H. C. MARRINAN & J. GORMAN.

ELECTRIC BATH CABINET.

APPLICATION FILED OCT. 5, 1914.

1,130,916. Patented Mar. 9, 1915.

Fig. 1.

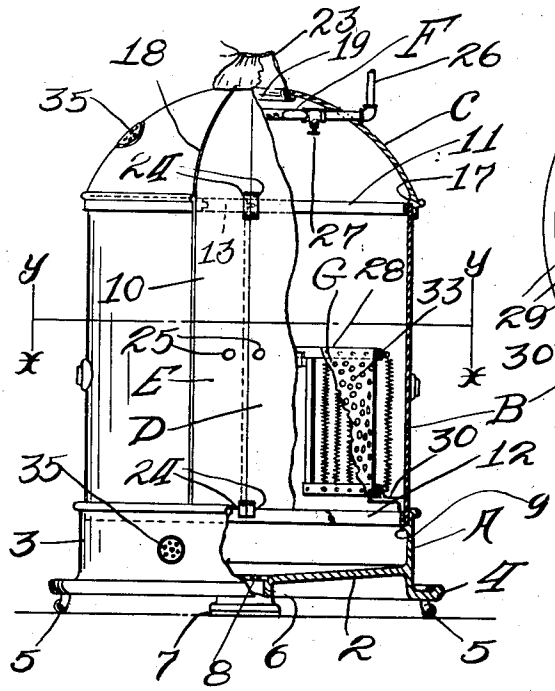


Fig. 2.

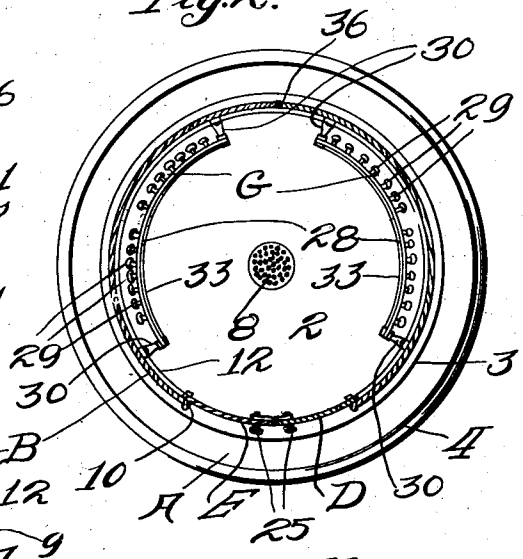


Fig. 3.

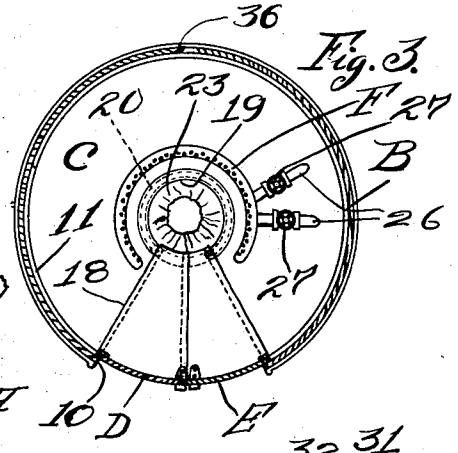


Fig. 4.

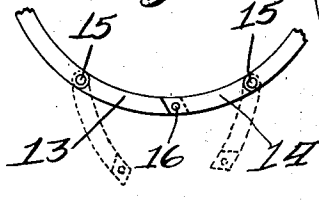


Fig. 5.

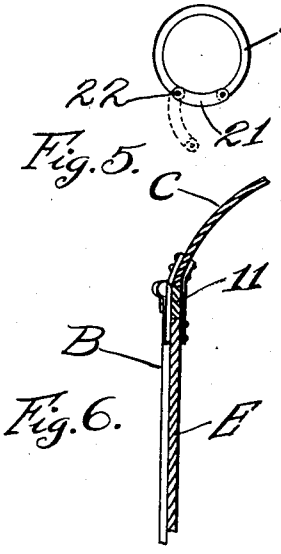


Fig. 6.

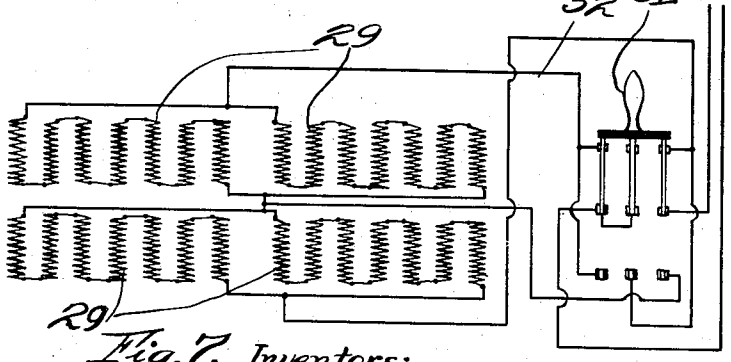


Fig. 7.

Witnesses:

R. W. Holmes.

Stella L. Waschenberger

Inventors:

Honora C. Marrinan and John Gorman.

by: F. S. Bradbury

Attorney.

UNITED STATES PATENT OFFICE.

HONORA C. MARRINAN AND JOHN GORMAN, OF ST. PAUL, MINNESOTA.

ELECTRIC BATH-CABINET.

1,130,916. Specification of Letters Patent. Patented Mar. 9, 1915.

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To all whom it may concern:

Be it known that we, HONORA C. MARRINAN and JOHN GORMAN, citizens of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented a new and useful Improvement in Electric Bath-Cabinets, of which the following is a specification.

Our invention relates to an electric bath cabinet, which is adapted as a receptacle to hold and treat the body of a person in an effective manner.

By the use of our invention a vapor is produced and the temperature of the atmosphere in the cabinet raised to a degree which is most effective and desirable for treating various ailments of the body.

The device is sanitary, and its parts admit of ease in operation.

By the use of our invention the body is surrounded by a heater, which quickly raises the temperature in the cabinet after the latter has been closed.

In the accompanying drawing forming part of this specification, Figure 1 is a side elevation partly broken away and in section of our invention; Fig. 2 is a section on the line X—X, Fig. 1; Fig. 3 is a section on the line Y—Y, Fig. 1; Fig. 4 is a detail of the supporting ring; Fig. 5 is a plan of the neck ring; Fig. 6 is a detail in section illustrating the construction of the door used in the cabinet, and Fig. 7 is a diagram of the electric circuit, which is employed for heating the atmosphere in the cabinet.

The cabinet is constructed with superimposed sections, made out of metal or other suitable material, A indicating the base or bottom section, B the body or middle section, and C the dome or top section. The bottom section is in the form of a tray having an inwardly and downwardly sloping floor 2, cylindrical side or guard 3, and an outwardly projecting lower flange 4, the latter carrying suitable casters such as 5, to enable the device as a whole to be readily moved from place to place when desired. At the lower central portion of the floor there is provided a downwardly extending duct 6, which is adapted to register with a sewer or other drain connection, such as 7 for conducting the waste water which is used for bathing purposes away from the device. The opening in this duct is provided with a grating such as 8. The upper portion of the side is formed with an inwardly projecting circular shoulder 9, upon which the cylindrical body B is placed and held securely. This body is formed with a vertical doorway 10, and a pair of circular guides or tracks 11 and 12, which are secured respectively to the upper and lower edges of the body, said upper track being formed with a pair of segments 13 and 14, which are hinged at 15, to swing open or closed. When closed these segments interlock, their adjacent ends being secured in locked position by a removable pin or bolt 16. The doors while of sliding type can be of any well known construction desired.

The top section C is dome shaped, it being removably placed over the cylindrical wall. The lower portion of the top section is formed with an inner shoulder 17, which rests on the upper edge of the cylindrical wall of the body. The wall of the top section is provided with a side opening 18 in extension from the passage-way 10, and the top of the dome has a circular opening 19, the edge of which is provided with a roll or ring member 20, having a segment 21 hinged at 22, said segment being positioned across the passage 18, so as to clear the passage when the segment is swung into open position. By this construction a doorway leading from the base to the top of the cabinet is provided, through which a person may enter or leave the cabinet when desired. When a person enters the cabinet, the head may be left projecting above the dome through the opening 19, so that the head is not inclosed by the cabinet. A flexible neck piece such as 23 is secured to the ring 20, and may be gathered and tied around the neck of the person who is being treated to prevent steam or vapor escaping from the cabinet. Suitable sliding doors such as D and E, extending from the lower edge of the body section B to the top of the passage through the dome section C are provided,

said doors being mounted to slide apart in the cabinet, and when closed together assist in forming a tight chamber within the cabinet. These doors are slidably mounted by suitable cleats 24 upon the supporting or guide members 11 and 12, handle knobs such as 25 being secured to each door section, whereby the doors can be easily moved apart or closed. After the sections have been moved into open position the hinged sections 13 and 14 of the guide member 11 and section 21 of the ring member 20 can be swung open to permit a person entering or departing from the cabinet. To close the cabinet, said sections are first swung into closed position, and the doors then moved together.

Placed in the top of the cabinet is a spray or shower element F in the form of a yoke made of pipe suitably perforated to spray water down over the body, said yoke partly encircling the neck of the bather and being connected to suitable water supply pipes 26, having valves 27 within easy reach of the operator in the cabinet to control the operation of the spraying device.

Located within the cabinet is an electric heating element G in the form of suitable frame work such as 28, made in sections of electric resistance coils 29, which are mounted upon said frame work and electrically insulated therefrom in any well known approved manner. This heating element constructed in sections is removably secured around the inner surface of the body portion of the cabinet upon suitable brackets such as 30. Sections of resistance coils may be connected, so that only a portion or all may be operated at a time, whereby a hot or medium temperature can be maintained within the cabinet if desired.

In the diagram illustrated in Fig. 7 a switch such as 31 is illustrated connected by suitable circuit conductors 32 to the various coils, so that by moving the switch into closed position in one direction, the coils are connected so as to develop a medium temperature and by moving the switch in another direction, the coils develop a high temperature.. Suitable guards in the form of perforated plates 33 are secured to the frame work 28 in front of the coils to prevent the body from coming into contact therewith, when the device is in operation.

Suitable ventilators 35, which can be regulated are placed in the walls of the bottom and top sections to produce a circulation of fresh heated air through the cabinet and the removal of vitiated air. The body B can be made of single piece construction or in sections which may be held together by an overlapping joint such as 36.

In operation the person to be treated enters the cabinet, closes the doors and secures the neck piece 23 tightly around the neck leaving the head projecting above the cabinet. The person can remain standing or be seated upon a stool or other support within the cabinet. The application of water and the temperature can then be regulated by the valves 27. When heat is applied the heating element is operated by an attendant outside of the cabinet, who manipulates the switch. After use as described a vapor is produced through the use of the heater, which is beneficial to the body. When in use the tray drains water away after it has been used. It is not necessary to use the cabinet in direct connection with the sewer, it being obvious that the drain outlet may be used to conduct water away to any desired locality.

In accordance with the patent statutes we have described the principles of operation of our invention, together with the apparatus which we now consider to represent the best embodiment thereof, but we desire to have it understood that the construction shown is only illustrative, and that the invention can be carried out by other means and applied to uses other than those above set forth within the scope of the following claims.

Having described our invention, what we claim as new and desire to protect by Letters Patent is:—

1. A combination bath and heating cabinet, comprising, in combination, a series of superimposed sections, the lower section being formed with an inwardly inclined floor, a drain outlet in said floor and an upwardly projecting side formed with an inwardly projecting shoulder, the intermediate section consisting of a casing removably mounted upon said shoulder and the top section being in the form of a dome mounted upon said intermediate section and formed with a neck opening near its top, said intermediate and top sections being formed with a door-way extending upwardly and connected with said neck opening, a door in said door-way, said sections being formed with ventilating openings near the top and bottom whereby air may be circulated through the chamber formed by said sections and a heating element removably mounted within said chamber.

2. A combination bath and heating cabinet, comprising, in combination, a plurality of superimposed sections, the lower section consisting of a tray having a drain outlet in its floor, an upwardly projecting side formed with an inwardly projecting shoulder, an intermediate section in the form of a casing resting upon said shoulder and a top section in the form of a dome resting upon said intermediate section and having a neck opening near its top portion, said intermediate and top sections being formed with a doorway, a door mounted in said door-way,

a heating element removably mounted within the chamber formed by said sections, a guard in front of said heating element and a spray element leading into the top of said chamber and adapted to be connected with a source of water supply for the purposes specified.

In testimony whereof, we have signed our names to this specification in the presence of two subscribing witnesses.

HONORA C. MARRINAN.
JOHN GORMAN.

Witnesses:
STELLA L. WASCHENBERGEN,
F. G. BRADBURY.