Jan. 4, 1927. 1,613,537

A. SCACCHITTI

VAPORIZER

Filed Nov. 17, 1924

Fig. 1.

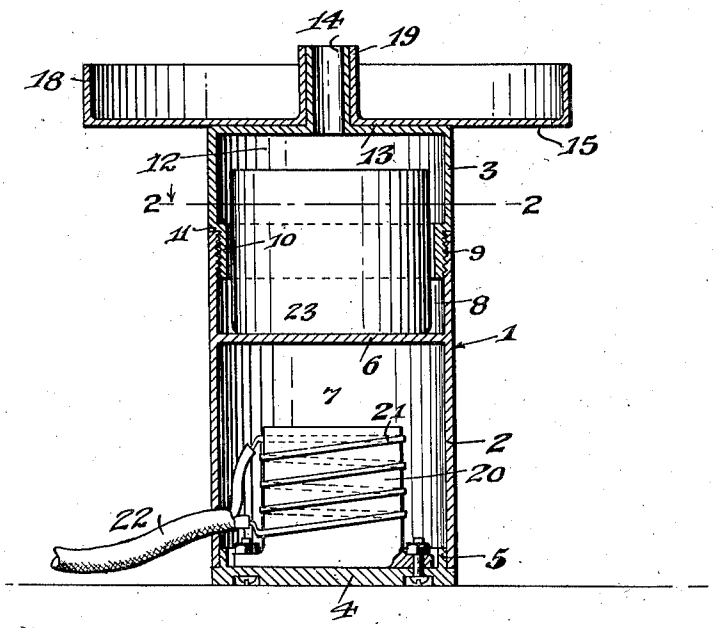


Fig. 2.

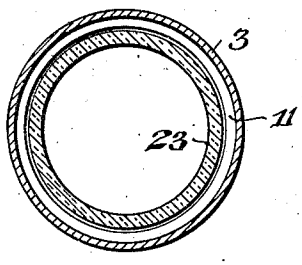
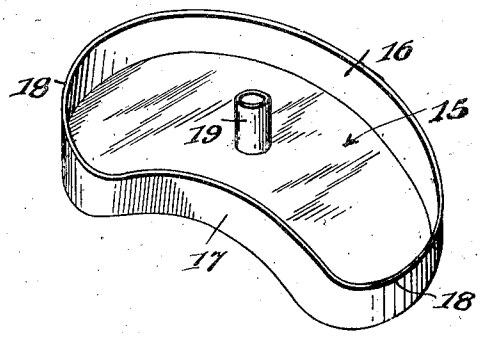


Fig. 3.



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Patented Jan. 4, 1927. 1,613,537

UNITED STATES PATENT OFFICE.

ARNALDO SCACCHITTI, OF SPRINGFIELD, ILLINOIS.

VAPORIZER.

Application filed November 17, 1924. Serial No. 750,341.

This invention relates to a vaporizer for vaporizing medicinal substances for the treatment of diseases of the mouth and teeth.

The primary object of this invention is the provision, in a manner as hereinafter set forth, of a heater containing a receptacle removably positioned within the same, and beneath an outlet tube extending from the top of the receptacle. Medicinal substance placed within the receptacle and heated to the vaporization point by the electric heater therein, passes through the outlet at the upper end of the device and is allowed to enter the mouth of the user, for the treatment of the teeth. Supported upon the upper end of the receptacle is an elongated shallow tray member of concavo convex contour to enable the convenient location of the same against or below the chin of the user so that fumes rising from the receptacle will pass directly into the mouth of the user. Any moisture which might form upon the lips of the user, or which might result from the condensation of the vapors leaving the receptacle, will be caught in the tray, thereby eliminating any possibility of the user of the device spoiling his clothing.

A further and final object of the invention is the provision, in a manner as hereinafter set forth, of an electrically heated vaporizing device for use in treating the teeth, of simple but compact and serviceable design, neat in appearance, easily accessible for cleaning, efficient in action, and inexpensive to manufacture.

The invention will be best understood from a consideration of the following detailed description taken in connection with the accompanying drawings forming a part of this specification, with the understanding that the invention is not confined to any strict conformity with the showing of the drawings but may be changed and modified so long as such changes and modifications mark no material departure from the salient features of the invention as expressed in the appended claim.

In the drawings:

Figure 1 is a vertical longitudinal sectional view of the device embodying this invention.

Figure 2 is a section taken upon the line 2—2 of Figure 1, and

Figure 3 is a detail perspective view of the tray used in connection with this device.

Referring now to the drawings in detail, wherein like numerals of reference indicate corresponding parts throughout the several views, there is shown a vertically positioned cylindrical casing or body, indicated as a whole by the numeral 1, the same being divided into two parts, a lower portion 2 and an upper portion 3. The lower portion 2 has a removable body 4 fitted therein, the bottom being provided with upstanding annular flange 5 which is inset from the edge of the bottom to extend into the body and frictionally engage the inner face thereof as shown.

The portion 2 further has a partition 6 therein extending transversely thereof, this partition being formed integral with the side wall and separating the lower portion in two parts to provide a lower chamber 7 and an open upper end 8. The interior face of the open upper end is threaded as at 9.

The lower part of the upper portion 3 is inset as at 10, thus setting up the overhanging edge or shoulder 11. The outer face of this inset portion 10 is likewise threaded to correspond with the threads 9 of the lower portion, and the part 10 is adapted to threadably engage the threads 9 to bring the shoulder 11 down against the top edge of the open upper end of the portion 2, thus closing the same and setting up a chamber 12 at the upper portion of the body 1.

The top 13 of the portion 3 has extending upwardly from the central portion thereof a tube 14, the passage of which opens through the top 13 and into the chamber 12.

Mounted or supported upon the top of the cylinder 1 is a relatively long shallow tray, indicated as a whole by the numeral 15, one side of this tray being curved outwardly as at 16 and the other side curving inwardly as at 17, thus giving to the tray a concavo convex contour or making it substantially kidney shaped, as shown in Figure 3. The ends 18 of the tray are rounded as shown. Extending upwardly from the central portion of the bottom of the tray 17 is a tube 19 which opens through the bottom of the tray 15, and which is of an internal diameter equal to or slightly greater than the external diameter of the tube 14 to adapt the same to be extended over the tube 14 to allow the tray to rest upon the top 13 of the upper portion 3.

Secured to the upper side or face of the bottom 4 is a body of insulation 20 about which there is wound a resistance element

21 which element connects with an electric cord 22 which extends through an aperature in the side of the portion 2.

Positioned within the chamber 12 and supported upon the partition 6, is a receptacle 23, in which medicinal substances are placed, when the device is to be used.

The device is preferably constructed of copper or brass, with the exception of the tray 15 which applicant desires to form of aluminum or other white or bright metal. It is of course to be understood that applicant does not confine himself to the use of the materials here stated, but has only mentioned the preferred type.

In the use of this device, the portion 3 is unscrewed from the portion 2 and the receptacle 23 has placed therein the medicinal substance with which treatment is to be given. The upper portion 3 is then replaced over the receptacle, the tray 15 is positioned upon the top 13 with the tube 14 extending through the tube 19 of the tray, and the user holds the device in such a manner that the concave portion 17 of the tray fits against the lower portion of the chin, thus directing the outlet tube 14 of the chamber 12 toward the user's mouth, which is held open in such a manner that the vaporized medicinal substance issuing therefrom, after the same has become heated and volatilized by the heater in the chamber 7, will enter the mouth and atack any diseased portion thereof.

From the foregoing description it will be readily understood that there has been provided novel and unique, as well as efficient means for treating diseases of the teeth.

Having thus described my invention what I claim is:

In a device of the character described, a shell formed in two sections, one constituting a substantially cylindrical body having an unbroken side wall, a partition in said body elevated above its bottom, the latter being removably held, said other section forming a cover for the body and having a tubular projection centrally thereof and rising vertically above the same, a heater element encased in the body beneath said partition, and a substantially kidney shaped tray having a tube telescoped on the tubular projection with the tray resting upon the cover.

In testimony whereof, I affix my signature hereto.

ARNALDO SCACCHITTI.