R. R. McGREGOR.

EUCATHOL INSPIRATOR.

APPLICATION FILED OCT. 19, 1918.

1,304,339.

Patented May 20, 1919.

Fig. 1.

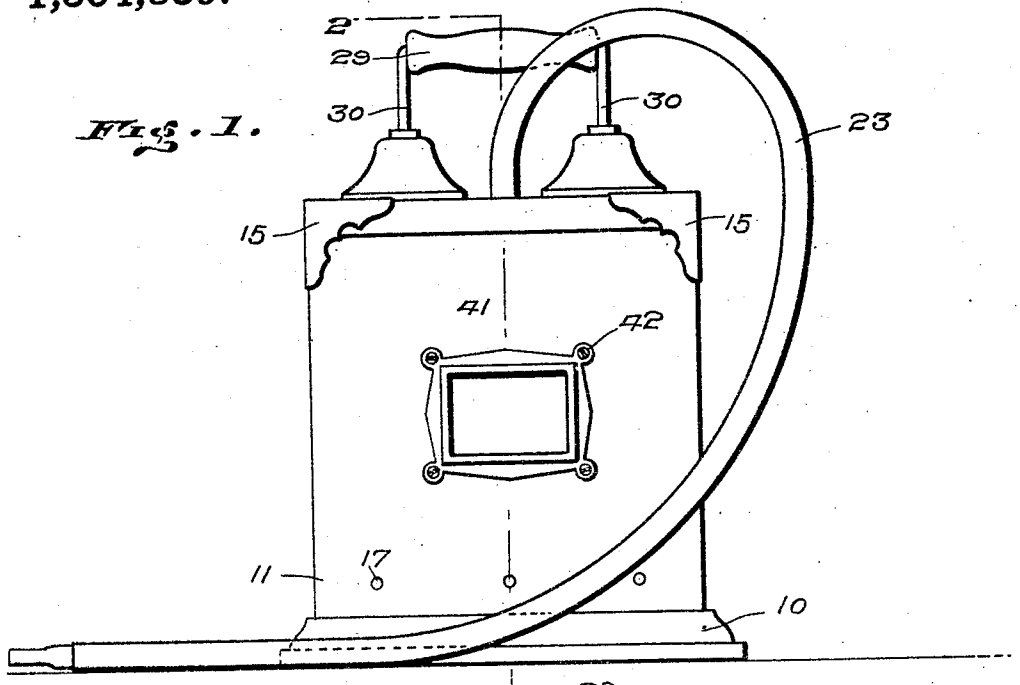


Fig. 2.

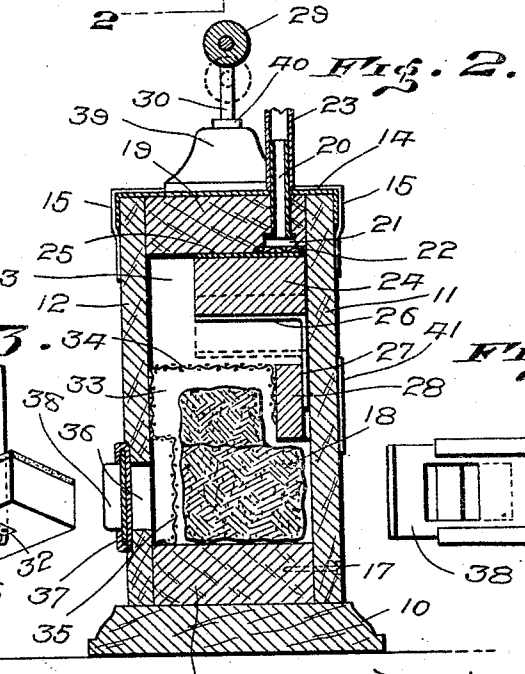


Fig. 3.

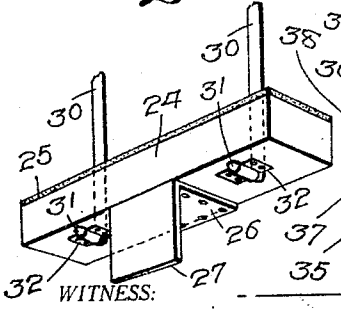
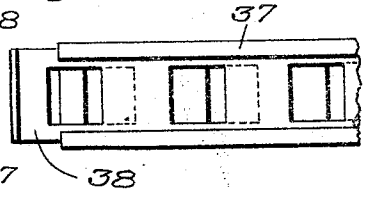


Fig. 4.



WITNESS:

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UNITED STATES PATENT OFFICE.

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EUCATHOL-INSPIRATOR.

1,304,339. Specification of Letters Patent. Patented May 20, 1919.

Application filed October 19, 1918. Serial No. 258,838.

To all whom it may concern:

Be it known that I, RINGLING R. McGREGOR, a citizen of the United States, residing at Hot Springs, in the county of Garland and State of Arkansas, have invented certain new and useful Improvements in Eucathol-Inspirators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to an eucathol inspirator; and is particularly adapted for use of a medicinal substance known as eucathol used in the treatment of acute and chronic diseases of the head, ear, eye, nose, throat, bronchial tubes or lungs by the inhalation of the vapor from the body of medicine.

The invention has for an object to provide a novel and improved construction of casing adapted to contain the medicinal substance and to embody therein a slidably mounted valve member connected with the handle of the casing so that the aperture connecting with the inhaling tube may be closed when the handle is lifted.

Other and further objects and advantages of the invention will be hereinafter set forth and the novel features thereof defined by the appended claims.

In the drawing:

Figure 1 is an elevation of the invention;

Fig. 2 a vertical section on line 2—2 of Fig. 1 with the tube broken away;

Fig. 3 is a detail perspective of the valve block; and

Fig. 4 an elevation of the air inlet slide.

Like numerals refer to like parts in the several figures of the drawings.

The invention comprises a rectangular casing formed of the base 10 provided with the front 11 and back members 12. These are connected by the end members 13 and held in their relative position by the metallic top plate 14 which is provided at the corners with depending brackets 15 of angular formation to embrace the side and front and end plates and hold them in their proper fixed relation. Upon the base 10 a block 16 is disposed to which the front and end members are secured by any desired means such as the nails 17 which leaves the back member removable for the purpose of securing access to the interior of the casing in order to replace the medicinal substance 18 therein.

Attached to the top plate 14 is a block 19, through which the inhaling pipe 20 extends and communicates with a recess 21 in this block. The inner end of this recess is closed by a screen 22 to prevent the passage of solid material therethrough. Attached to the extended upper end of the pipe 20 is the inhaling tube 23 which may be of any desired construction or configuration. Coöperating with the opening 21 at the inner end of the pipe 20 is a valve block 24 provided upon its upper surface with a packing 25 and adapted to close the inhaling opening when in raised position as shown in full lines in Fig. 2. This block is guided in its movement by means of an angular plate 26 attached thereto, the depending portion 27 thereof operating in a slot formed in a strip 28 attached to the inner face of the front plate. This valve block 24 is adapted to be raised and lowered by means of the handle 29 from which depending rods 30 extend and pass through the valve block as shown in Fig. 3. The lower ends of these rods are secured to the block by being bent at an angle thereto as at 31 and embraced by a clip 32.

The medicine chamber 33 in the base of the casing is provided with a wire cloth covering 34 to retain the eucathol which is in a solid body or lump within the casing and this cloth covering may if desired be extended downward, as at 35, to cover or protect an air inlet opening 36 in the back 11 of the casing. This inlet opening may be closed in any desired manner, for instance by means of an apertured guide plate 37 secured to the back, in which a similar apertured slide plate 38 is mounted. A single aperture may be used but if a series are found desirable, the form of slide plate shown in Fig. 3 is adapted for use so as to close this aperture to prevent evaporation of the eucathol when the inspirator is not in use. For the purpose of guiding the rods 30 extending from the handle, they may be surrounded by conical or bell-shaped casings 39 having collars 40 mounted at their upper ends to fit the rods passing therethrough and these parts are preferably formed of metal and plated as desired. Upon the front 11 a frame 41 to retain a designated label may be secured in any desired manner, for instance by the screws 42 disposed at the corners thereof.

The operation of the invention will be apparent from the foregoing description, from which it will be seen that the concentrated eucathol is adapted to be retained in solid

form in the bottom of the receptacle and when the handles are depressed and the air inlet open the patient can freely inhale the vapors thereof to secure the curative results in the treatment of any diseases of the head, throat or lungs. When it is desired not to use the instrument the handle may be raised and the friction of the rods retains the valve plate in position to close the inhaling outlet while the air inlet may be similarly closed thus preventing evaporation and loss of the medicine within the casing. It will also be seen that the rear wall of the casing may be readily removed by riveting the top plate so as to obtain access for cleaning or refilling purposes. The invention presents a simple, efficient and economically constructed inspirator particularly adapted for use with a solid medicant such as eucathol, and which may be readily used and safely transported whenever desired.

What I claim is:

1. An inspirator comprising a casing having an inhaling outlet, and a medicine chamber therein, a valve within the casing for closing said outlet, and a handle connected to the valve for pulling the valve to close said outlet and for carrying the casing.

2. In an inspirator, a casing, a top plate provided with an inhaling outlet, a medicine chamber provided within the body of the casing, a slidably mounted valve block adapted to close said inhaling opening, a handle carried by the casing and connected to operate said block, and a removable back plate provided with an air inlet aperture.

3. In an inspirator, a casing, a top plate provided with an inhaling outlet, a medicine chamber provided within the body of the casing, a slidably mounted valve block adapted to close said inhaling opening, a handle carried by the casing and connected to operate said block, a removable back plate provided with an air inlet aperture, and an angular guide plate carried by said valve block and having a depending portion operated within the slot within the casing.

4. In an inspirator, a base, a block secured thereto, front and side walls secured at the bottom of said block, a loosely mounted back wall, a cover plate having angular corner brackets embracing the respective walls, a block carried by said cover plate and provided with an inhaling passage, a handle having depending rods slidably mounted in said cover, and a valve block carried by said rods within the casing to close said inhaling aperture.

5. In an inspirator, a base, a block secured thereto, front and side walls secured at the bottom of said block, a loosely mounted back wall, a cover plate having angular corner brackets embracing the respective walls, a block carried by said cover plate and provided with an inhaling passage, a handle having depending rods slidably mounted in said cover, a valve block through which said rods extend, angular portions at the lower ends of said rods secured to the end face of said valve block, and an angular guide plate having a depending portion slidably mounted within a slot within said casing.

6. In an inspirator, a base, a block secured thereto, front and side walls secured at the bottom of said block, a loosely mounted back wall, a cover plate having angular corner brackets embracing the respective walls, a block carried by said cover plate and provided with an inhaling passage, a handle having depending rods slidably mounted in said cover, a valve block through which said rods extend, angular portions at the lower ends of said rods secured to the end face of said valve block, an angular guide plate having a depending portion slidably mounted within a slot within said casing, a medicine chamber disposed within the casing beneath said valve block, a screen covering for said chamber, and a valve controlled inlet in the back wall of said casing communicating with said medicine chamber.

7. An inspirator comprising a casing having two openings, one for the inlet of air and the other providing an inhaling outlet, valves for said openings, one to control the flow of air, and the other within the casing for closing the other opening, and a handle connected to the last named valve to pull the same outwardly to close the respective opening, and to lift and carry the casing.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

RINGLING R. McGREGOR.

Witnesses:
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Gus. Sterrett.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."