

R. SMITH.
ELECTRIC HEATER.
APPLICATION FILED SEPT. 13, 1911.

1,013,327.

Patented Jan. 2, 1912.

Fig. 1.

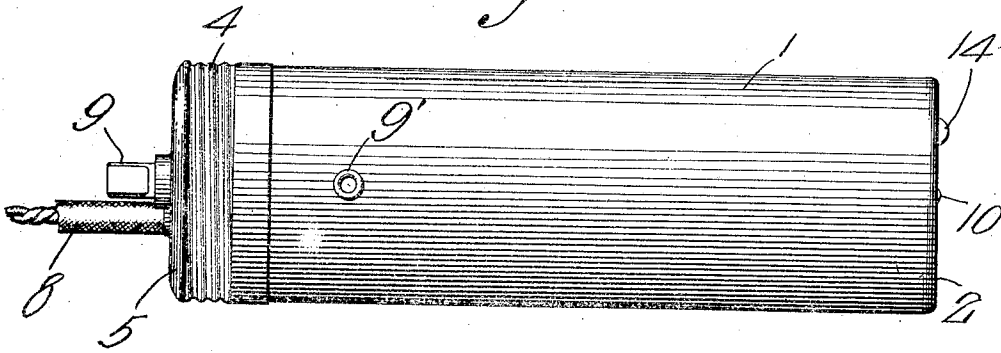


Fig. 2.

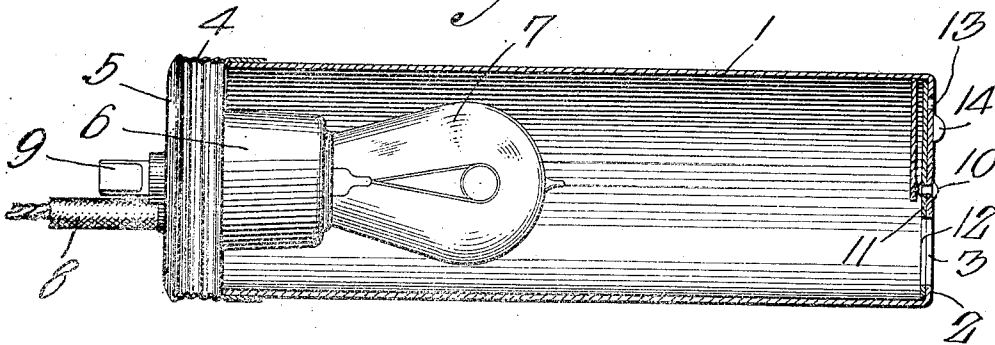


Fig. 3.

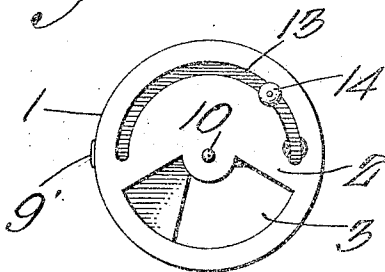
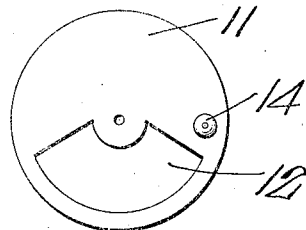


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

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ELECTRIC HEATER.

1,013,327.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ROSE SMITH, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a new and useful Electric Heater, of which the following is a specification.

This invention relates to improvements in electric heaters, and the primary object of the invention is the provision of means whereby an ordinary incandescent or other electric lamp or lamps may be economically utilized as a source of heat and also as a source of light, the said electric lamp being practically housed in a suitable heat conducting material capable of radiating a large amount of heat, said housing being provided with an adjustable shutter arrangement whereby the light from the lamp may also be utilized.

Another object of this invention is the provision of an electrical heating device adapted to be used in lieu of a hot water bottle, the same being made in a convenient form or shape and provided with an exteriorly operated means for actuating the light switch and with an exteriorly operated shutter disposed in the opposite end from the lamp to permit the end of the housing to be closed or opened so that the light from the lamp may be utilized.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings, Figure 1 is a side elevation of the complete heater. Fig. 2 is a longitudinal section through the casing or housing showing an electric lamp housed therein. Fig. 3 is an end view of the casing showing the means for utilizing the light of the lamp. Fig. 4 is a detail view of the shutter used in connection with the casing.

Referring to the drawings, the numeral 1 designates a cylindrical casing which is preferably made of sheet metal and is formed by stamping so that the end 2 thereof, will be formed integral with the walls of the casing, the same being provided with a segmental opening 3, the purpose of which will

presently appear. The open end of this cylindrical casing is formed with threads as at 4 for the removable reception of the plug or cap 5 formed of insulating material, the said plug having mounted upon the inner face thereof a lamp socket 6 for the removable reception of the incandescent bulb lamp 7, while disposed upon the opposite side of the insulating plug or cap is the wire conduit 8, and the switch 9, whereby the current may be controlled to operate the lamp.

In the body of the casing disposed opposite the filament of the lamp is an aperture 9' which provides a peep opening to permit the observer to ascertain whether or not the filament in the lamp is incandescent or burned out.

In the sealed end 2 of the casing is a concentric pin or pivot 10, whereby the shutter 11 is mounted for rotation within the casing, the said shutter being provided with a segmental aperture 12, which is adapted to match or align with or be moved in various adjustable positions with relation to the segmental opening 3 of the casing, said end 2 being further provided with the arcuate slot or groove 13 for the engagement and movement of the button 14 which is connected to the shutter 11, whereby the said shutter may be rotated to cause the aperture 13 to be placed in alignment with the aperture 3 of the casing or to cause the body portion of said shutter to close the aperture 3 of the casing to confine the rays of light within the casing. By this construction it will be seen that the heat radiated by the lamp is confined within the casing, especially when the shutter 11 is in closed position, thus providing a desirable heating device for use in a sick room, or in lieu of a hot water bottle.

When it is desired to utilize the light from the lamp, the shutter 11, as before described, may be turned by means of the button 14 to bring its aperture 13 into coincidence with the opening 3 of the casing, thus permitting the rays of light to pass through the opening in the casing and the opening of the shutter to illuminate, the peculiar construction of the casing concentrating the rays to be projected so that the heater may be used as a hand lamp. This shutter 11 also provides a means whereby the heat radiated from the walls of the casing may be regulated at will, allowing certain amount of the heat to escape through the openings of the shutter and the casing when in coincidence,

thus preventing too great a radiation of heat from the walls of the casing. Where a gentle modified heat is desired, the shutter 11, when acting in the nature of a damper may
5 be moved to the open position, and where all the heat possible from the lamp is necessary, the shutter is closed and the lamp is completely housed within the casing and
10 neither heat nor light escapes therefrom except by radiation of the heat through the walls of the casing.

To renew the lamp it is simply necessary to remove the insulated plug carrying the lamp socket, the lamp being unscrewed and
15 a new one replaced in the ordinary manner.

What is claimed is:

1. An electric heater, comprising a suitable casing having a closed end with a light passage therein and an arcuate slot concentric thereof, a removable cap plug of insulating material mounted in the open end of
20 said casing, a shutter carried by the closed end of the casing and provided with a passage movable into and out of matching relation with the passage of the closed end of
25 the casing, a lamp socket for an incandescent lamp carried upon the inner face of the movable plug, and a switch operating means for

the lamp disposed upon the outer face of said cap plug. 30

2. An electric heater, comprising a suitable casing having a closed end with a light passage therein and an arcuate slot concentric thereof, a removable cap plug of insulating material mounted in the open end of
35 said casing, a shutter carried by the closed end of the casing and provided with a passage movable into and out of matching relation with the passage of the closed end of the casing, a lamp socket for an incandescent
40 lamp carried upon the inner face of the removable plug, a switch operating means for the lamp disposed upon the outer face of said cap plug, and a button carried by the
45 shutter and disposed through the arcuate slot in the closed end of the casing to permit of the oscillation of the shutter within the casing.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature
50 in the presence of two witnesses.

ROSE SMITH.

Witnesses:

H. A. TILDEN,
EDNA KELLEY.