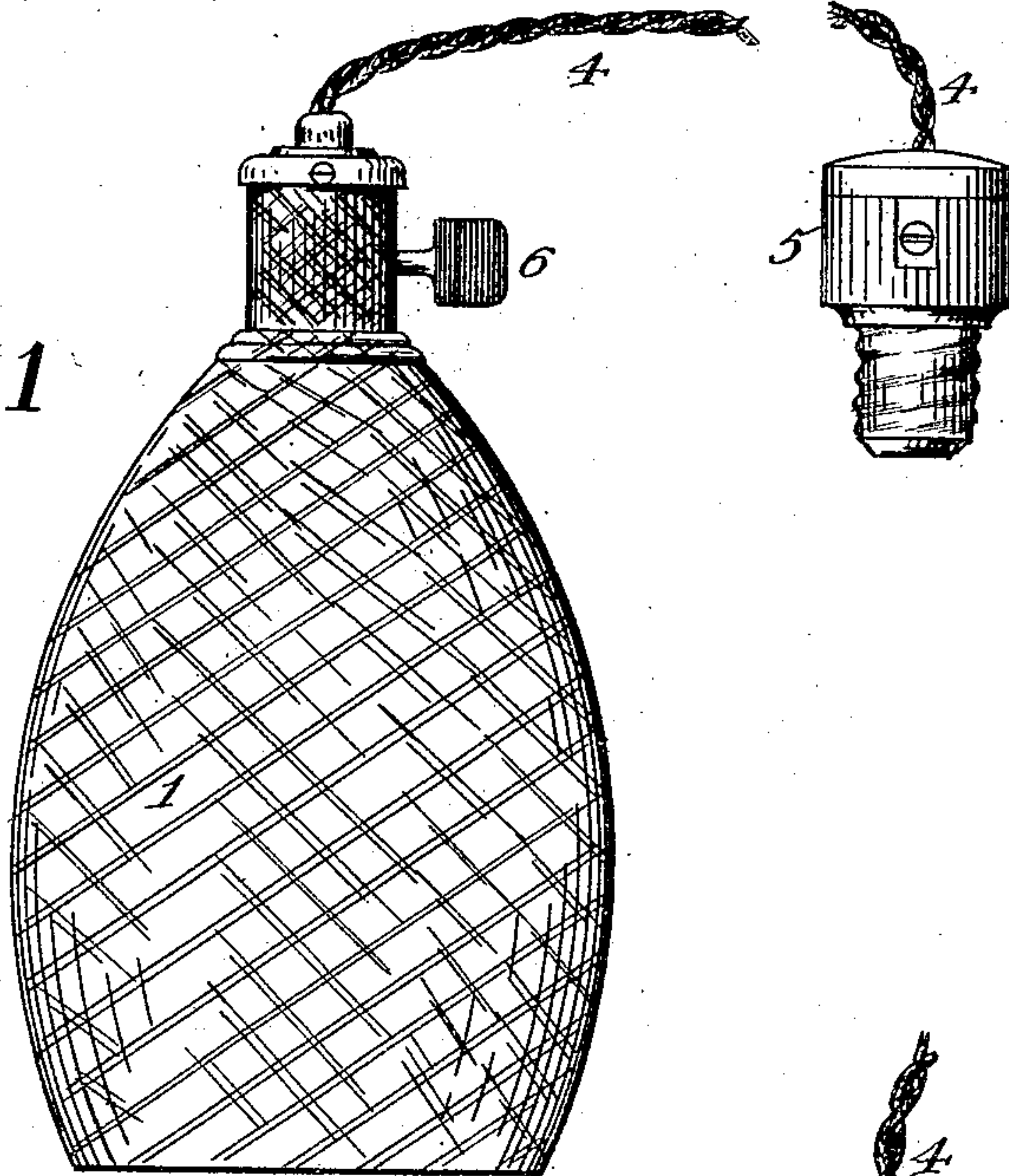


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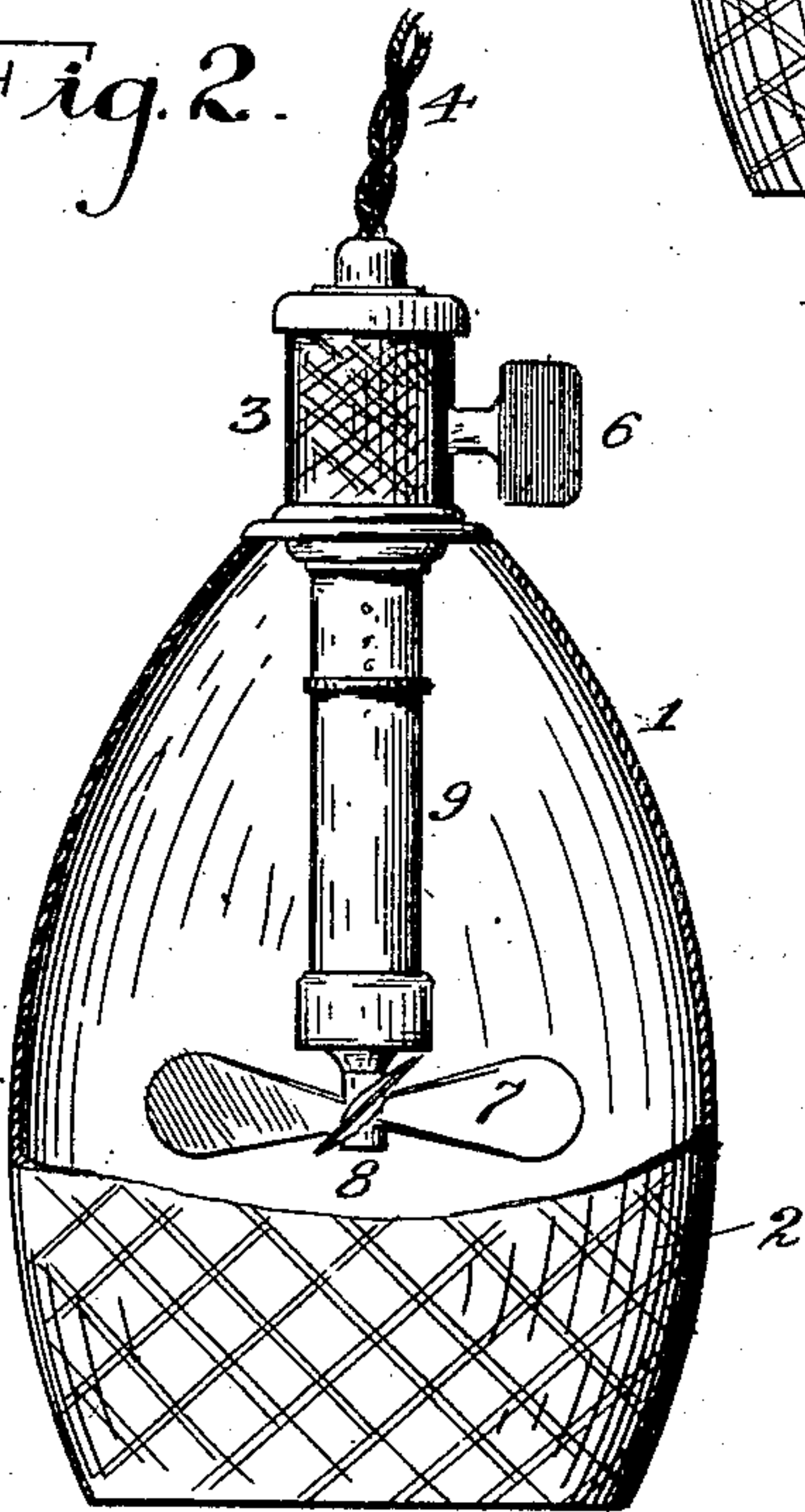
PATENTED MAY 29, 1906.

C. C. VAUGHN.  
BED WARMER OR COOLER.  
APPLICATION FILED JUNE 19, 1905.

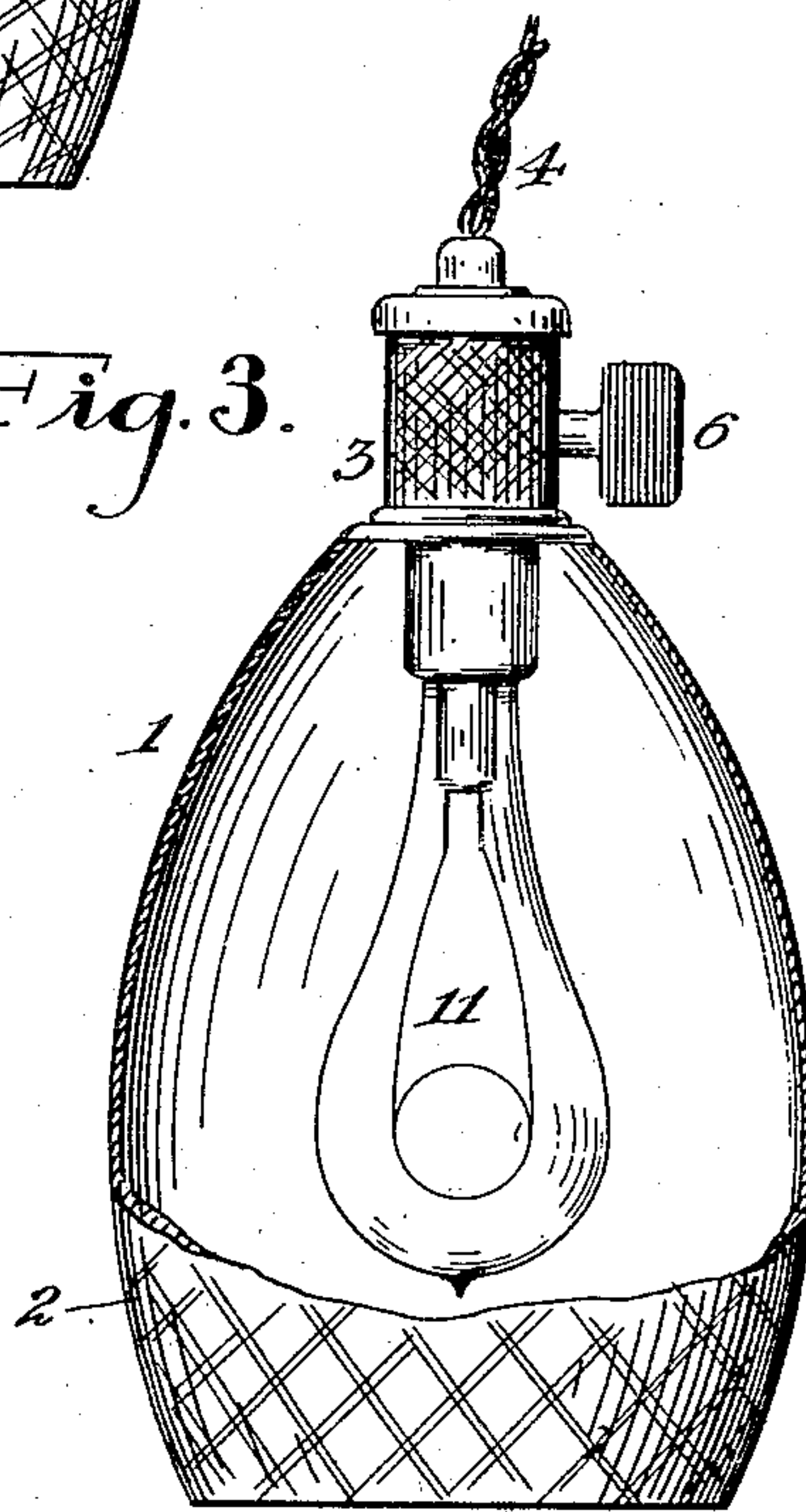
*Fig. 1*



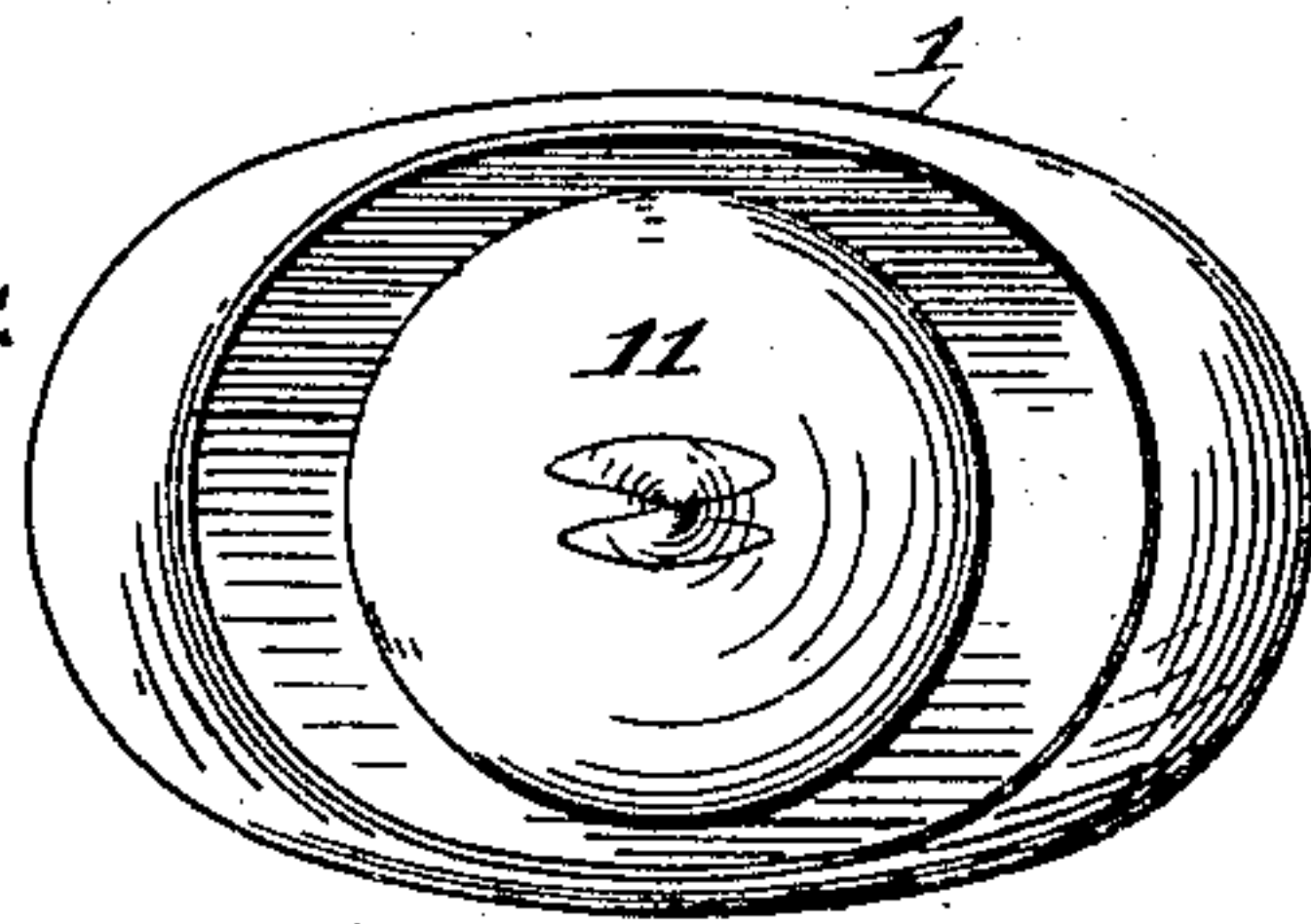
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



Witnesses:  
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# UNITED STATES PATENT OFFICE.

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MESNE ASSIGNMENTS, TO G. X. WENDLING, OF SAN FRANCISCO,  
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## BED WARMER OR COOLER.

No. 822,167.

Specification of Letters Patent.

Patented May 29, 1906.

Application filed June 19, 1905. Serial No. 266,074.

*To all whom it may concern:*

Be it known that I, CHARLES C. VAUGHN, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Bed Warmers or Coolers, of which the following is a specification.

The invention relates to means for changing the temperature of the air in beds, whether by raising or by lowering it.

My object is to provide a small and convenient receptacle adapted to be fitted with air-heating or air-cooling means and having means for electrically connecting it with any usual source of electricity, such as an incandescent electric-light current. My idea is to take advantage of the presence of an electric current in houses, steamboats, railway-trains, &c., for either heating or cooling the air in beds and berths in a very simple and convenient way. Such a device when used as a heater takes the place, for instance, of the well-known hot-water bottles under circumstances when it is impossible or exceedingly inconvenient to get such bottles filled with hot water. In addition my invention is adapted to perform the service of cooling as well as heating by a simple change in mechanism.

Embodiments of my invention in its different forms are shown in the accompanying drawings.

Figure 1 is a side elevation. Fig. 2 is a sectional elevation showing the device as a cooling means. Fig. 3 is a similar view showing the device in use as a heating means. Fig. 4 is a bottom plan.

The receptacle 1 is a receptacle of convenient size and shape to be used in a bed or berth in contact with the body. It can be made of any suitable material, such as sheet metal, or, if preferred, can be formed of a somewhat elastic wire fabric, which must, however, be sufficiently stiff to avoid any complete collapsing and consequent injury to the mechanism contained within. I have shown it in the drawings as constructed of solid material. In any case it has an open base or bottom, as shown in Fig. 4. This receptacle is covered with some non-conducting material, such as an asbestos fabric, and is then preferably inclosed by an external

cloth wrapper of some suitable kind, such as eider-down flannel or canton flannel, as shown at 2.

The upper or smaller end of the receptacle is closed by a plug 3, into which enter the conductors 4 of an electric circuit in a well-known manner. Such conductors are connected to a screw-plug 5, as indicated in Fig. 1, which plug is adapted to connect the structure in an electric circuit, such as an ordinary electric-lighting circuit, and being provided with proper contacts for making such connections in a manner well understood. An ordinary switch-button 6 is shown in the drawings for opening and closing the circuit.

In Fig. 2 is shown an electric fan 7, adapted to revolve within the receptacle and mounted upon a shaft 8. This shaft is the shaft of a small electric motor within a casing 9, and which is not shown, as its mechanical construction and manner of operation are well understood. When the receptacle is connected into the circuit through the medium of a sufficient length of flexible conductor and the switch 6 is turned to admit the current to the motor, the fan 7 is given a rapid rotation, which expels air directly through the middle part of the bottom opening, producing a cooling air-current.

In Fig. 3 I have illustrated how a heating device can be substituted for the cooling-fan, heretofore described. An ordinary electric lamp 11 is interchangeable with the motor-casing and fan and is connected to the plug 3 in the usual manner. The device always being used in a confined space, from which access of air is practically excluded, such a lamp will heat the receptacle to an extent which will afford the amount of comfort to the body ordinarily produced by hot-water bottles, with the additional advantage that there is no cooling or renewing of hot water, as with the present bottles.

The open bottom of the receptacle performs the double function of allowing the heating means or the cooling means to be placed in position and of permitting the escape of cool or warm air, as the case may be.

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

A device for changing the temperature in

beds comprising a casing having its bottom  
open and a small opening in its top, a plug 3  
entirely closing said small opening, a motor-  
casing carried by said plug and extending  
5 into the main casing, a motor therein and a  
fan in the main casing connected to the mo-  
tor-shaft.

In testimony whereof I have affixed my  
signature, in presence of two witnesses, this  
8th day of June, 1905.

CHARLES C. VAUGHN.

Witnesses:

HENRIETTA BURT,  
M. R. SEELY.