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O. E. CARTER

2,015,921

HOLDER FOR SADIRONS

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Fig. 1.

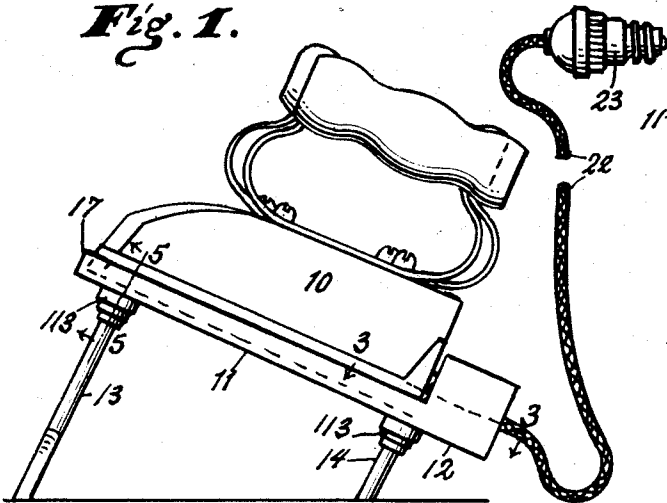


Fig. 3.

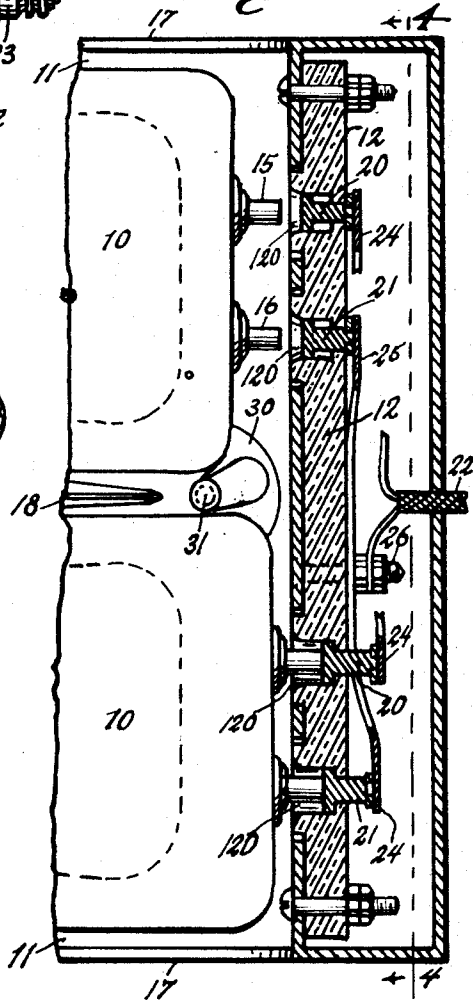


Fig. 2.

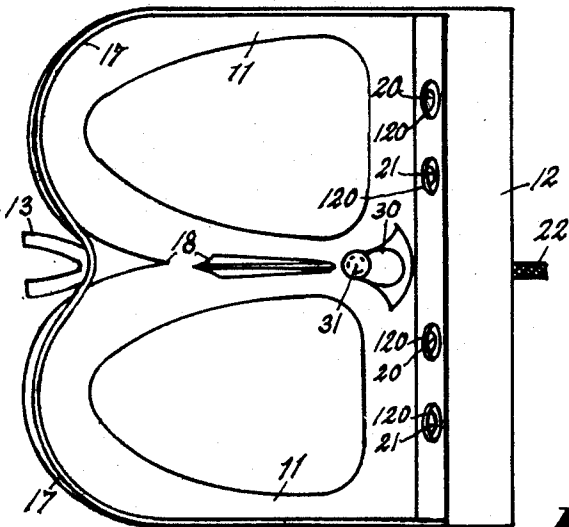


Fig. 4.

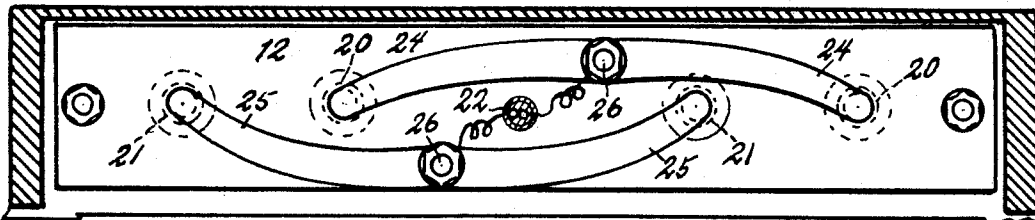
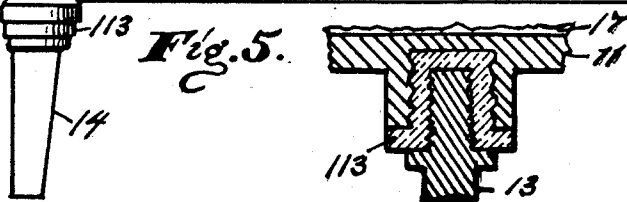


Fig. 5.



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UNITED STATES PATENT OFFICE

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HOLDER FOR SAD IRONS

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2 Claims. (Cl. 219—25)

The object of this invention is to reduce the labor in ironing fabrics and the like with electrically heated flat irons, sad irons and like laundry irons, speed the ironing, and economize in the same, and to enable the sad irons, when used, to be free from any connected electrical cord.

This object is attained by arranging the sad iron holder or stand so that sad irons when placed thereon will move automatically to heating position. One feature of the invention, therefore, consists in providing an inclined iron holder or stand with the heating position located at the lower end of the holder, whereby gravity will move said irons to heating position, and I preferably provide an electric heat control means or terminal member at the lower end of the holder so that gravity will move the irons into electrical contact therewith so as to receive electric current and heat the iron.

Another feature of the invention relates to a holder or stand for a plurality of said irons, and an arrangement whereby one of said irons will hold any iron subsequently placed on the holder away from heating position, until said first mentioned iron has been heated and removed.

When an electrical terminal member or heater is located at the lower end of the inclined holder, the second iron placed thereon is held automatically out of contact with the heater or terminal member until the first iron is heated and removed and then the second iron will automatically move into heating position and be heated while the preceding iron is being used. This may be accomplished by a stop moved by the first iron in the path of the second iron and which stop swings out of the way when the first iron is removed.

In the drawing:

Figure 1 is a side elevation of the sad iron and heater with a pair of sad irons thereon.

Fig. 2 is a plan view of what is shown in Fig. 1, with the sad irons removed and the electric cord broken away.

Fig. 3 is a transverse section on the line 3—3, Fig. 1, through the electric terminal member, and the lower portion of the said iron holder, the main parts being broken away.

Fig. 4 is a vertical transverse section on the line 4—4, Fig. 3.

Fig. 5 is a vertical section at the upper end of a leg showing the insulated mounting of the legs.

To illustrate the nature of this invention, there are shown in the drawing a pair of sad irons 10 and an inclined holder or stand 11 therefor which has at its lower end an electric heater or

a terminal member 12. The holder is mounted on forward long legs 13 and rearward short legs 14 and insulated, as seen in Figs. 1 and 5, by intermediate insulation plugs 113, to prevent any chance of a table and the like upon which the iron holder may be placed from catching on fire while the current is on.

The sad irons shown here have an electric heater in them of usual type but it is not shown. The current passes to such heater through the positive and negative terminals 15 and 16, respectively, which extend rearwardly from the irons and preferably are parallel with the bottom of the irons and with the inclined iron holder 11. The iron holder has a marginal rib 17 around it to keep the irons 10 from falling off and cooperating with an intermediate rib member 18 to guide the irons while moving down the holder to heating position.

The portion of the holder shown for each iron is longer than the iron but when the iron is placed thereon gravity causes it to slide down between said guides until its terminals engage corresponding terminals 20 and 21 in the sockets 120 in terminals 12, as shown in Figs. 1 and 3. The terminals 20 and 21 are connected by suitable wiring or cord 22 with plug 23 that is adapted to be inserted in a wall socket or other electric supply means.

The holder 11 herein shown is arranged for receiving and holding two sad irons beside each other having positive and negative terminals. There are two sets of positive terminals 20 and negative terminals 21 mounted on a positive spring bar 24 and a negative spring bar 25, seen in Figs. 3 and 4, which bars are centrally secured by binding posts 26 to terminal members 12 which are connected with positive and negative wires in cord 22. When no iron on the holder spring bars 24 and 25 hold the terminals 20 and 21 forward, as seen in the upper part of Fig. 3, and when the momentum of the iron goes against them, through the terminals 15, and 16, they are forced rearwardly to their seat, as seen in the lower part of Fig. 3. This causes satisfactory electrical connection.

When a second iron is placed on the holder, it is held out of the heating position or electrical contact with the terminals in the terminal member 12 by the first iron placed on the holder so that the second iron can not move into heating position until after the first iron has become heated and been removed. In the form shown this result is accomplished by the swinging stop block 30 pivoted on a pin 31 between the posi-

tions of the two irons and near the lower end of the holder.

The stop block 30 is substantially triangular or A-shaped with the wider portion downward and the pivot 31 is located so close to the positions of the irons that, when one iron is placed on the holder and is moved to heating position, it will push the stop block around in position to engage and stop the second iron in its sliding movement before it reaches heating position, as seen in Fig. 3.

While there is shown and described herein irons with electric heaters in them and terminal members secured to the lower end of the inclined holder, the invention is not limited to such specific arrangement but to any arrangement whereby the sad iron is caused to move or slide down to heating position automatically and thereby effect the electrical contacts necessary to cause the heating of the iron. Nor is the invention limited to the particular stop block as other means may be employed whereby the first iron will hold the second iron away from the heating position.

It is noted that in this connection the sad iron is wholly free from any connecting cord or like apparatus while being used in ironing fabrics, which is a great convenience, and no particular effort is required by the person ironing to move the iron into electrical connection with a source of current. Also while one iron is being used, the other iron is being heated, and no current is wasted by heating both irons at once.

I claim as my invention:

1. An inclined holder for a pair of sad irons side by side having electric heaters in them, terminals on the rear end of said irons extending parallel with the inclined surface of said holder, an electric terminal member secured at the lower end of said holder with terminals therein adapted to be engaged by the terminals of the irons when the latter move down by gravity to the lower end of the holder, and a stop block pivotally arranged between said irons that is adapted to be moved to stop the movement by gravity of the iron out of heating contact by the iron in heating contact and movable to release the iron out of heating contact so it can move into heating contact when the heated iron is removed from said holder.

2. An inclined holder for a plurality of sad irons side by side, having each an electric heater therein, a terminal member mounted at the lower end of said inclined holder with terminals therein in position to be engaged by the terminals in the irons when they are moved by gravity to their lowest position, legs constructed and arranged to support said holder so that irons placed thereon will slide by gravity toward said terminal member, insulation plugs interposed between said legs and holder, and means mounted on the holder movable by the first sad iron when in heating position to stop the movement of a sad iron subsequently placed on the holder into heating position until said first sad iron has been removed.

OTIS E. CARTER.