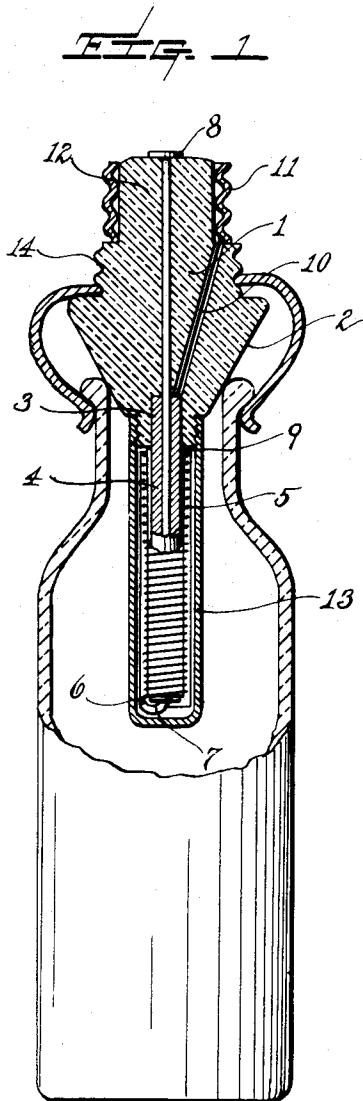
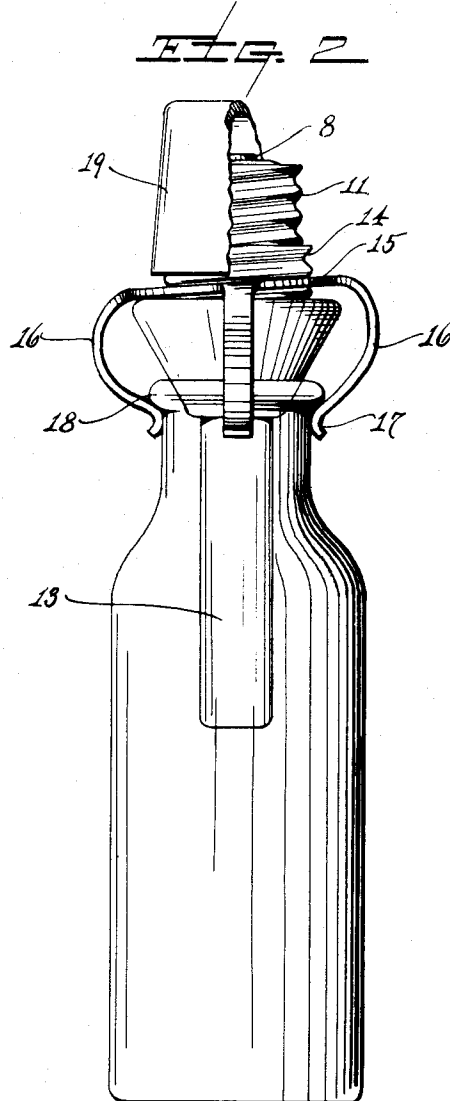


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HEATER FOR BOTTLES AND THE LIKE.
APPLICATION FILED OCT. 4, 1919.

1,434,472.

Patented Nov. 7, 1922.



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HEATER FOR BOTTLES AND THE LIKE.

Application filed October 4, 1919. Serial No. 328,405.

To all whom it may concern:

Be it known that I, CHARLES ANSELM, residing at New York, in the county and State of New York, have invented certain new and useful Improvements in Heaters for Bottles and the like, of which the following is a specification.

This invention relates to an improvement in electric heating devices, adapted for attachment to receptacles, such as bottles, hot water bags, and the like, and one of the objects of the invention is to provide a device of the above type, which may be readily attached to an electric light socket or the like.

A further object of the invention is to provide a device of the above type, which is simple in construction, compact, enabling it to be easily carried or transported, and which is adapted for instant use wherever and whenever required.

Other objects and aims of the invention more or less specific than those referred to above, will be in part obvious and in part pointed out in the course of the following description of the elements, combinations, arrangements of parts and applications of principles, constituting the invention; and the scope of protection contemplated will be indicated in the appended claims.

In the accompanying drawing, wherein I have illustrated a preferred form of embodiment of my invention:

Figure 1 is a vertical sectional view, showing my improved heater attached to a bottle; and

Figure 2 is an elevational view thereof.

Referring now to the drawing, wherein similar reference characters refer to similar parts in both views thereof, the reference numeral 1 denotes the body portion of the device, which is preferably formed of a moldable insulating material, such for instance as hard rubber, or any one of the various moldable insulating compounds now in general use.

The body portion 1 is provided with a tapered or conically formed part 2, which is adapted to enter the neck of a bottle, hot water bag, or the like, the tapered construction enabling it to form a closure for receptacles having necks of various sizes.

Seated in a socket 3, formed in the lower end of the body portion 1, is a tubular member 4, which is preferably formed of an insulating material capable of withstanding

a high degree of heat, such for instance as asbestos, mica, or the like. This tubular member 4 forms a core for a coil of resistance wire 5, the lower end 6 of which is connected with a rod or heavier wire 7, which extends through the tubular member 4, through the body portion 1, and provided with an exposed terminal 8 at the upper end of said body portion 1.

The opposite end 9 of the resistance wire is connected with a wire 10, which extends through the body portion 1, and is attached to a threaded collar 11, positioned upon the cylindrically formed end 12 of said body portion. The terminal 8 and collar 11, correspond in shape and form to the terminal portions of an ordinary electric light bulb, so that the device may be threaded into correspondingly formed sockets.

Threaded upon the lower extremity of the body portion 1 is a metallic casing 13, which completely encloses the resistance wire, and its connections, and forms a liquid proof closure member therefor.

Threaded upon an enlarged portion 14 of the body 1 is a plate 15 having a plurality of downwardly extending spring arms 16, the lower end 17 of each being adapted to engage the neck of the bottle underneath the usual lip 18 thereof, whereby the device may be readily attached to the receptacle to be heated.

The manner of utilizing my improved heater will be obvious from an inspection of the drawing, for it will be seen that with the device inserted within the neck of a bottle, as shown, and the electrical connection made with the source of supply, the heat generated by the resistance wire 5, will be communicated to the metallic casing 13, and the latter being in contact with the liquid contents of the bottle, will operate to heat the same.

In Figure 2 of the drawing I have shown a cap 19 threaded upon the enlarged portion 14 of the body portion 1. This cap, it will be noted, forms a cover for the device to protect the electrical connections, and also when detached forms a small cup from which the liquid contents of the receptacle can be drunk.

It will accordingly be seen that I have provided a device well adapted to attain, among others, all the ends and objects above pointed out, in an exceedingly simple yet efficient manner.

The device will be found especially useful for heating receptacle, such as nursing bottles or the like, enabling a traveller to readily utilize the device wherever there is installed an incandescent lighting system. It is also most useful in other relations and for other purposes.

As many changes could be made in this construction without departing from the scope of the following claims, it is intended that all matter contained in the above description or shown in the accompanying drawing shall be interpreted as illustrative only and not in a limiting sense.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. A device of the class described, comprising a body portion, one end of which is provided with terminals adapting it to be attached to an ordinary incandescent lamp socket, and the opposite end with an electric heating device adapted to be inserted within the neck of the bottle or other receptacle, and spring means for detachably clamping said device to a bottle or other receptacle.

2. In a device of the class described, in combination, a body portion, terminals carried upon one end of said body portion adapting said device to be attached to an electric lamp socket, a depending hollow metallic casing carried by the opposite end of said body portion, adapted to be inserted within the neck of a bottle or other receptacle, a core of insulating material located within said casing, a heating coil located upon said core, said body portion being provided with a part adapted to form a closure with the neck of a receptacle, and a spring

clamping member for fastening said device upon said receptacle.

3. In a device of the class described, a body portion having a cone-shaped part adapting it to be adjustably secured to the neck of a receptacle, one end of said body portion being provided with terminal members adapting it to be attached to an electric lamp socket, a hollow metallic casing secured to the opposite end of said body portion, said casing being adapted to be inserted within the neck of a bottle or other receptacle, a core formed of insulating high heat resisting material located within said casing, a heating coil provided upon said core, connections between said heating coil and said terminals, and resilient means for attaching said device to the neck of a bottle or other receptacle.

4. A device of the class described, comprising in combination a body member provided with a plurality of threaded portions, one of said threaded portions being adapted for attachment with a lamp socket, a spring clamping member mounted upon the other of said threaded portions, a depending hollow metallic casing carried by the opposite end of said body portion, adapted to be inserted within the neck of a bottle or other receptacle, heating means within said casing, and said body member being provided at its intermediate portion with a cone-shaped part adapting it to be adjustably secured to the neck of a receptacle.

In testimony whereof I affix my signature in the presence of two witnesses.

CHARLES ANSELM.

Witnesses:

EMMA WEINBERG,
RAYMOND O'HARE.