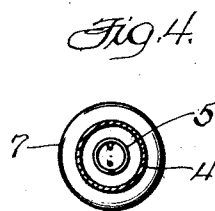
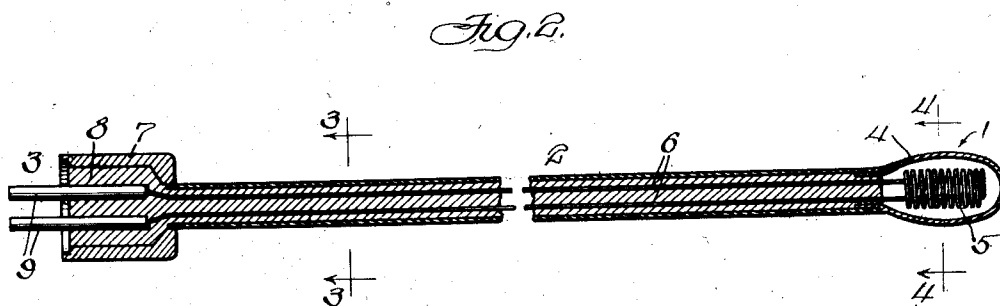
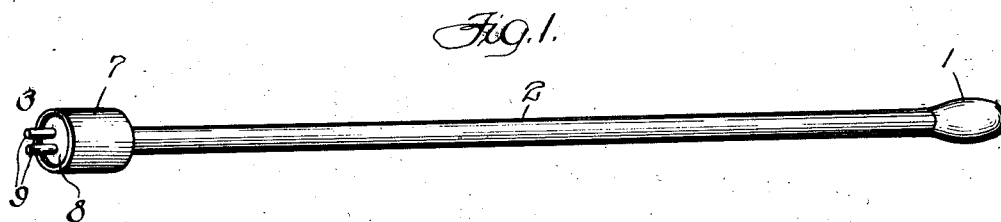


Feb. 1, 1927.

J. W. D. CHESNEY
THERAPEUTIC APPLIANCE
Filed Dec. 26, 1922

1,615,828



Inventor:
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UNITED STATES PATENT OFFICE.

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THERAPEUTIC APPLIANCE.

Application filed December 26, 1922. Serial No. 609,068.

This invention relates to therapeutic appliances.

It will be explained as applied to an appliance adapted for application to the œsophagus and sigmoid flexure and whereby heat and infra red rays are produced for treatment of diseased conditions therein.

One of the objects of the invention is to provide an improved therapeutic appliance.

Another object is to provide an appliance which may be readily adapted for insertion into the œsophagus or sigmoid flexure.

Another object is to provide a heat and infra red ray generator with an elongated flexible stem so that the same may be caused to reach deeply within orifices of the human body.

Another object is to provide an appliance which is simple, reliable, efficient and readily manipulated and manufactured.

Other objects and advantages will hereinafter appear.

An embodiment of the invention is illustrated in the accompanying drawing, wherein—

Fig. 1 is a perspective view of the appliance or "applicator".

Fig. 2 is a longitudinal section thereof.

Fig. 3 is a section on the line 3—3 of Fig. 2, and

Fig. 4 is a section on the line 4—4 of Fig. 2.

The appliance comprises, in general, an active head 1, a flexible stem 2, and a connector 3.

Head 1 comprises a somewhat capsule or egg shaped hollow shell 4 of brass or other suitable material. The external surface of shell 4 is preferably coated with a covering of black paint, lacquer, enamel or plate. Such a covering causes the head to approach quite closely to the condition of a perfect emitter of a radiant energy and, when heated, to produce infra red rays in relatively great quantity. This coating should be of such a character that it will remain stable when subjected to heat slightly in excess of normal blood temperatures.

A heating element is located within the chamber of shell 4. This heating element may consist of a number of turns or coils

5 of suitable resistance wire. These coils may be wound upon a core of suitable material, such as mica, if desired. The chamber may be filled with suitable heat conducting material, such as alundum.

The open end of shell 4 fits within one end of tube 2 and may be secured in place by suitable means such as solder. The adjacent edges of shell 4 and tube 2 should fit together so as to form a smooth surface.

Stem 2 is a hollow tube of easily flexible material such as lead pipe which is capable of a fixed set when bent. Conductors 6 from heating element 5 pass therethrough and the space may be filled with suitable heat insulating material such as asbestos cement. Stem 2 may also be coated with lacquer, paint or enamel.

Connector 3 comprises an enlarged metal nipple 7 which is secured to tube 2 by solder or other suitable means. A plug 8 of suitable insulating material closes the end of nipple 7 and serves as a support for a pair of pin terminals 9 to which conductors 6 are soldered.

Terminals 9 are adapted to be received in suitable plug receptacles of well known construction.

When current is applied to heating element 5, the temperature of head 1 is raised and the same emanates heat and infra red rays. The flexible stem may be bent into any desired curves for facilitating entrance into and passage through or into the œsophagus or the sigmoid flexure. Thus the heat and infra red rays emanated from head 1 may be generated and applied within the body of the patient and in the immediate vicinity of the area or region to be treated.

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

A therapeutic appliance comprising a flexible stem, capable of a fixed set when bent, a head carried on one end of the stem and coated with a material capable of emitting infra red rays when heated, and means within the head for heating the same.

In testimony whereof I hereunto subscribe my name.

JACQUES WALLACE D. CHESNEY.