March 17, 1931. M. NOGRADI 1,797,153

VAPOR BATH CABINET

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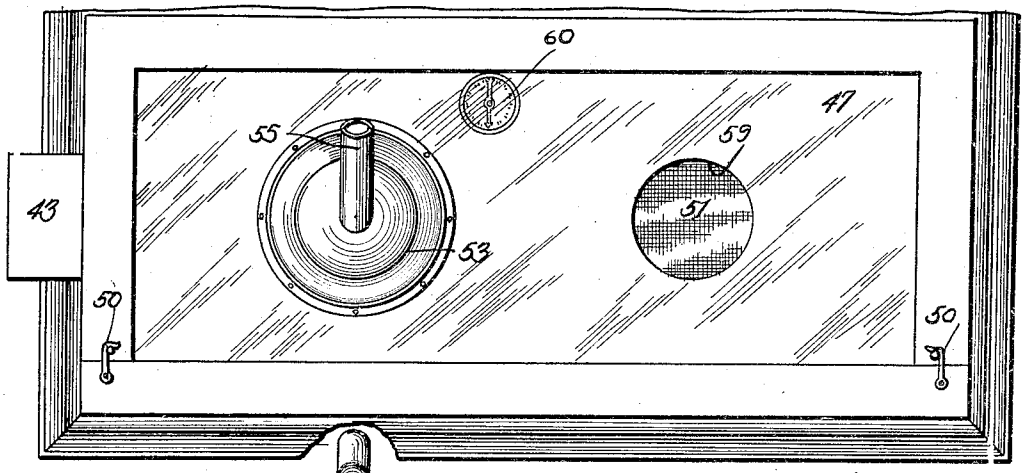


Fig. 1.

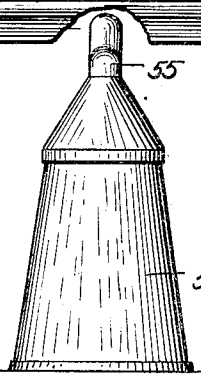
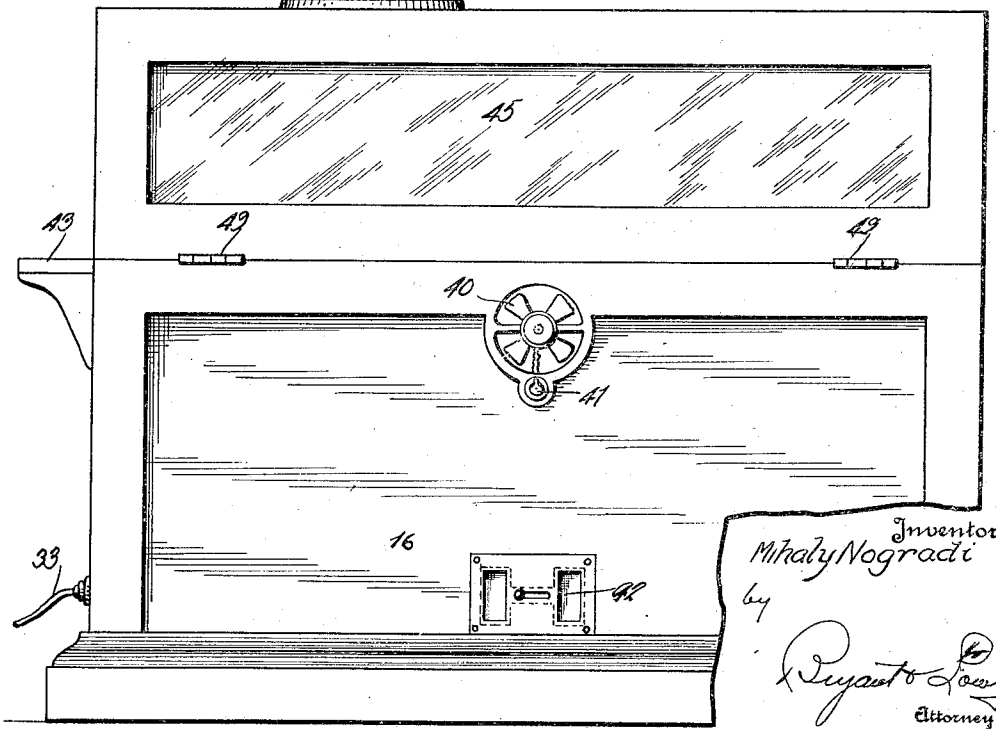


Fig. 2.



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Fig. 4.

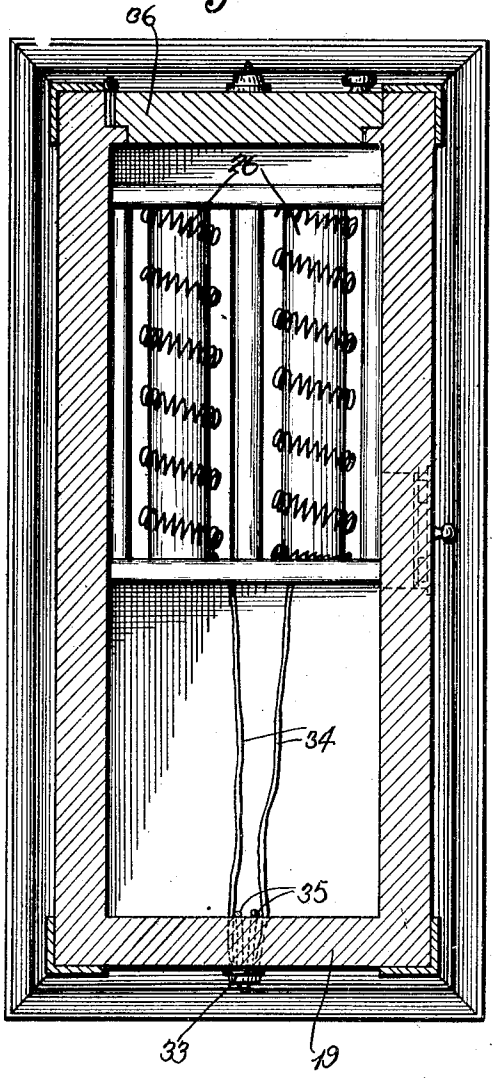
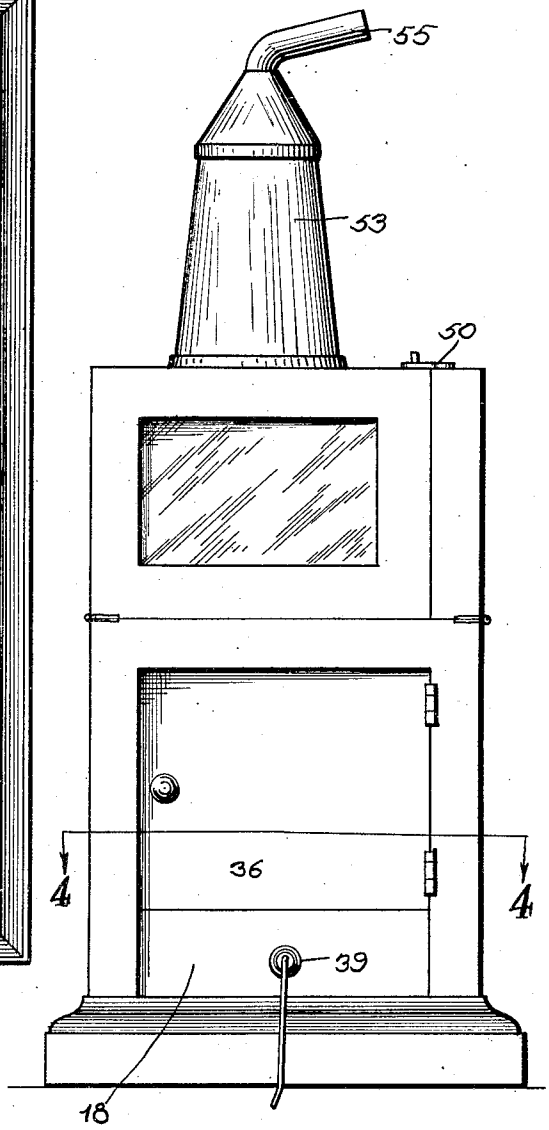


Fig. 3.



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VAPOR BATH CABINET

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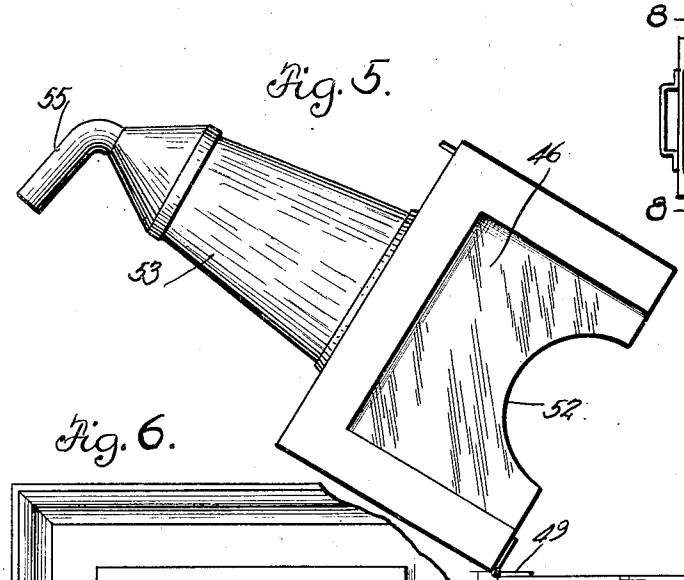


Fig. 5.

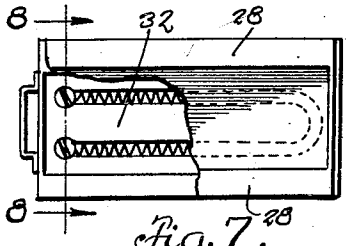


Fig. 7.

Fig. 6.

Fig. 8.

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VAPOR BATH CABINET

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Fig. 9.

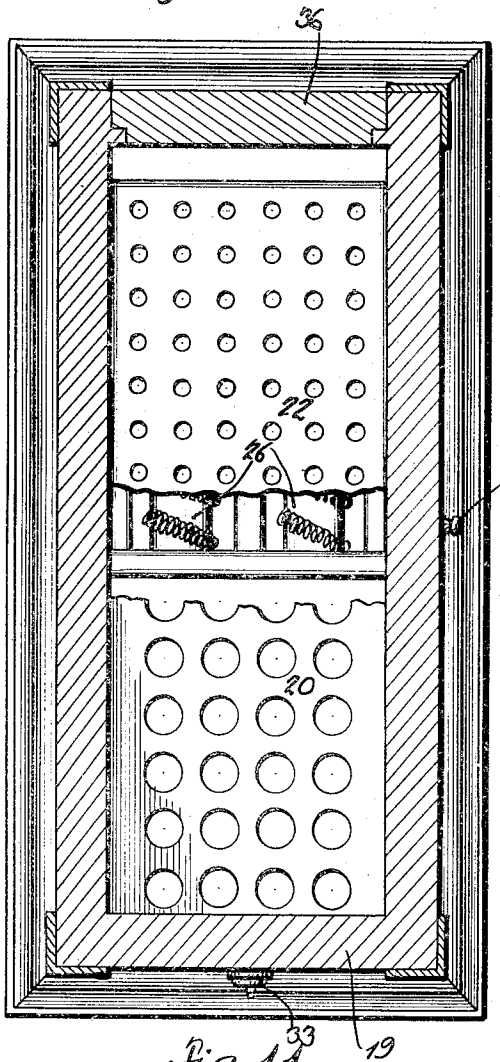


Fig. 10.

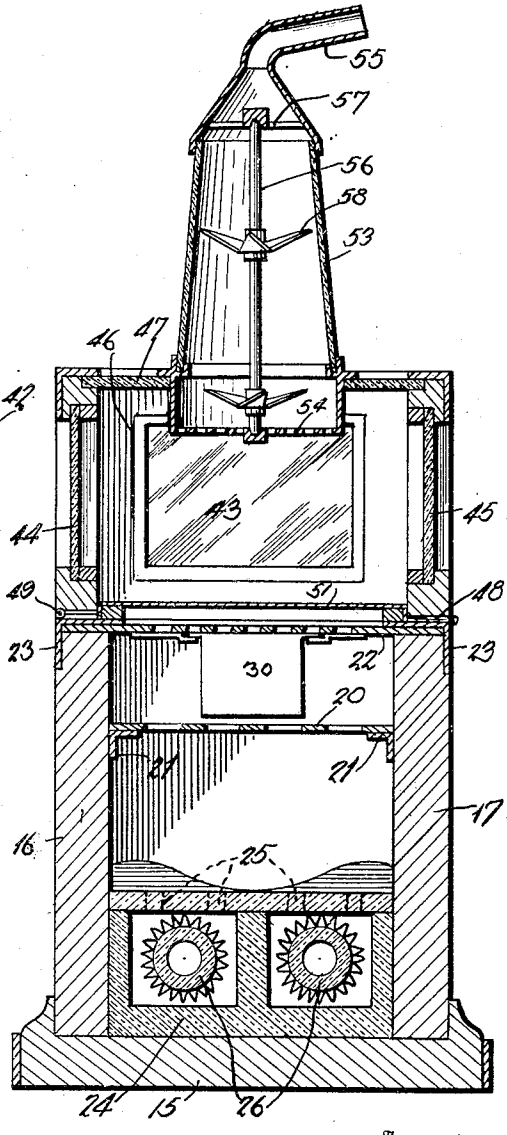
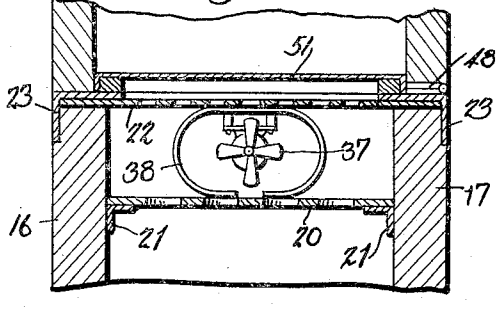


Fig. 11.



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Patented Mar. 17, 1931 1,797,153

UNITED STATES PATENT OFFICE

MIHALY NOGRADI, OF NEW BRUNSWICK, NEW JERSEY

VAPOR-BATH CABINET

Application filed August 15, 1930. Serial No. 475,586.

This invention relates to certain new and useful improvements in vapor bath cabinets.

The primary object of the invention is to provide a vapor bath cabinet with a base heating chamber and an upper compartment or chamber into which the heated air is driven over the body of a person reclining therein and with exhaust fans associated with the upper chamber or compartment for carrying away vapors, gases and the like in the upper compartment or chamber.

A further object of the invention is to provide a vapor bath cabinet formed of upper and lower hingedly connected sections with heater devices contained in the lower section, with a spread or couch section upon which a person rests the upper section being moved to open position upon its hinged mounting, permitting the entrance of a person to the cabinet.

With the above and other objects in view that will become apparent as the nature of the invention is better understood, the same consists in the novel form, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawing and claimed.

In the drawings:—

Figure 1 is a top plan view of a vapor bath cabinet constructed in accordance with the present invention;

Figure 2 is a side elevational view;

Figure 3 is an end elevational view showing the end door in the lower section of the cabinet permitting access to the heater units therein;

Figure 4 is a horizontal sectional view taken on line 4—4 of Figure 3 showing one of the heater units in the base section of the cabinet;

Figure 5 is an end elevational view, similar to Figure 3 of the opposite end of the cabinet showing the hinged sections thereof in opened position;

Figure 6 is a horizontal sectional view taken on line 6—6 of Figure 3 with parts broken away showing the fabric couch spread and the reticulated plates therebeneath disposed above the base heater and the vapor fan position to register with the back or spine of a person;

Figure 7 is a top plan view, partly broken away of the vapor pan showing the heater unit in the bottom section thereof;

Figure 8 is a cross-sectional view taken on line 8—8 of Figure 7, showing the support for the vapor pan on the upper reticulated plate in the bath cabinet;

Figure 9 is a horizontal sectional view, similar to Figure 6;

Figure 10 is a vertical cross-sectional view extending through one of the exhaust stacks of the cabinet; and

Figure 11 is a detail sectional view showing a blower fan located at one end of the cabinet between the pair of spaced reticulated plates.

Referring more in detail to the accompanying drawings, there is illustrated a vapor bath cabinet comprising a base heater section and an upper bath section hinged thereto, the base section comprising a bottom 15 carrying side walls 16 and 17 and end walls 18 and 19. A reticulated plate 20 is supported in the base section on brackets 21 between the upper and lower ends of the side and end walls thereof while a second reticulated plate 22 resting at its edges on the upper ends of the side and end walls is retained in position by the angle strips 23, the perforations in the plate 22 being smaller than the perforations in the plate 20.

A heating unit is mounted upon the base 15 of the lower section and includes a casing 24 of insulation material as shown in Figure 10 having its upper wall apertured as at 25 and containing heater units 26 in the form of electric resistances.

As shown in Figures 5 to 8 and 10, a vapor pan is slidably mounted upon the lower side of the upper reticulated plate 22 and above the lower plate 20, the vapor pan being in the form of a rectangular receptacle 27 having side flanges 28 resting upon side flanges 29 carried by a holder 30, the flanges 28 and 29 being slidably moved into position upon side guides 31 carried by the underside of the reticulated plate 22. An electric resistance element 32 is confined in the holder 30 beneath

the bottom of the receptacle 27 so that water or a chemical contained in the receptacle will be vaporized and escape through the perforations in the plate 22, the vapor pan being located at the head end of the base section for directing the vapors emanating therefrom onto the back or spine of a person. An electric switch or socket 33 set into the end wall 19 of the base section and connected with a suitable source of electrical energy has wire connections 34 with the base heater unit 26 and wire connections 35 with the heater unit in the vapor pan, the base heater unit being preferably arranged at the end of the base section opposite the vapor pan. The end wall 18 of the base section is provided with a hinged door 36 permitting access to the base heater unit.

As shown in Figure 11, a fan 37 is supported on the upper end of the end wall 18 between the reticulated plates 20 and 22, the fan being surrounded by a guard 38 and having a wire connection with the switch or plug 39 set into the lower end of the end wall 18. An electric fan 40 is set into an opening in the side wall 16 of the base section and is controlled by the switch 41 as shown in Figure 2, the fans 37 and 40 blowing heated air upwardly through the reticulated plate 22. As shown in Figure 2, a sliding damper 42 is set into the lower side of the side wall 16 for regulating the flow of air into the base section of the cabinet. A head rest 43 is carried by the end wall 19 of the base section adjacent the vapor pan and arranged outwardly of the cabinet body as shown in several of the figures.

The upper section of the cabinet constitutes the bath chamber and is hinged to the base section, the upper section comprising side glass panelled sections 44 and 45, end sections 46 and a top section 47, the top, ends, and side panelled sections 44 being integrally connected and separate from the side panelled sections 45, the latter being hingedly mounted as at 48 at its lower edge to the upper side of the side wall 17 of the base section, while the lower edge of the side panel 44 of the upper section is hinged as at 49 to the upper edge of the side wall 16 of the base section. The meeting edges of the top panelled section 47 of the upper section and the side panel section 45 are detachably connected together by latches 50 as shown in Figure 1. The two parts of the upper section are adapted to be moved to open positions to permit entry of a person who will recline upon the fabric spread or couch 51 supported upon the upper reticulated plate 22 and in spaced relation thereto. The end panel 46 of the upper section is cut away as at 52 at the end thereof adjacent the head rest 43 so that the head of the person may be disposed exteriorly of the cabinet.

A ventilating and exhaust device is associated with the upper panelled side 47 of the upper section for carrying off vapors, poisonous gases and the like and as shown in Figure 10, an upwardly tapering stack 53 rises from the panel 47 and above a reticulated cup-shaped member 54 supported in the panel 47, the upper end of the stack 53 having a funnel-shaped outlet 55. A shaft 56 is journaled at its lower end in a member 54 and at its upper end in the spider 57 within the stack and carries fan blades 58, it being noted by reference to Figure 1, that the top panel section 47 is also provided with a screened vent opening 59 with which an exhaust stack may be associated if desired. The draft of heated air induced in the cabinet by the fans 37 and 40 rotates the fan wheel 58 in the stack 53 to induce a further draft through the cabinet for carrying off the vapors and poisonous gases. It will be observed upon reference to Figure 1 that a thermometer 60 is carried by the top panel 47 of the upper section for determining the temperature within the cabinet and which is controlled by the switch devices.

From the above detailed description of the invention it is believed that the construction and use thereof will at once be apparent, it being noted that a person reclining upon the couch spread 51 is so positioned with his head resting upon the support 43 exteriorly of the cabinet and with the back or spine directly above the vapor pan. The heat in the cabinet causes excessive perspiration and poisons exuded from the body will be carried away in the form of vapor by the fans in the exhaust stack, considerable moisture being absorbed by the spread 51 which may be easily removed, cleaned and replaced.

While there is herein shown and described the preferred embodiment of the invention, it is nevertheless to be understood that minor changes may be made therein without departing from the spirit of the invention or the scope of the sub-joined claims.

I claim:—

1. In a vapor bath cabinet, a base section and an upper section hinged thereto, heater units in the base sections, means for forcing a current of air over the heater units and into the upper section, one of the heater units being in the form of a vapor pan, and a reticulated plate separating the lower and upper sections and disposed above the heater units.

2. In a vapor bath cabinet, a base section and an upper section hinged thereto, heater units in the base section, means for forcing a current of air over the heater units and into the upper section, exhaust means for vapors and gases in the cabinet rising perpendicularly from the upper section, including a stack having a funnel outlet, and fan wheels journalled in the stack operated by current flow through the stack.

3. In a vapor bath cabinet, a base sec-

tion and an upper section hinged thereto, heater units in the base sections, means for forcing a current of air over the heater units and into the upper section, one of the heater units being in the form of a vapor pan, and the other heater unit comprising an electric resistance element housed in a perforated insulation casing.

4. In a vapor bath cabinet, a base section and an upper section hinged thereto, heater units in the base sections, means for forcing a current of air over the heater units and into the upper section, the upper hinged section including integral glass panelled ends, top and one side with the lower edge of the side hinged to the base section, and another side of the upper section hinged to the base section with the free edge of the last named side adapted to be secured to the adjacent edge of the top of the upper section, and an exhaust stack for vapors and gases carried by the top.

5. In a vapor bath cabinet, a base section and an upper section hinged thereto, heater units in the base sections, means for forcing a current of air over the heater units and into the upper section, one of the heater units being in the form of a vapor fan, the upper hinged section including integral glass panelled ends, top and one side with the lower edge of the side hinged to the base section, and another side of the upper section hinged to the base section with the free edge of the last named side adapted to be secured to the adjacent edge of the top of the upper section and an exhaust stack for vapors and gases carried by the top.

6. In a vapor bath cabinet, a base section and an upper section hinged thereto, heater units in the base sections, means for forcing a current of air over the heater units and into the upper section, one of the heater units being in the form of a vapor pan, a reticulated plate separating the lower and upper sections and disposed above the heater units, the upper hinged section including integral glass panelled ends, top and one side with the lower edge of the side hinged to the base section, and another side of the upper section hinged to the base section with the free edge of the last named side adapted to be secured to the adjacent edge of the top of the upper section and an exhaust stack for vapors and gases carried by the top.

7. In a vapor bath cabinet, a base section and an upper section hinged thereto, heater units in the base section, means for forcing a current of air over the heater units and into the upper section, exhaust means for vapors and gases in the cabinet rising perpendicularly from the upper section, the upper hinged section including integral glass panelled ends, top and one side with the lower edge of the side hinged to the base section, and another side of the upper section hinged to the base section with the free edge of the last named side adapted to be secured to the adjacent edge of the top of the upper section and an exhaust stack for vapors and gases carried by the top.

8. In a vapor bath cabinet, a base section and an upper section hinged thereto, heater units in the base section, means for forcing a current of air over the heater units and into the upper section, one of the heater units being in the form of a vapor pan, and exhaust means for vapors and gases in the cabinet rising perpendicularly from the upper section, the upper hinged section including integral glass panelled ends, top and one side with the lower edge of the side hinged to the base section, and another side of the upper section hinged to the base section with the free edge of the last named side adapted to be secured to the adjacent edge of the top of the upper section and an exhaust stack for vapors and gases carried by the top.

9. In a vapor bath cabinet, a base section and an upper section hinged thereto, heater units in the base sections, means for forcing a current of air over the heater units and into the upper section, one of the heater units being in the form of a vapor pan, a reticulated plate separating the lower and upper sections and disposed above the heater units, exhaust means for vapors and gases in the cabinet rising perpendicularly from the upper section, the upper hinged section including integral glass panelled ends, top and one side with the lower edge of the side hinged to the base section, and another side of the upper section hinged to the base section with the free edge of the last named side adapted to be secured to the adjacent edge of the top of the upper section and an exhaust stack for vapors and gases carried by the top.

In testimony whereof I affix my signature.

MIHALY NOGRADI.