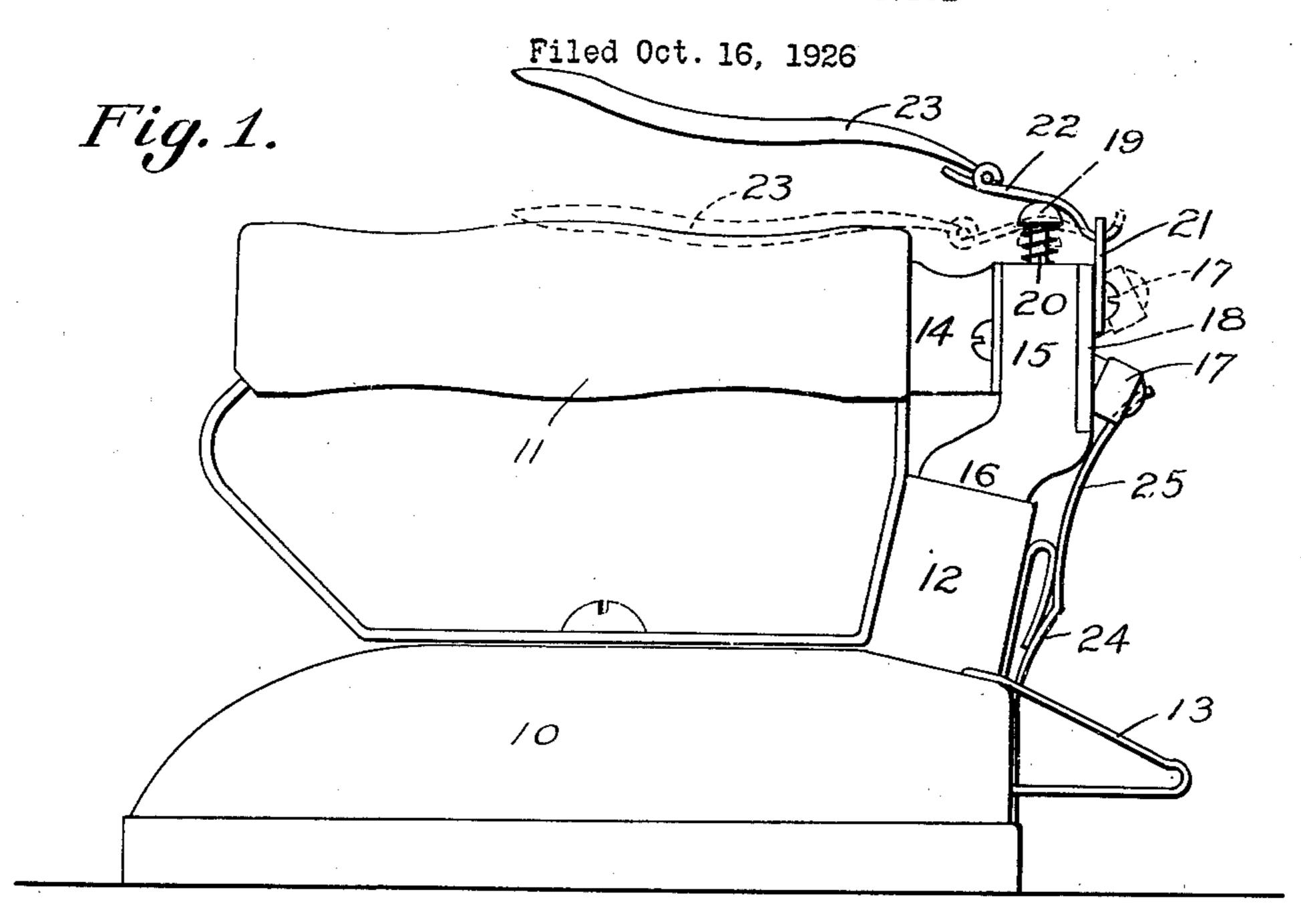
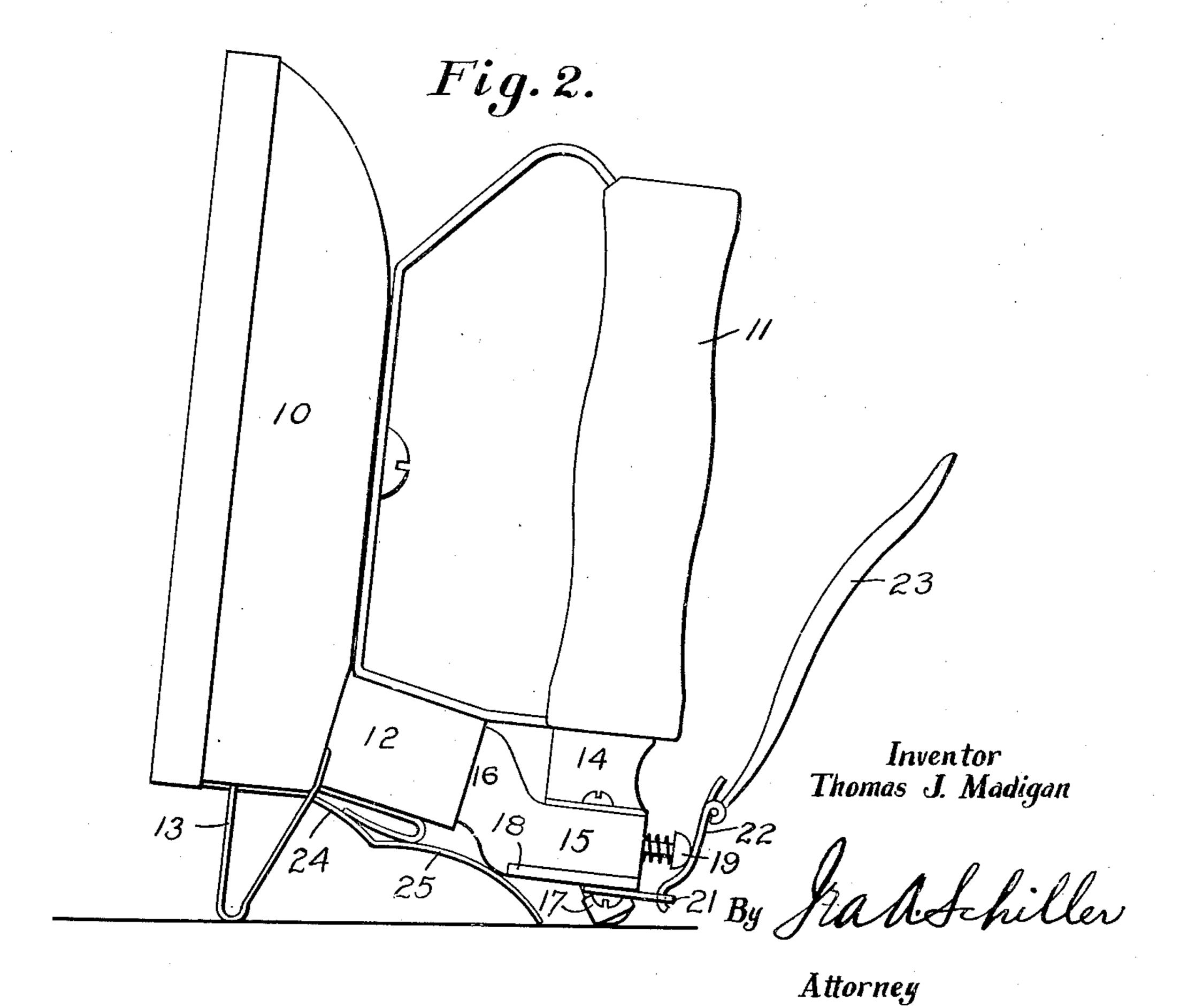
## T. J. MADIGAN

THERMOELECTRIC CONTROL DEVICE





## UNITED STATES PATENT OFFICE.

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THERMOELECTRIC CONTROL DEVICE.

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control devices and more particularly to such is pivoted. control devices as are particularly adapted for Secured at the rear of the iron is a strip use on electric sadirons.

control the supply of electric current to the which is disposed near the free end of the heating element of a common household elec- lever 17 as shown. tric sadiron.

no matically discontinue the supply of current let by the conventional flexible cable (not attended.

ity to irons now in common use which en- tion against the compression of spring 20.

20 which will become more apparent as the de- user desires to heat the iron and attend to 25 and illustrated in the accompanying drawing, in which,

electric sadiron equipped with a current control device in accordance with this invention, 30 the same being shown in full lines in "off" position, and in dotted lines in "on" position.

Figure 2, is a similar view of the iron showing the same in position to heat when left unattended.

Referring to the drawings, in detail, an iron 10 is provided with the customary handle 11, sleeve 12, and guard 13.

Secured to the rear end of the handle 11 is a bracket 14 supporting a switch housing 40 15 which is formed integrally with the body of an attachment plug 16. This plug 16 carries contact sockets for enclosing the customary contact pins carried by the iron 10 and is received in the sleeve 12 as shown.

is a switch lever 17 which is yieldably held in "off" position as shown in full lines in Figure 1. This lever projects through a slot in the cover plate 18 of the housing and its. movement into "on" position, that is, that shown by the dotted lines in Figure 1, is effected by depressing the plunger 19 against the compression spring 20.

In order to facilitate movement of the of plunger 19, a yoke 21 is attached to the housing 15 and provides a fulcrum for the actu-

This invention relates to thermo electric ating lever 22 to which the handle grip 23

24 of thermostatic metal which is bent to 60 The primary object of the invention is to form a curved tongue 25, the free end of

In operation, the iron is used in the usual Another object of the invention is to auto- manner and connected to any convenient out- 65 to the iron when its temperature reaches a pre-shown). When it is desired to heat the iron. determined point, should the iron be left un- the handle grip 23 is pressed into the dotted line position shown in Figure 1. Such move-A feature of the invention is its adaptabil- ment throws the switch lever 17 to "on" posi- 70 ables the user to obtain the benefits of such Should the iron become too hot during the automatic control without the necessity of ironing process, the grip may be thrown back investing in an entirely new appliance. out of the way and the ironing proceeded With the above and other objects in view with, without using any current. When the 75 scription proceeds, the invention consists in other matters during the heating process, the the novel construction, combination and ar- handle grip is depressed and the iron tilted rangement of parts which will be fully set back on its guard as shown in Figure 2. It forth in the following specification, claimed, will thus be seen that the handle portion of 80 the iron will lightly rest upon the lever 17 so as to hold it in "on" position. When the Figure 1, is a side elevational view of an heat reaches a predetermined point, the thermostatic metal strip will be expanded to cause its free end to engage the surface upon which 85 the iron rests, thereby lifting the weight off of the lever 17 so that it will spring back into its normal "off" position. In this manner danger of injury to the heating element of the iron, as well as fire hazard, is eliminated.

While in the foregoing there has been shown and described the preferred embodiment of this invention; it is to be understood that minor changes in the details of construction, combination and arrangement 95 of parts may be resorted to without departing from the spirit and scope of the invention as claimed.

I claim—

1. The combination with an electric sad- 100 Pivotally mounted within the housing 15 iron, of an attachment plug adapted to fit the terminals of the iron, a current control switch on said plug, a handle grip to throw said switch into "on" position, said switch being adapted to be retained in the "on" 105 position by engagement with the surface upon which the iron rests when the iron is tilted back, and thermostatically controlled means to disengage said switch from the surface when the temperature of the iron reaches 110 a predetermined point. 2. The combination with an electric sad-

iron, of an attachment plug adapted to fit the terminals, a switch body on said plug, a switch in said switch body, means to normally hold the switch in "off" position, a handle grip for moving the switch to "on" position, a lever on the switch adapted to engage the surface upon which the iron rests when the iron is tilted back, and thermostatically controlled means to disengage the lever 10 from the surface when the temperature of the iron reaches a predetermined point.

3. The combination with an electric sadiron, of an attachment plug adapted to fit the terminals, a switch body on said plug, a switch in said switch body, means to normally hold the switch in "off" position, a handle grip for moving the switch to "on" position, a lever on the switch adapted to engage the surface upon which the iron rests when the iron is tilted back, and a strip of thermostatically sensitive metal carried by the iron and having its free end disposed

in such position that when the temperature of the iron reaches a predetermined point, said strip will expand and lift the weight of " the iron from the lever to permit the same to

move to "off" position.

4. In an electric control device, an attachment plug, a switch body integral therewith, a switch lever projecting through said body, "" resilient means to normally urge said lever towards "off" position, manually actuated means to throw said lever into "on" position, said switch being adapted to be retained in "on" position by engagement of said lever 33 with the surface upon which it rests, and thermostatically controlled means to disengage said lever from the surface when the temperature of the device reaches a predetermined point.

Signed at New York, county of New York, State of New York, this 13th day of Oc-

tober, 1926.

THOMAS J. MADIGAN.