

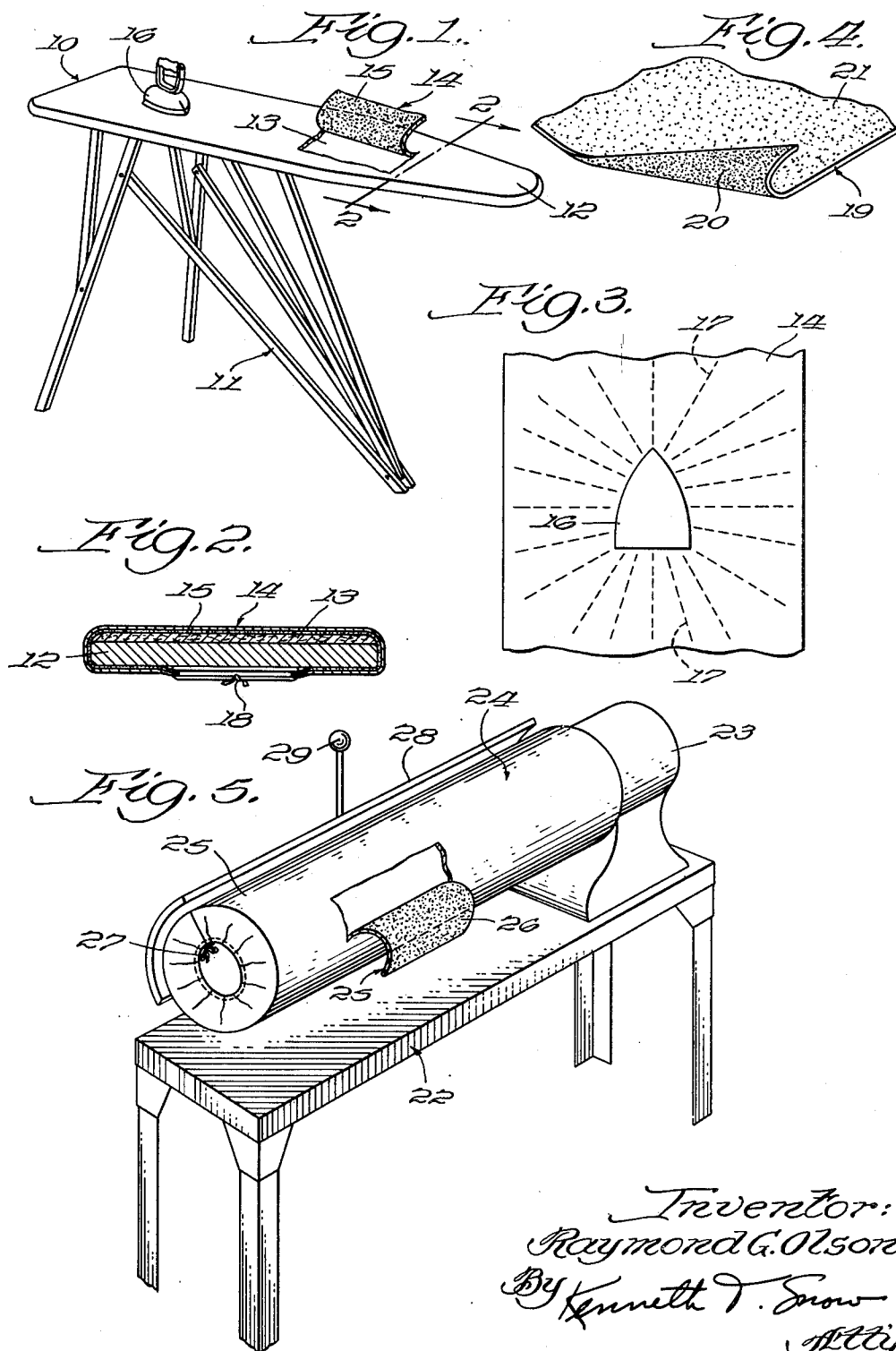
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IRONING APPARATUS COVER

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IRONING APPARATUS COVER

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1 Claim. (Cl. 38—140)

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This invention relates to a new and improved ironing apparatus cover.

An important object of this invention is to provide an ironing apparatus cover capable of readily dissipating the heat of an iron sufficiently so that scorching of the cover in any localized area is reduced to a minimum.

Another important object of this invention is to provide a metallized cover for ironing boards or mangles which will be abrasive resistant for increased wearability and which will simultaneously disperse sufficient quantities of the heat created by contact of the iron thereagainst so that burning or scorching of the cover is substantially eliminated.

A further important object of this invention is to provide a fabric cover for ironing boards or the like which has been coated with deposits of spray metal on its inner surface to provide prompt heat dissipation and which has been coated with deposits of spray metal on its outer surface to provide for longer wearing surface when the iron is used on relatively coarse fabrics such as overall or duck material.

Other and further important objects of this invention will become apparent from the disclosures in the following specification and accompanying drawings.

In the drawings:

Figure 1 is a perspective view of an ironing board having the ironing board cover of this invention mounted thereon.

Figure 2 is a sectional view taken on the line 2—2 of Figure 1.

Figure 3 is a view of the under side of the ironing board cover employed in Figures 1 and 2 and showing the radiation or dissipation of heat over the entire ironing board surface.

Figure 4 shows a piece of ironing board cover material having its construction slightly modified from the ironing board cover shown in the preceding figures.

Figure 5 is a perspective view of a mangle or ironing machine.

As shown in the drawings:

The reference numeral 10 indicates generally an ironing board having the usual folding stand portion 11 and an elongated board portion 12 which is provided with proper padding material 13 and an outer covering material 14. The ironing board covers receive great amounts of heat by direct contact with the hot iron and they wear out relatively frequently because of excessive use combined with excessive heat. Invariably the ironing apparatus covers scorch and the threads

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composing the vegetable or other cloth fabric deteriorate until actually part of the cover is completely decomposed. It should be understood that the term vegetable fabric means any cloth fabric suitable as an ironing board cover and which might be damaged by the extremely high heat of the iron. The ironing board cover 14 has its inner surface metallized as shown at 15 by a process such as described in my Patent 2,474,273 entitled "Fabric Reenforcement." In this application the term "metallizing" means the spraying of finely divided fused particles of metal. In the fused state the metal particles envelope the constituent threads of the fabric and adhere to each other to form an integral flexible metal coating with and for the fabric. A metal should be selected which in its molten state will not destroy or weaken the threads of the vegetable or cloth fabric. The temperature of fusion should be relatively low.

An iron 16, which may be either electric or any type of flat iron, is shown on top of the ironing board 12 and cover 14. As shown in Figure 3, this iron 16 is possessed of considerable heat and this heat is shown as radiating or dissipating throughout the entire surface of the ironing board cover 14, as indicated by the dashed lines 17. This dissipation of heat occurs only because of the metallized surface 15 which conducts the heat immediately to the full surface of the cover so that the heat of the iron is never sufficiently stagnant in any one area to cause damage to the ironing board cover. It would, of course, be possible to provide the ironing board cover with other forms of metal, possibly in sheet form, to effect a similar dissipation of heat. However, with the use of a metal sheet on the under surface of an ironing board cover, some bonding agent must be employed between the fabric covering and the metal. The bonding agent is invariably an insulator of heat and the dissipation of heat is not very prompt. In the present invention, however, the metallizing requires no bonding agent as the fused particles of metal envelope the individual threads of the fabric causing firm adherence to the fabric and the particles also adhere to each other. The metallized coating 15 does not impair the flexibility of the cover such as a cover having a solid metal under sheet. In view of the fact that the cover remains flexible, it may easily be drawn tightly around any shape of ironing board as shown by the tie means 18 in Figure 2.

For certain types of ironing such as in factories making articles of coarse fabrics, the ironing

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board covers wear out relatively quickly and it is desired to equip the surface of the cover with a wear-resistant material to thus prolong the life of the cover without impairing the ironing efficiency of the entire apparatus. Particularly in the manufacture of overalls the ironing board covers are subjected to extremely rough treatment, and hence the cover material 19 as shown in Figure 4, in addition to having its under surface metallized as shown at 20, has its upper surface metallized at 21 possibly to a somewhat lesser extent. The under metallized surface 20 provides for the heat dissipation, and the upper metallized surface 21 makes the cover abrasive resistant as well as adding to the efficiency of the heat dissipation.

As shown in Figure 5, an ironing machine or mangle having a table supporting structure 22, a motor and controls 23, and a rotating cylinder 24 is also equipped with an ironing apparatus cover 25 which, as shown in the portion broken away, has its under surface metallized at 26 in the same manner as the flat ironing board cover 14 shown in Figure 1. The cover 25 is drawn tightly around the cylindrical roll 24 by means of the tie means 27 shown at the end of the roll. An iron shoe 28 containing a heating element is adapted to be drawn against the roll 24 to effect an ironing or pressing of articles inserted between the roll 24 and the shoe 28. A lever 29 is shown at the back of the shoe 28 preferably to effect emergency release of the shoe from a position against the roll. This ironing apparatus cover 25 takes the same treatment as the ironing board cover 14 as shown on the flat ironing board of Figure 1, and hence the metallized under surface accomplishes a similar heat dissipation. It should be understood that the term ironing board is to mean either a flat ironing board or a cylindrical roll such as shown at 24 in Figure 5.

In operation the iron, whether it be the hand-operated iron 16 or the elongated curved shoe iron 28 of the mangle as shown in Figure 5, applies heat to articles to be pressed against an ironing board cover such as 14, 19 or 25. This application of heat effects an ironing or a press-

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ing of the article but also imparts great heat to the ironing board covers which upon repeated applications would, if not metallized according to the principles of this invention, quickly deteriorate. The present invention, however, provides for the dispersal of heat over the entire surface of the ironing board, whether it be flat or cylindrical, thus minimizing the possibilities of scorching and greatly prolonging the life of ironing board covers.

Numerous details of construction may be varied throughout a wide range without departing from the principles disclosed herein, and I therefore do not propose limiting the patent granted hereon otherwise than as necessitated by the appended claim.

What is claimed is:

An ironing apparatus covering including a vegetable fabric sheet, a first coat of finely divided particles of fused metal adhering to each other and to the inner surface of said fabric sheet, a second coat of finely divided particles of fused metal relatively lesser in degree than the first coat, said second coat of metal particles adhering to the outer surface of said fabric sheet whereby the first coat of metal particles on the inner surface of the fabric sheet causes dissipation of localized heat and the second coat of metal particles on the outer surface of the fabric sheet increases wear resistance.

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