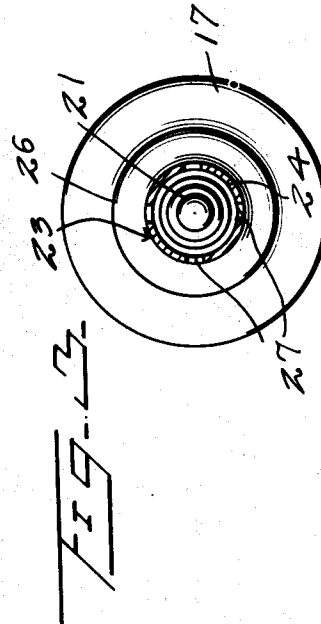
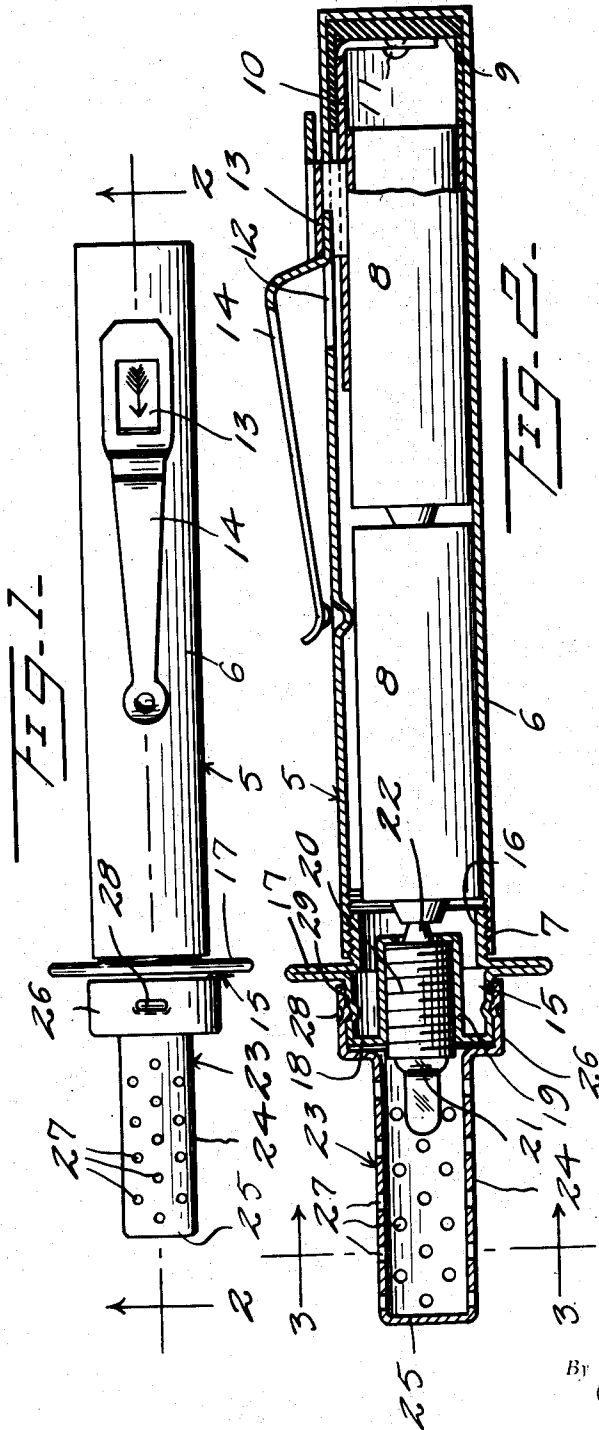


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N. H. PITTS
PORTABLE THERAPEUTIC DEVICE
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PORTABLE THERAPEUTIC DEVICE

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1 Claim. (Cl. 128—396)

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This invention relates to a portable therapeutic device for use in the application of heat to tissues of the human body to be treated as, for example, in the rectal or vaginal cavities.

More particularly, it is an object of the present invention to provide a dilator or shield of a heat conducting material adapted to be demountably attached to a self contained light and heat source having a cavity for receiving a light and heat emitting element thereof and which device is adapted for insertion into the human cavity to be treated for subjecting such portion to light rays and heat rays.

More particularly, it is an object of the present invention to provide a shield or dilator through which rays from a heat and light source contained therein are emitted.

A further object of the invention is to provide a device for internal therapeutic treatment particularly adapted to be mounted as an attachment on a small flashlight or similar self contained light source.

Various other objects and advantages of the invention will hereinafter become more fully apparent from the following description of the drawing, illustrating a preferred embodiment thereof, and wherein:

Figure 1 is an elevational view showing the invention applied to a flashlight;

Figure 2 is an enlarged longitudinal sectional view thereof taken substantially along a plane as indicated by the line 2—2 of Figure 1, and

Figure 3 is a cross sectional view taken substantially along a plane as indicated by the line 3—3 of Figure 2.

Referring more specifically to the drawing, the numeral 5 designates generally a small flashlight of conventional construction and of the so called "pen" type including a housing 6 of cylindrical shape having a closed end and an opposite internally threaded open end 7 and which is shown as containing two dry cell batteries 8 and which preferably contains a socket 9 of insulating material at its closed end and by means of which the batteries 8 are held in engagement with one another and in an advanced position. A bar 10 of electrical conducting material is disposed for longitudinal sliding movement in the housing 6 and is provided with an angularly turned end which is disposed within the socket 9 and which has a projection 11 on the inner side thereof for contact with the negative end of the rear battery 8 when the rod 10 is advanced toward the open end of the housing 6. The housing 6 is provided with a

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longitudinally elongated opening 12 to slidably receive an outwardly offset portion 13 of the bar 10 which is detachably fastened to a pocket clip 14 which is disposed externally of the housing 6 and which additionally functions as a switch actuator for the flashlight 5 by movement longitudinally of the barrel 6 for displacing the contact 11 into and out of engagement with the adjacent battery 8.

The flashlight 5 is provided with a socket 15 which is generally of circular or cylindrical cross section and which has an externally threaded end 16 for engagement with the internally threaded barrel portion 7 and which is provided with an outwardly projecting annular flange 17 adapted to be manually engaged for connecting and disconnecting the socket 15. The outer end of the socket 15 is provided with an annular inwardly extending wall 18 which supports an integral bulb receiving socket 19 which extends inwardly therefrom and which is internally threaded for engagement with the threaded base portion 20 of a small electric bulb 21 which portion 20 makes electrical contact through the socket 15 with the housing 6 which is likewise formed of electrical conducting material. The bulb 21 is provided with the usual base contact 22 which engages the positive contact of the forward battery 8 so that when the contact 11 is displaced forwardly into engagement with the negative end of the rear battery 8 the circuit will be completed for energizing the bulb 21.

The therapeutic device constituting the invention, is designated generally 23 and comprises a substantially cylindrical portion 24 having an outer end 25 which is closed and preferably rounded and which is provided with an integral enlarged opposite open end 26 forming a socket for engagement over the outer end of the socket 15. The device 23 may be formed of any suitable material constituting a good conductor of heat and which is substantially nonbreakable and the cylindrical portion 24 thereof is perforated as seen at 27 throughout its length.

The enlarged end or socket portion 26 may be detachably connected to the outer end of the socket 15 in any suitable manner as by having such parts threaded or by providing them with complementary indentations 28 and 29 to form a snap fit whereby the shield or therapeutic device 23 will be retained in engagement with the flashlight 5 and from which it can be readily disengaged by a pull being exerted thereon. Accordingly, it will be apparent that the device 23 can be readily removed from the flashlight 5 when not

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in use and for the purpose of cleansing and when applied thereto will combine therewith to form a completely portable therapeutic device which can be conveniently carried and utilized where a source of electric current is not available. As seen in Figure 2, the globe of the bulb 21 extends into the cylindrical portion 24 so that when energized the heat therefrom will heat said portion 24 which, when inserted into a human cavity will afford a convenient applicator for the tissues of such cavity to be treated. Further, the light rays and heat rays from the bulb 21 will be emitted through the perforations 27 to the tissues to be treated. Obviously, if desired the globe of the bulb 21 can be elongated to extend substantially the length of the cylindrical portion 24 and a bulb for emitting infra-red rays could be substituted for the bulb 21, if desired.

Various other modifications and changes are contemplated and may obviously be resorted to, without departing from the spirit or scope of the invention as hereinafter defined by the appended claim.

I claim as my invention:

In a therapeutic device, in combination with a self contained light and heat source having a bulb socket at one end thereof and having a lamp bulb

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mounted therein and with the globe projecting outwardly therefrom, an applicator or shield comprising a cylindrical member having an outer closed end and an enlarged inner open end for receiving the bulb socket, latch means for detachably connecting the inner open end of the applicator to said bulb socket for mounting said applicator or shield thereon, said latch means comprising a depression formed in the bulb socket and an internal projection on the inner end of the applicator or shield detachably engaging in the depression, said cylindrical portion defining a cavity for receiving the globe of the bulb and being adapted to be heated thereby.

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