Jan. 26, 1932. C. S. HOUSTON 1,842,784

IRONING APPARATUS

Filed June 23, 1930 2 Sheets-Sheet 1

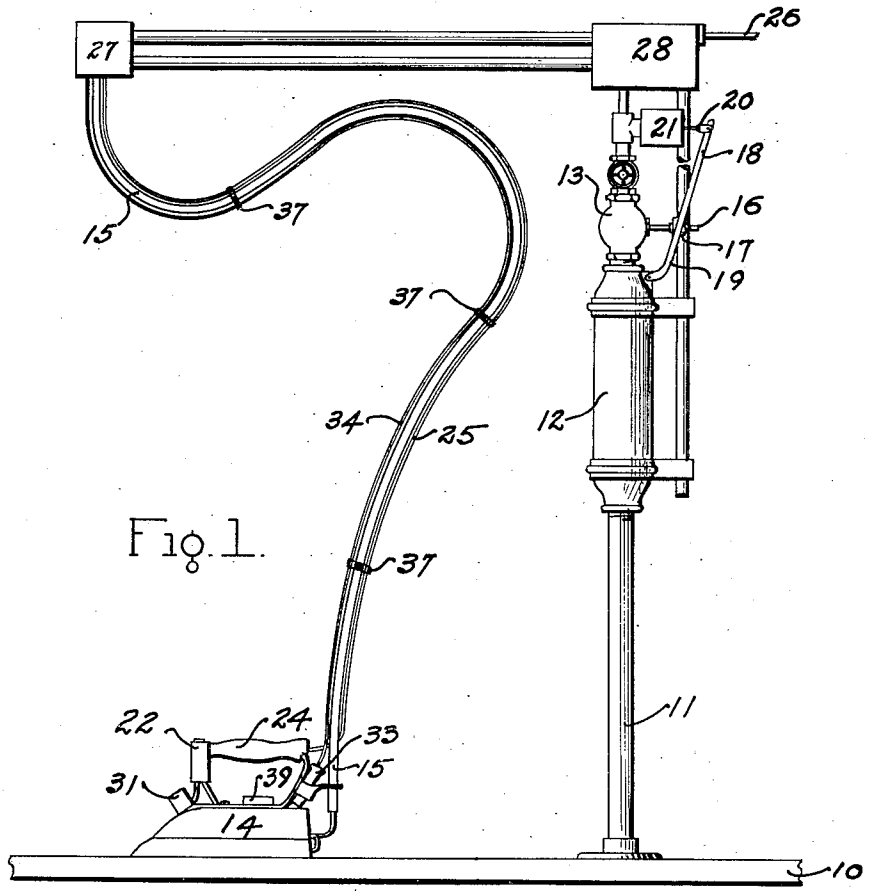


Fig. 1.

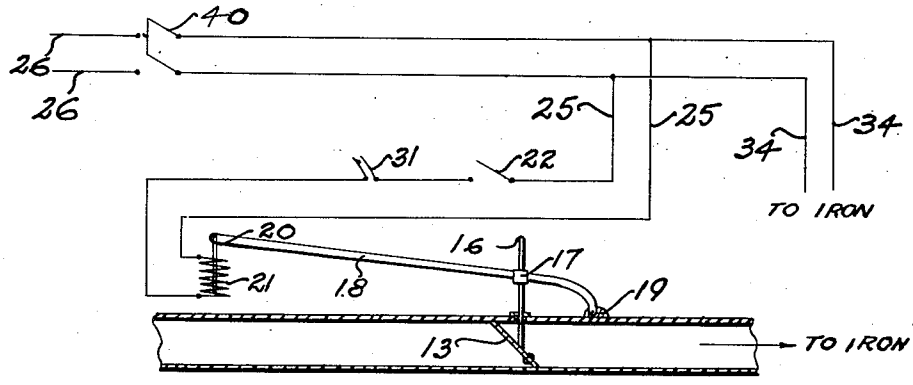


Fig. 2.

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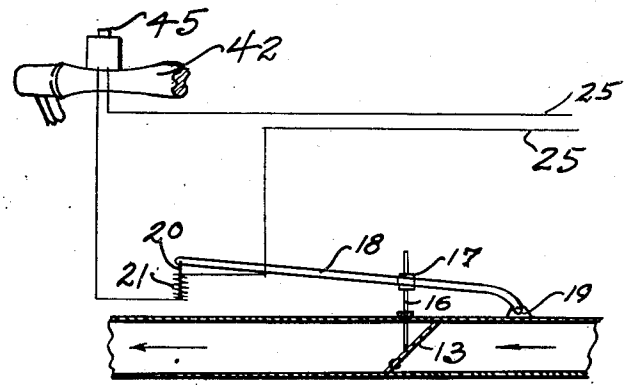


Fig. 4.

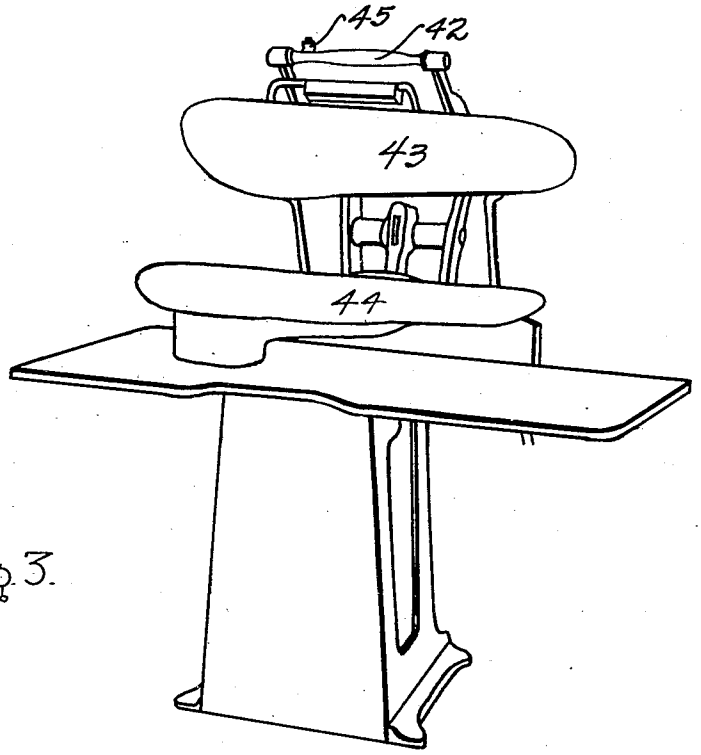


Fig. 3.

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Patented Jan. 26, 1932 1,842,784

UNITED STATES PATENT OFFICE

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IRONING APPARATUS

Application filed June 23, 1930. Serial No. 463,079.

This invention relates to ironing or pressing devices and particularly to controls therefor.

An object of this invention is a control for an ironing or pressing device, including an electro-magnet for opening and closing the valve which regulates the supply of steam to said device, operation of the magnet being controlled by a switch located preferably on the handle of the device.

A further object is a control for steam ironing and pressing devices which includes an electro-magnet for controlling the valve regulating the supply of steam to said device, there being a thermostat in series with said magnet for preventing valve opening operation of the latter until and except when the temperature of the device is above a predetermined value.

A still further object is a control for steam ironing and pressing devices which prevents admission of steam to said device until the iron has reached a predetermined temperature, whereby condensation of steam caused by contact thereof with the cold iron is prevented, and whereby rusting of the iron on the interior, clogging up the steam exit holes in the latter is also prevented.

Still further objects will readily occur to those skilled in the art upon reference to the following description and the accompanying drawings in which

Fig. 1 shows an assembly of an embodiment of the invention.

Fig. 2 is a diagrammatic view thereof.

Fig. 3 shows a modification, and

Fig. 4 is a diagrammatic view of the form of Fig. 3.

As indicated on the drawings, and more particularly in Fig. 1, the ironing table 10 is supplied with an upstanding post 11 upon which is secured the reducing valve 12 and the valve 13 for regulating the admission of steam to the iron 14 thru the flexible steam pipe or hose 15. The valve 13 is supplied with a spindle member 16, extending outwardly and connected by means of a yoke 17 to the lever 18, pivoted at 19, which in turn is connected to the armature 20 of the electro-magnet 21. The latter is electrically connected to the switch 22, which may be of a plunger or push button type and which may be and preferably is mounted upon handle 24 of the iron 14, the electric connections including a two wire cable 25 whose supply is obtained from the line 26 thru the connection boxes 27 and 28 and a thermostat 31 is disposed upon the iron adjacent the switch 22 and in electrical series therewith. There is also provided in the iron 14 a heater or coil, not shown, the latter being supplied with current in the usual manner by the plug 33 whose supply is obtained from the cord 34 which is also connected to the cable 26. As illustrated, the hose 15 and the two wire cords 25 and 34 are bound together by clips 37 to form a flexible element which connects the iron 14 to the stationary part 27 so as to supply steam and electric current thereto. Further, if desired, the iron may be supplied with a metallic thermometer 39 which, as shown, is located immediately below the handle thereof.

The operation of the device will be readily observed from the foregoing and from Fig. 2 which shows the two wire line 26 and a main switch 40 interposed therein in the usual manner. Line 25 leads off from the line 26 and runs thru switch 22, thermostat 31 and the coil of the electro magnet 21, in series, while a second line 34 goes from the line 26 to the iron. The armature 20 of the coil 21 is connected to the lever 18 pivoted at 19 and connected to the spindle 16 of the valve 13 in the steam line.

It will be observed that switch 22, when closed, will open the valve 13 and admit steam to the iron, provided, however, that the iron has been heated by its electric coil to such an extent that the bi-metallic thermostat 31 has closed. When the iron is cold, it is not desirable to supply steam thereto for the reason that hot steam, striking the cold surfaces of the iron condenses, causing rusting therein and causing clogging of the minute apertures in the iron base, and thermostat 31 operates in such a manner as to prevent such admission.

The invention described aforesaid may also be embodied in an ironing device of the

so-called pressing machine type illustrated in Fig. 3. In this device the handle 42, which is used by the operator to draw down the buck 43 towards the bed 44, is supplied with a switch 45 which is of the type shown at 22, Fig. 1, and which is connected in series with the magnet 21 for controlling the admission of steam to the pressing device. This construction operates in substantially the same way as does the one previously illustrated and need not be further described.

Now, having described the invention and the preferred embodiment thereof, it is to be understood that the said invention is to be limited, not to the specific details herein set forth and illustrated, but only by the scope of the claim which follows:

I claim:—

In combination with an electrically heated ironing or pressing device having a steam supply line therefor and a valve in said line for regulating the flow of steam to said device, a control for said valve including, in electrical circuit, an electric magnet for operating said valve, a switch adjacent said handle and in circuit with said magnet and a thermostat in circuit with said magnet for preventing valve opening operation of said magnet when the switch is operated until the temperature of said ironing device has reached a predetermined value.

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