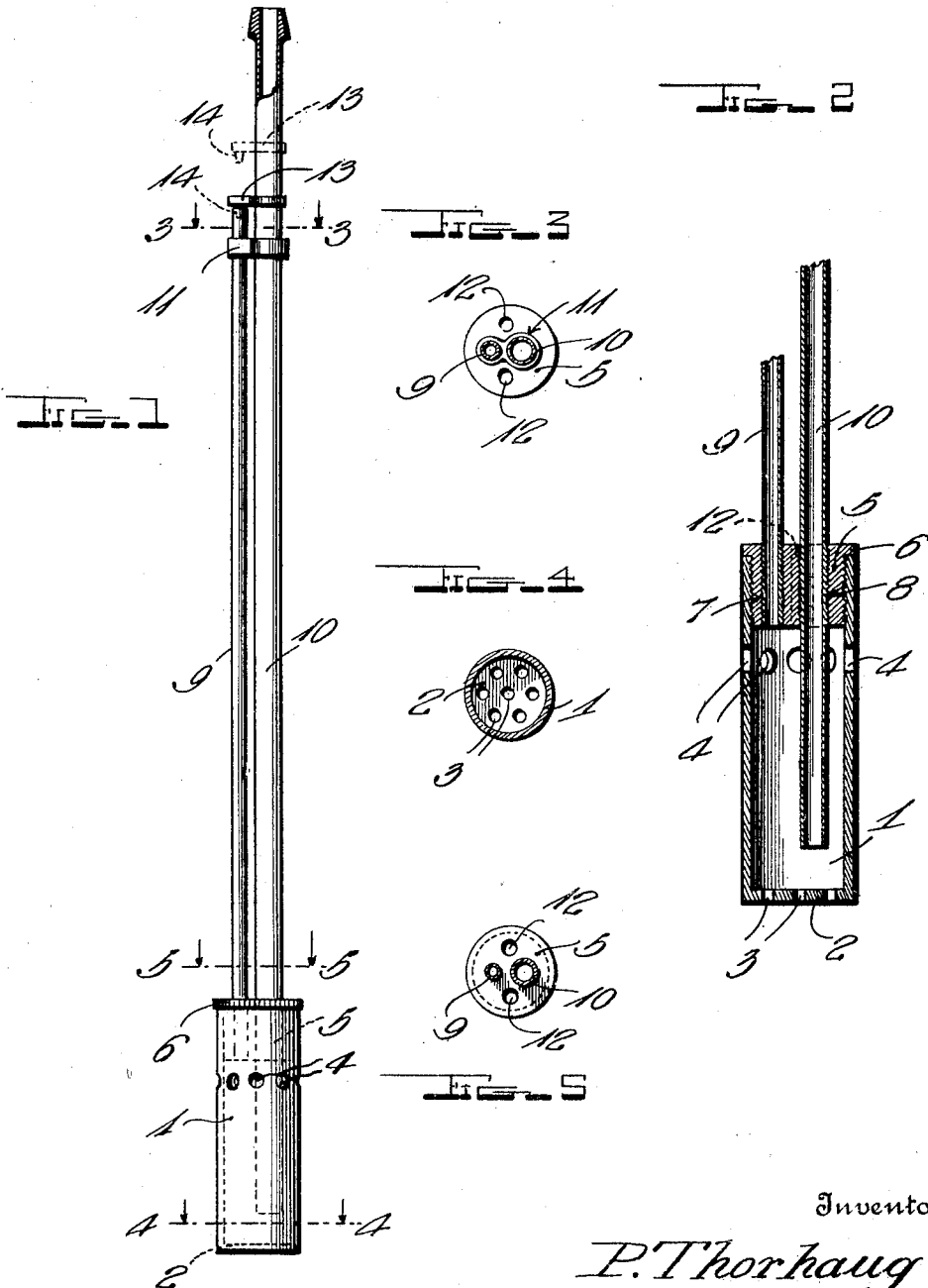


P. THORHAUG.
 EMBALMER'S DRAINAGE TUBE.
 APPLICATION FILED AUG. 2, 1920.

1,367,759.

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UNITED STATES PATENT OFFICE.

PETER THORHAUG, OF MINNEAPOLIS, MINNESOTA.

EMBALMER'S DRAINAGE-TUBE.

1,367,759.

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To all whom it may concern:

Be it known that I, PETER THORHAUG, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Embalmers' Drainage-Tubes; and I do 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 improved drainage tube for use in embalming, and one object of the invention is to provide a device of the character described including a suction tube and a vent tube having connection with a head which will serve to prevent the tubes from being choked and further serve as supporting means holding the tubes in their proper operative relation.

Another object of the invention is to provide improved means for closing the vent tube when necessary, the closure being mounted upon the suction tube and movable thereon into and out of position to close the vent tube.

Another object of the invention is to so construct this device that the head or nozzle as it may be termed may be taken apart to permit of thorough cleaning.

Another object of the invention is to so construct this device that it will be simple in construction and easy to take apart or put together.

This invention is illustrated in the accompanying drawings, wherein:

Figure 1 is a view showing the improved device in side elevation.

Fig. 2 is an enlarged vertical sectional view through the head or nozzle and portions of the vent and suction tubes.

Fig. 3 is a transverse sectional view taken along the line 3—3 of Fig. 1.

Fig. 4 is a transverse sectional view through the head or nozzle taken along the line 4—4 of Fig. 1.

Fig. 5 is a transverse sectional view taken above the head along the line 5—5 of Fig. 1.

This improved draining device or tube is provided with a cylindrical head or nozzle 1 which is provided with a closed lower end 2 having openings 3 formed therein so that liquid may pass through these openings and into the interior of the nozzle. The walls of the nozzle adjacent the open upper end which is internally threaded, are provided

with larger openings 4 which also permit of the passage of liquid into the interior of the nozzle. A plug 5 is screwed into the internally threaded upper end portion of the nozzle and provided with an outstanding flange 6 at its upper end for engaging the end of the nozzle as shown in Fig. 2 and thus limiting movement of the plug into the nozzle and further permitting the plug to be easily put in place or removed. This plug is provided with openings 7 and 8 to receive the vent tube 9 and suction tube 10, the vent tube terminating at the inner end of the plug and the suction tube extending down into the nozzle to a point adjacent the closed lower end thereof. These tubes 9 and 10 extend in parallel relation and are connected by the collar 11 so that the tubes will be held in the proper spaced relation and prevented from moving transversely. From an inspection of Figs. 3 and 5, it will be seen that in addition to the openings 7 and 8 to receive the tubes 9 and 10, the plug 5 is provided with openings 12 so that liquid may pass through these openings into the interior of the nozzle. The tube 9 terminates short of the outer end of the tube 10 and in order to close this vent tube when desired, there has been provided a plate 13 which is slidably mounted upon the suction tube 10 and provided with a plug 14 for fitting into and closing the open upper end of the vent tube 9. It will thus be seen that when it is desired to prevent air from entering the nozzle 1 through the tube 9, it is only necessary to slide the plate 13 down upon the tube 10 until its plug 14 enters and closes the upper end of the tube 9.

When this device is in use, the tube of a suction pump of any conventional construction will be connected with the enlarged upper end of the suction tube 10 and the device will be inserted in an opening formed in the body to be drained. When the suction pump is in operation, the liquid or semi-liquid materials to be drawn out will pass into the nozzle or housing 1 through the openings 2, 4 and 12 and will be drawn out of the nozzle through the suction tube 10. If it is desired to have the vent tube 9 open, the plate 14 will be moved to the dotted line position shown in Fig. 1 or if it is desired to have this tube closed to prevent passage of air through the same, the closure plate will be moved to the operative position shown. After the draining has been com-

pleted, the device will be removed and can be easily and quickly cleaned by removing the hollow nozzle or housing 1 from the plug 5. The device can then be thoroughly cleaned and reassembled. It will thus be seen that there has been provided a drainage device which will be very efficient in operation and which may be easily and quickly cleaned when necessary.

10 I claim:

1. A drainage device comprising a tubular housing open at its upper end and having its bottom and side walls provided with inlet openings, a plug screwed into the open upper end of the housing, a suction tube extending through the plug into the housing to a point adjacent the bottom thereof, a vent tube extending through the plug parallel to the suction tube and terminating short of the upper end thereof, and a plate slidably mounted upon the suction tube above the vent tube and having a plug for fitting into and closing the open upper end of the vent tube.

25 2. A drainage device comprising a suction tube and a vent tube, a plug having the vent tube and suction tube extending through openings formed therein, a perforated housing carried by the plug and forming a nozzle having the suction tube extending therein, and a closure for the upper end of the vent tube carried by the suction tube.

3. A drainage device comprising a suction tube and a vent tube, a plug having the vent tube and suction tube extending through openings formed therein and serving as means for carrying the tube in operative relation, and a perforated nozzle carried by the plug with the suction tube extending beyond the plug into the nozzle.

40 4. A drainage device comprising a nozzle having inlet openings and open at its upper end, a closure for the open upper end of the nozzle, a suction tube carried by the plug and extending through the same into the interior of the nozzle, a vent tube extending through an opening formed in the closure and having its outer end portion connected with the suction tube, and means for closing the open upper end of the vent tube adjustably carried by the suction tube.

5. A drainage device comprising a perforated nozzle, a closure for one end of the nozzle, a suction tube extending through the closure into the nozzle, and a vent tube extending through the closure for communicating with the interior of the nozzle.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

PETER THORHAUG.

Witnesses:

LARS O. HAUG,
LAURA HOLMBERG.