

C. E. HAMILTON.
IRONING PAD.
APPLICATION FILED JULY 6, 1912.

1,054,407.

Patented Feb. 25, 1913.

Fig. 1

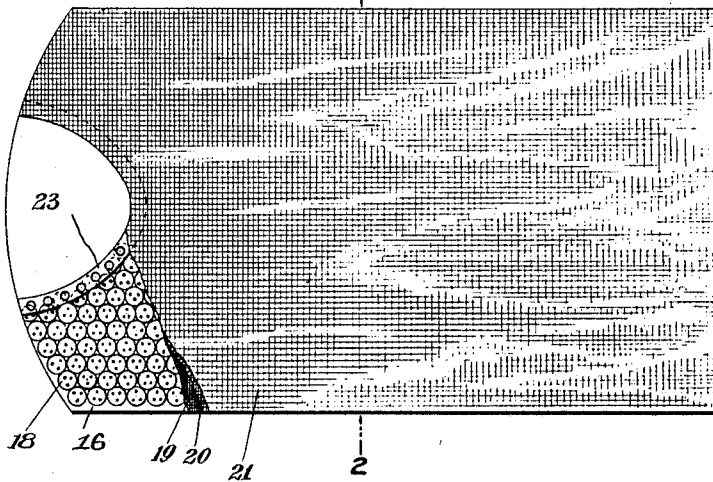


Fig. 2

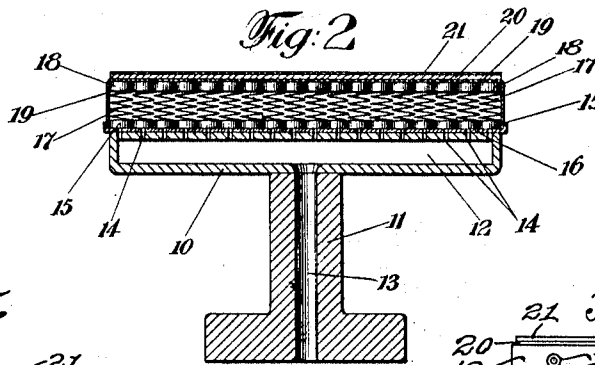


Fig. 5.

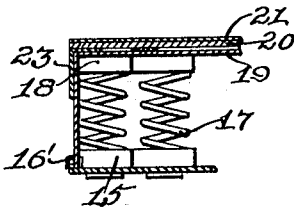


Fig. 4.

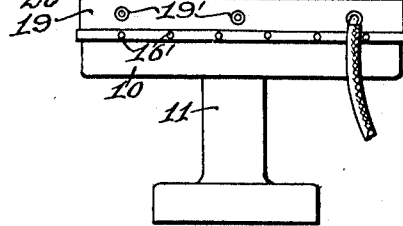
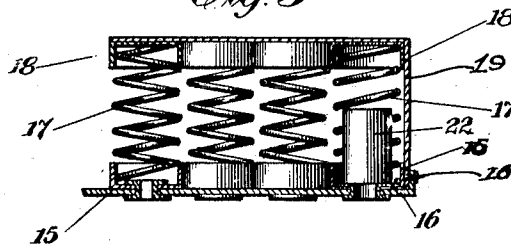


Fig. 3



Witnesses:
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UNITED STATES PATENT OFFICE.

CHARLES EDWIN HAMILTON, OF RIDGEFIELD PARK, NEW JERSEY, ASSIGNOR TO THE ARABOL MANUFACTURING COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

IRONING-PAD.

1,054,407.

Specification of Letters Patent.

Patented Feb. 25, 1913.

Application filed July 5, 1912. Serial No. 707,826.

To all whom it may concern:

Be it known that I, CHARLES EDWIN HAMILTON, a citizen of the United States, and a resident of Ridgefield Park, in the county of Bergen and State of New Jersey, have invented certain new and useful Improvements in Ironing-Pads, of which the following is a specification.

The invention relates to improvements in ironing tables for pressing or ironing machines, and more particularly to the ironing pad thereon.

It has for its object so to construct the pad employed in ironing machines that a large condensing surface may be provided to effectively condense the moisture given off during the process of pressing the clothes and to enable the moisture to be readily disposed of.

The invention has for its object, furthermore, to provide a resilient pad which will afford a uniform resistance and require but few of the usual cloth coverings; and which is so arranged, moreover, that movement of its upper portion is positively limited by suitable stops therein, said pad, however, readily accommodating buttons and the like. The pad, furthermore, is complete in itself, and is removable and replaceable as a whole.

The nature of the invention will be best understood when described in connection with the accompanying drawings, in which: Figure 1 is a plan of the pad with a portion of the cloth covering removed. Fig. 2 is a transverse section taken on the line 2-2, Fig. 1. Fig. 3 is a detail view of the springs and retainers for the same, employed in the pad. Fig. 4 is an end view illustrating a modification. Fig. 5 is a vertical section through the neck piece and a portion of the pad.

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

Referring now to the drawings, 10, Fig. 2, designates a bed plate, usual in ironing machines and mounted upon the ordinary semi-rotatable supporting arm 11, as is well understood. This bed plate is provided with a chamber 12 into which air is adapted to be blown or drawn by suitable apparatus (not shown) through duct 13 in the arm 11. Perforations 14 are provided in the upper surface of the bed plate 10 and communicate

with the chamber 12, the said upper surface being adapted to receive the pad which is made up as follows. A plurality of receptacles 15 are suitably secured to a perforated base plate 16, as by piercing the bottom of said receptacles and placing eyelets through the said perforations and also through the perforations in the base plate and then turning the same over. These receptacles are arranged adjacent to one another and are preferably staggered, when the circular type shown is employed, so as to leave but a small space between unoccupied. Within these various receptacles and held thereby are located vertical coil springs 17. The tops of the coil springs receive suitably perforated, removable caps 18 similar to the receptacles 15, and which, furthermore, together with the said receptacles 15, serve to maintain the various springs sufficiently apart to prevent their interlocking. Over the caps 18 is drawn a porous cloth 19 which may be secured to the sides of the base plate 16 as through eyelets 16'. On top of this porous cover is placed one or more layers, usually not more than two will be required, of suitable padding material; and over this pad is laid the top cloth 21 upon which the article (not shown) to be ironed may be placed.

The corner springs, and perhaps a few along the sides of the pad if found necessary, are each provided with a suitable stop 22, Fig. 3, located within the said springs of a predetermined height for the purpose of limiting the movement of the upper portion of the pad. The height of these stops is made such that the remaining springs may be still slightly compressed, thus leaving the remainder of the pad free to be further depressed to accommodate the buttons and the like. To secure a uniform effect at the neck portion, I prefer to provide a small suitably curved angular neck piece 23, the top of which is perforated, several of the perforations registering with those of the caps thereunder. This piece 23 is merely laid on over the porous cloth 19 and the other pad material then placed on top.

When the pad is in use, the moisture from the articles ironed is driven through the top cloth 21, layer or layers 20 and porous cloth 19 to the resilient metal portion, where it passes through the perforations in and

spaces between the caps, through the springs and then out through the receptacles and the base plate, and finally through perforations 14 into the chamber 12 from which it is removed. Of course, considerable moisture evaporates directly from the springs etc.; and, where no provision is made in the bed plate for an air connection, the same may be made directly to the sides of the pad, as for example, to eyelets 19' in the porous cloth 19, as shown in Fig. 4.

In employing a pad of the character hereinbefore set forth, the number of the fabric layers required is greatly reduced, the same, moreover, do not require such frequent replacement; and, when necessary to replace the fabric, such replacement is much more readily effected. The large condensing surface afforded by the numerous springs will effect a rapid drying of the fabric; and, in view of the absence of a steam heated bed plate, a much longer life is insured to the same. The absence of such heated bed plate, furthermore, also renders the working with a pad of this character much more agreeable. The resiliency of the pad is maintained at all times by the aforesaid construction; and the additional provision for accommodating the buttons and the like, after the machine has applied the maximum pressure, insures against the breakage of even the heaviest of buttons.

In case of damage to a spring of the pad, the same may be readily and quickly repaired by removing the defective one and substituting a new spring; and, in fact, the pad as a whole may be removed and another substituted therefor with but an insignificant loss of time.

I claim:—

1. An ironing pad for laundry pressing machines, comprising: a base plate; a plurality of adjacent springs supported thereby; suitable caps for said springs; and a fabric top supported by said caps.

2. An ironing pad for laundry pressing machines, comprising: a base plate; a plurality of adjacent springs supported thereby; perforated caps for said springs; and a fabric top supported by said caps.

3. An ironing pad for laundry pressing machines, comprising: a base plate; a plurality of adjacent springs supported thereby; caps for said springs; a porous fabric covering for said caps and springs; and a

fabric ironing top over said porous covering and supported by said caps.

4. An ironing pad for laundry pressing machines, comprising: a base plate; a plurality of adjacent springs supported thereby; caps for said springs; a porous fabric covering for said caps and springs; a fabric ironing top over said porous covering and supported by said caps; and means to remove moisture from said pad.

5. An ironing pad for laundry pressing machines, comprising: a base plate; a plurality of adjacent receptacles secured thereto; suitable springs seated therein; caps for said springs; and a fabric top supported by said caps.

6. An ironing pad for laundry pressing machines, comprising: a perforated base plate; a plurality of adjacent, perforated receptacles secured thereto and the perforations thereof registering with those of the base plate; suitable springs seated in said receptacles; perforated caps for said springs; and a fabric top supported by said caps.

7. An ironing pad for laundry pressing machines, comprising: a base plate; a plurality of adjacent springs supported thereby; suitable caps for said springs; a curved neck piece fitted over the neck portion of said pad; and a fabric top over said curved neck piece and supported by said caps.

8. An ironing pad for laundry pressing machines, comprising: a base plate; a plurality of adjacent springs supported thereby; suitable caps for said springs; a curved, angular neck piece fitted over the neck portion of said pad; and a fabric top over said curved neck piece and supported by said caps.

9. An ironing pad for laundry pressing machines, comprising: a base plate; a plurality of adjacent springs supported thereby; suitable caps for said springs; a perforated, curved, angular neck piece fitted over the neck portion of said pad; and a fabric top over said curved neck piece and supported by said caps.

Signed at New York, in the county of New York, and State of New York, this 3rd day of July, A. D. 1912.

C. EDWIN HAMILTON.

Witnesses:

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