upon the piece 14 and the strip 16
 35 doubled upon itself is then inserted between the edge portions of the pieces 14 and 15, whereupon the same are sewed together along both sides and around one end, as by stitches
 40 17, following which the casing is turned inside out, in order to enclose the seam thus formed and present a finished appearance for the exterior of the casing. As above described one end of the casing is left open, this
 45 for the purpose of filling the same by blowing therinto or loosely packing therein the kapok or silk floss 13, following which the free edges of the pieces 14 and 15 are turned inwardly and the free edges of the strip 16 inserted therebetween, substantially in the
 50 manner illustrated at the right hand end of Fig. 5, and the whole sewed together, as by stitches 18, to thus completely enclose the casing 12. Referring to Figs. 5 and 6 it will be seen that by doubling the strip 16 upon it-
 55 self and securing the same to the pieces 14 and 15, in the manner hereinbefore set forth, that such strip forms and provides a peripheral casing 19 upon the perimeter of the casing 12, the function and purpose of which
 60 will now be described.

In order to provide an even and smooth pressing surface for the pad, it is necessary and essential to apply a substantially uniform tension upon the perimeter of the same.
 65 This is accomplished by inserting within

the rectilinear portions of the peripheral casing 19 longitudinally disposed metallic tubes 20 and by passing through said peripheral casing 19 and said tubes 20 a draw string or cord 21, the terminals of which extend
 70 outwardly through an opening 22 formed by the opposing ends of the strip 16, preferably located adjacent one end of the casing 12. The peripheral casing 19 is notched at intervals, as indicated at 23, to permit detachable
 75 engagement of the terminals of a series of transversely disposed tension springs 24 with the metallic tubes 20.

In practice the pressing pad is placed upon the buck 11 and a pull exerted upon the
 80 draw string terminals, which has the effect of applying tension upon the ends of the pad whereby the same are drawn down tightly over the ends of the buck 11, the transversely disposed tension springs 24 are then attached
 85 to the metallic tubes 20, to exert an inward or lateral pull thereon, which due to their rigidity has the effect of applying uniform tension upon the sides of the pad, whereby the same are drawn down tightly over the sides
 90 of the buck 11. It will thus be obvious and apparent from the foregoing that the metallic tubes 20, draw string 21 and the tension springs 24 will function to apply a uniform
 95 tension upon and throughout the perimeter of the pad, so that an even and smooth pressing surface is obtained therefor free from any creases or ridges.

Actual experience and long continued use has demonstrated that a pad fabricated in accordance with the present invention readily
 100 permits of the passage of the steam and vacuum therethrough, for the reason that same retains its initial resilience and softness for a long period, and in consequence steaming
 105 and drying of the garments is more rapidly and expeditiously effected than formerly. In this connection, it may be well to state, that in order to secure the maximum resilience and softness for the present pads I
 110 have found it expedient and preferable to employ shredded kapok or silk floss as the stuffing for same, the fibers of which do not mat readily.

Manifestly, therefore, the pressing pad of the invention is extremely compact, durable and economical in construction, is reliable and efficient in use, and is adaptable for
 115 rapid attachment to or removal from its correlated pressing machine buck, as a unit, so that inspection of such buck may be expeditiously effected at anytime.

While I have herein shown and described the invention with sufficient detail to enable those skilled in the art to which it pertains
 125 to understand the mode of construction and the principles involved, it is to be understood that there is no intentional limitation herein to the specific form and precise details of construction shown and described, except as ex-
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pressly defined by the appended claims, and that various modifications of the same may be resorted to without departing from the spirit of the invention or the benefits derivable therefrom. It is also to be understood that certain features of the invention herein disclosed may be employed in and with other combinations than those shown and described.

What I claim as my invention and desire to secure by Letters Patent is:—

1. In combination with a pressing machine buck, of a self-contained pad therefor comprising a casing having a stuffing of non-woven material, hollow means in the sides of said casing, and means passing through said hollow means and the ends of the casing whereby the pad is secured to said buck.

2. In combination with a pressing machine buck, of a self-contained pad therefor comprising an elongated casing having stuffing of non-woven material, a peripheral casing secured to the perimeter of said first mentioned casing having rectilinear side portions provided with an opening thereinto, tubes of rigid material disposed within the rectilinear side portions of said peripheral casing, a draw cord passing through the peripheral casing and through said tubes having its terminals extending through the opening in said peripheral casing for applying tension upon the ends of the pad and securing same to the buck and a series of transversely disposed tension springs detachably secured at their terminals to said rigid tubes for applying tension upon the sides of the pad and securing the same to the buck.

3. In combination with a pressing machine buck, of a self-contained pad therefor comprising a casing having a stuffing of kapok, hollow means in the sides of said casing, and means passing through said hollow means and the ends of the casing whereby the pad is secured to said buck.

In testimony whereof I affix my signature.
FRANK S. LA CHAPPELLE.

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