

Oct. 11, 1938.

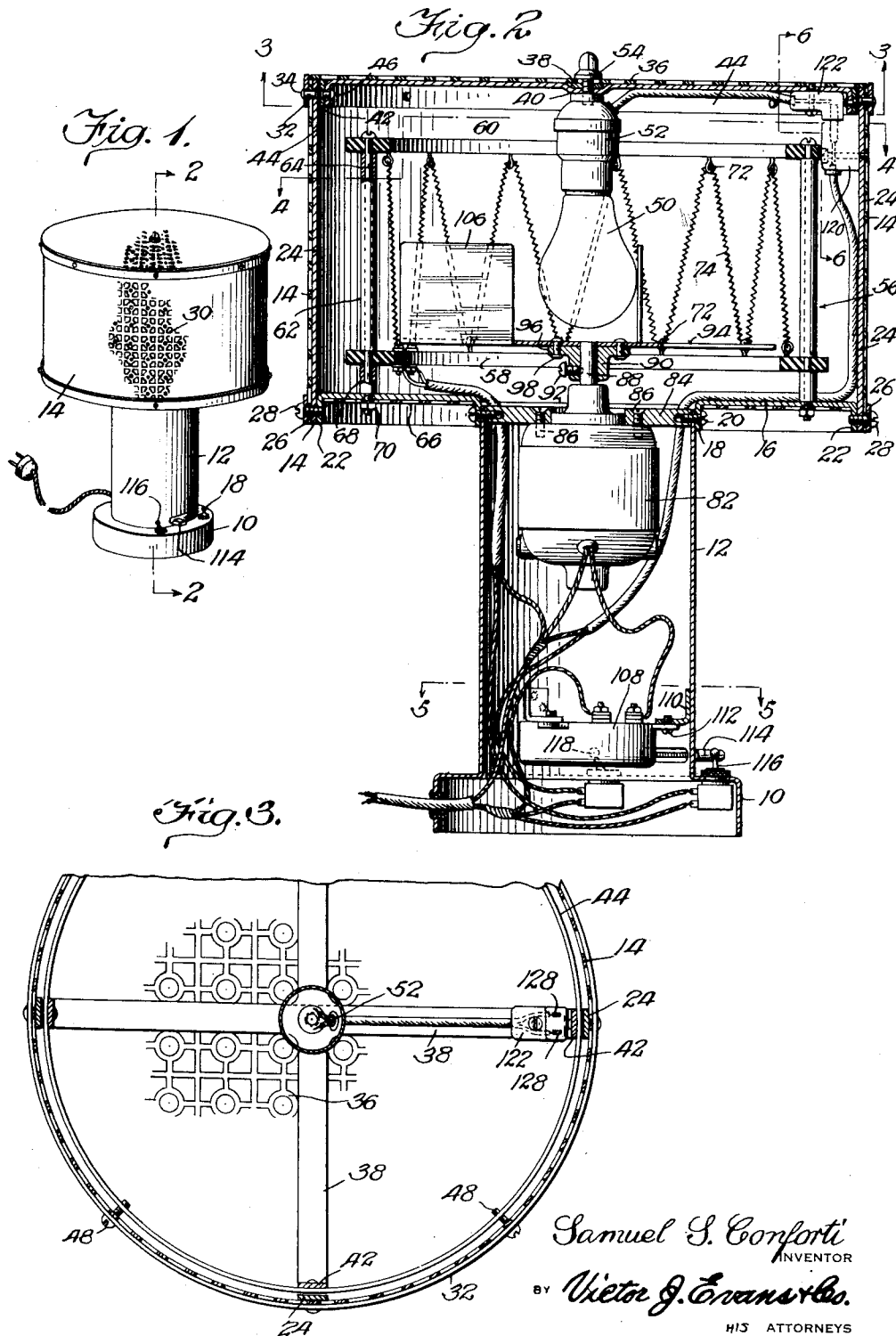
S. S. CONFORTI

2,133,188

COMBINATION LAMP, HEATER, AND FAN

Filed Aug. 18, 1937

2 Sheets-Sheet 1



Oct. 11, 1938.

S. S. CONFORTI

2,133,188

COMBINATION LAMP, HEATER, AND FAN

Filed Aug. 18, 1937

2 Sheets-Sheet 2

Fig. 4.

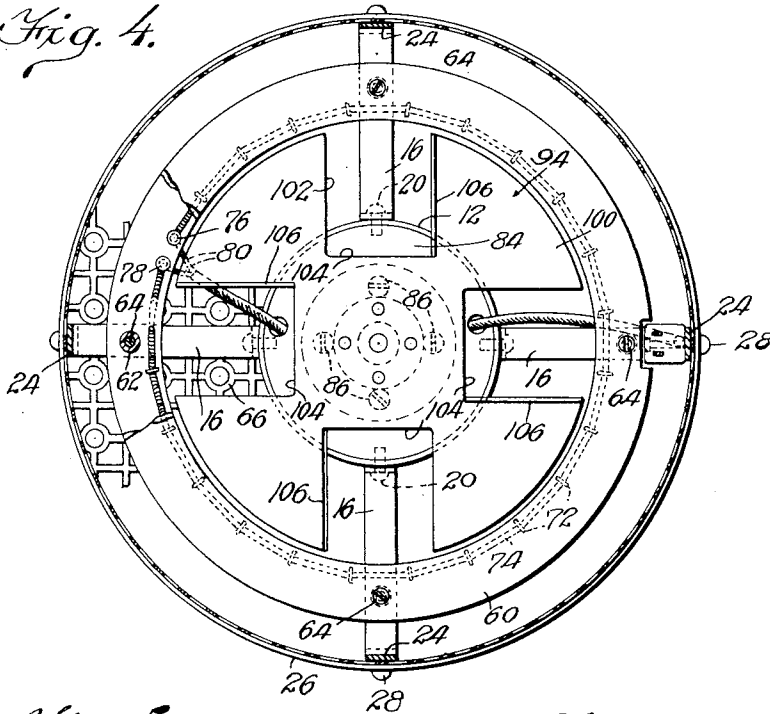


Fig. 5.

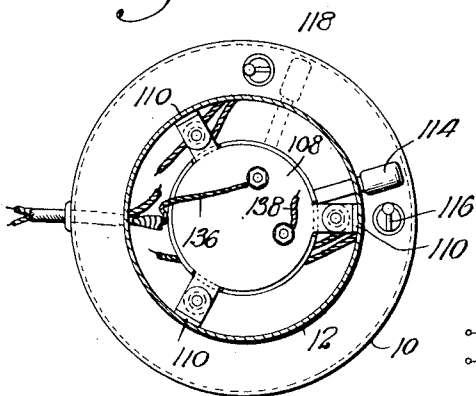


Fig. 6.

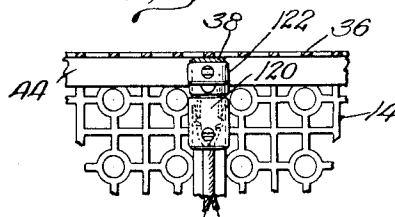
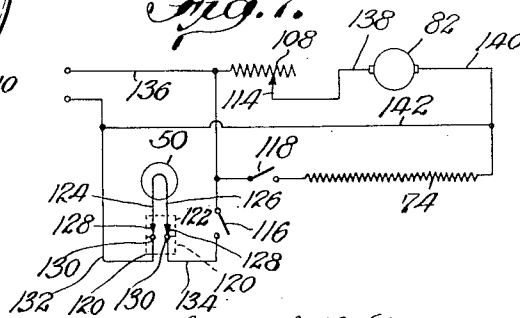


Fig. 7.



Samuel S. Conforti
INVENTOR

INVENTOR

BY *Victor J. Evans & Co.*

HIS ATTORNEYS

UNITED STATES PATENT OFFICE

2,133,188

COMBINATION LAMP, HEATER, AND FAN

Samuel Salvatore Conforti, Kenosha, Wis., assignor of one-half to Sante Di Antoni, Kenosha, Wis.

Application August 18, 1937, Serial No. 159,783

3 Claims. (Cl. 219—39)

My invention relates to lamps and includes among its objects and advantages the provision of a combination lamp, heater and air circulating device.

5 In the accompanying drawings:

Fig. 1 is perspective view of the lamp embodying my invention;

Fig. 2 is a sectional view along the line 2—2 of Fig. 1;

10 Fig. 3 is a sectional view along the line 3—3 of Fig. 2;

Fig. 4 is a sectional view along the line 4—4 of Fig. 2;

15 Fig. 5 is a sectional view along the line 5—5 of Fig. 2;

Fig. 6 is a sectional view along the line 6—6 of Fig. 2; and

Fig. 7 is a diagrammatic view of the electric circuit.

20 In the embodiment selected to illustrate my invention, I make use of a base 10 which supports a column 12, which, in turn, carries the lamp shade 14. Column 12 comprises a metallic tube enlarged at one end to provide the base 10.

25 To the upper end of the column I secure four arms 16 bent to provide reaches 18 attached to the column by screws 20. The outer ends of the arms 16 are bent to provide reaches 22 secured to reinforcing bars 24 fitting adjacent the inner face of the shade 14. A band 26 encircles the lower margin of the shade 14, and screws 28 pass through the band 26, the shade 14, the bars 24 and have threaded relation with the reaches 22 for tying all the parts into a unitary structure.

35 Shade 14 comprises sheet metal perforated to provide an ornamental pattern, as indicated at 30. About the upper margin of the outer face of the shade 14, I mount a band 32 which is attached to the shade by rivets 34 passing through the band, the shade and the arms 24. A top sheet 36 rests on the upper end of the shade 14, which sheet comprises sheet metal perforated in the same manner as the shade 14.

40 In Fig. 2, the band 32 projects above the upper end of the shade 14 a distance equal to the thickness of the cover sheet 36 so as to cover its edge. Four arms 38 are positioned adjacent the inner face of the cover sheet 36 and may be secured thereto by spot welding. One of the arms is offset at 40 to provide accommodation for the other arm. The outer ends of the arms are bent to provide depending reaches 42 which carry a band 44 secured thereto by rivets 46.

55 Four screws 48 pass through the band 44 and

the shade 14 and have threaded relation with the band 44 for fixedly connecting the cover sheet 36 with the shade 14.

Within the shade 14, I mount an electric lamp 50, which lamp is connected with a conventional socket 52 depending from the cover structure of the shade. A screw 54 passes through the crossed arms 38 and has threaded relation with the socket 52 for supporting the same. Shade 14 is positioned concentrically of the column 12, and the light 50 is positioned in alignment with the axis of the column.

Upon the arms 16 I mount a heating unit 56 which comprises two spaced rings 58 and 60 supported in spaced relation by tubular members 62. Rings 58 and 60 and the tubular members 62 are of insulating material. The rings are bored for the reception of bolts 64 which extend through the tubular members 62 and are of sufficient length to extend through the arms 16 and the bottom 66 which is of perforated sheet metal of the same type as the cover sheet 36. Tubular spacers 68 are mounted on the bolt 64 between the ring 58 and the arms 16, and the bolts are provided with nuts 70 which draw the parts into a rigid assembly when tightened. A plurality of screw eyes 72 is attached to the rings 58 and 60, and a wire heating element 74 is threaded through the eyes 72 and connected with terminal screws 76 and 78, which, in turn, are electrically connected with wires 80.

Within the column 12 I mount an electric motor 82, to the upper end of which I secure a ring 84 fixedly connected with the field frame of the motor by screws 86. The peripheral face of the ring 84 fits snugly within the column 12 and is anchored thereto by the screws 20 which have threaded relation with the ring. The shaft 88 of the motor 82 is aligned with the axis of the column 12 and is provided with a collar 90 secured to the shaft by a set screw 92. A fan 94 is mounted on the collar 90 and is fixedly connected with its flange 96 by rivets 98.

Referring to Fig. 4, the fan 94 comprises a circular, metallic sheet 100 severed along lines 102 and 104 and the material bent upwardly to provide blades 106 positioned at right angles to the sheet 100. Blades 106 rotate about the lamp 50.

Inside the column 12 I mount a rheostat 108 which is attached to brackets 110 by screws 112. Brackets 110 may be welded to the column 12. The column is provided with a slot for the reception of the rheostat lever 114. Base 10 carries two switches 116 and 118 which are elec-

trically connected with the lamp 50 and the heating element 74, respectively. To one of the arms 24 I mount a plug 120, and a similar plug 122 is attached to one of the arms 38. In Fig. 7, I illustrate the wiring circuit. The lamp 50 is electrically connected with wires 124 and 126, which, in turn, are connected with prongs 128 associated with the plug 122. Plug 120 is provided with contacts 130, which in turn, are connected with wires 132 and 134. Prongs 128 have electrical connection with the contacts 130. Such plugs are well known in the art and need not be described in further detail.

Wire 132 and the wire 136 may be connected with a source of current. Wire 134 is connected with wire 136 and includes the switch 116. Wire 136 is connected with the rheostat 108, which, in turn, is connected with the motor 82 by a wire 138. A wire 140 is connected with the motor 82 and the heating element 74, which, in turn, is connected with the wire 134 but is provided with the switch 118. A wire 142 connects the wires 132 and 140.

From the foregoing description of the various parts of the device, the operation thereof will be readily understood. By closing the switch 116, the lamp 50 will be illuminated, but if the switch 118 is closed, the heating element 74 will be energized. The motor is controlled by manipulating the switch lever 114. Operation of the motor turns the fan 94, which, in turn, circulates air heated by the element 74. The opened nature of the shade 14 permits free circulation of air therethrough, and the perforations in the shade are of an ornamental nature so as to enhance the ornamental appearance of the lamp. The fan 94 may be operated independently of the light or heating circuit, which is also true of the lamp circuit. The fan 94 is so shaped as to provide an effective circulation of air, but the blades 106 are so arranged as to rotate about the lamp 50 thus providing a compact arrangement of the parts. The heating element is completely enclosed within a perforated shell, which shell comprises a lamp shade of ornamental properties.

The cover sheet 36 may be lifted by removing the screws 48 to permit access to the interior of the shade. The separable plugs 120 and 122 permit the cover shade to be completely removed from the shade.

Without further elaboration, the foregoing will so fully explain my invention that others may, by applying current knowledge, readily adapt the same for use under various conditions of service.

I claim:

1. A device of the type described comprising a base and a hollow column, a perforated shade mounted on said column, a frame mounted inside the shade, a heating element carried by said frame, a motor mounted inside the column, a fan located inside the heating element and operatively connected with said motor, said fan rotating about the axis of the column and including vertical blades, and an electric lamp depending from the top of the shade and positioned between the vertical blades.

2. A device of the type described comprising a base and a hollow column, a perforated shade mounted on said column, a frame mounted inside the shade, a heating element carried by said frame, a motor mounted inside the column, a fan located inside the heating element and operatively connected with said motor, said fan rotating about the axis of the column and including vertical blades, and an electric lamp depending from the top of the shade and positioned between the vertical blades, said shade including perforated bottom and top covers.

3. A device of the type described comprising a hollow base structure in the nature of a column, a perforated shade, means for mounting the shade on the column, a frame located inside the shade and mounted on said means, a heating element carried by said frame, a motor mounted inside the column, a fan located inside the heating element and operatively connected with said fan, and an electric lamp carried by the shade and located inside the fan.

SAMUEL SALVATORE CONFORTI.