Sept. 30, 1930. H. C. BIETTE 1,776,991

VENTILATING DOME

Filed March 6, 1929

Fig. 1.

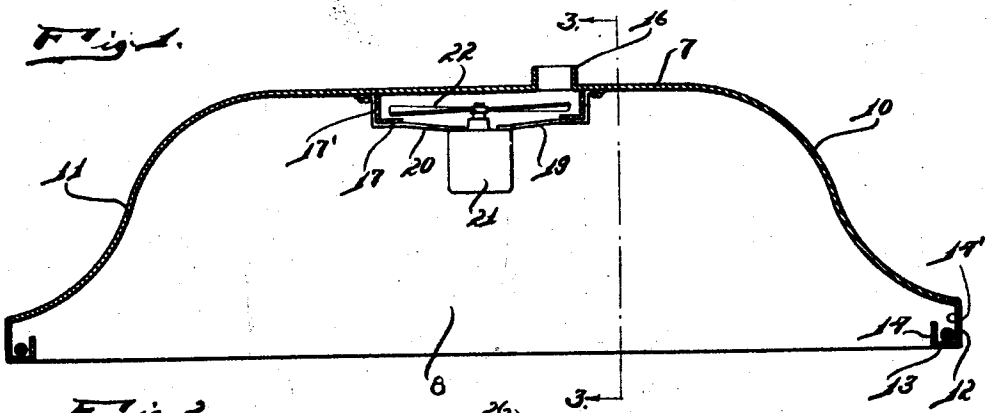


Fig. 2.

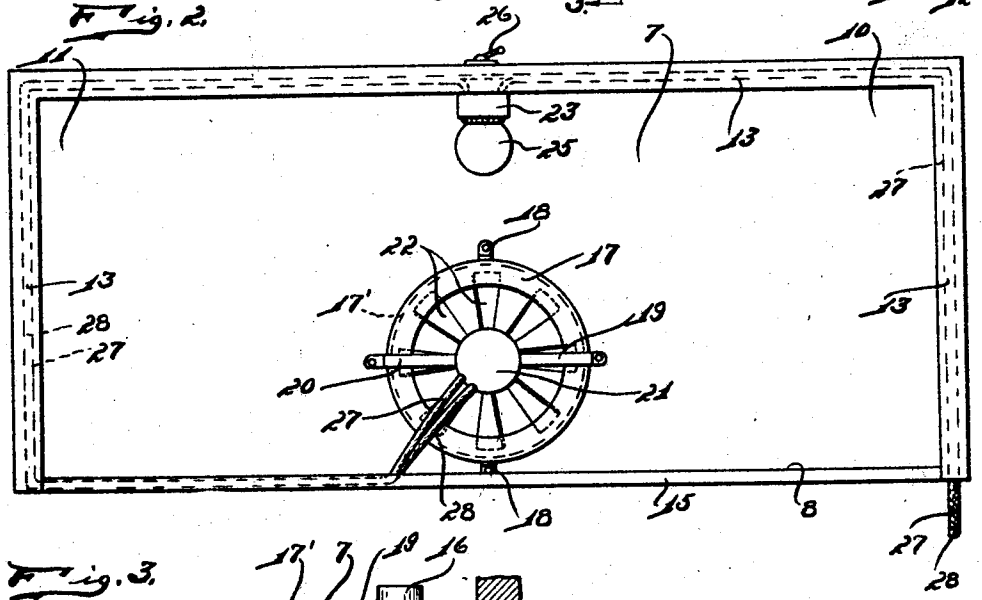


Fig. 3.

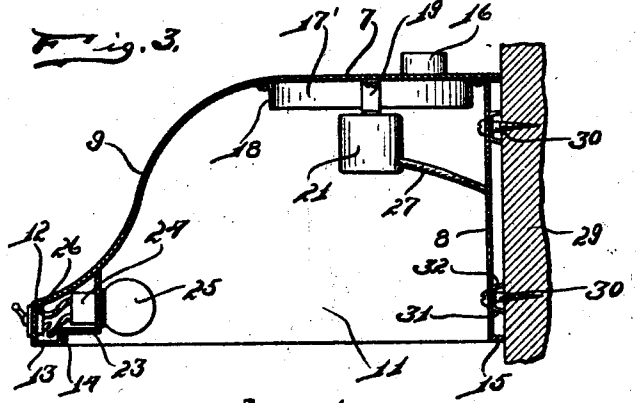
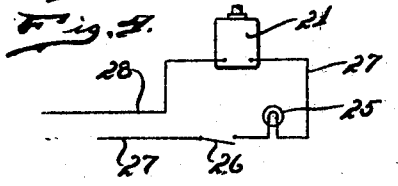


Fig. 4.



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UNITED STATES PATENT OFFICE

HENRY C. BIETTE, OF DETROIT, MICHIGAN

VENTILATING DOME

Application filed March 6, 1929. Serial No. 344,652.

My invention relates to a new and useful improvement in a ventilating dome adapted for use on stoves, particularly stoves which are used for cooking purposes.

It is an object of the present invention to provide a ventilating dome of this class whereby vapors, smoke and odors arising from the stove or from articles being cooked thereon or therein may be quickly conveyed away.

It is another object of the invention to provide a ventilating dome of this class which will be simple in structure, economical of manufacture and highly efficient in use.

Another object of the invention is the provision of a ventilating dome of this class having means therein for effecting a forced draft.

Another object of the invention is the provision of an electrically driven motor for effecting a forced draft and provided with control means for controlling the operation of said motor.

Other objects will appear hereinafter.

The invention consists in the combination and arrangement of parts hereinafter described and claimed.

The invention will be best understood by a reference to the accompanying drawing which forms a part of this specification and in which,

Fig. 1 is a central longitudinal vertical sectional view of the invention.

Fig. 2 is a bottom plan view of the invention.

Fig. 3 is a sectional view taken on line 3—3 of Fig. 1.

Fig. 4 is a diagrammatical view illustrating the wiring in the invention.

The dome comprises a top 7 having a rear wall 8. The top 7 is formed to provide an inclined front wall 8 and inclined end walls 10 and 11. The end walls and the front wall are formed with similar edge flanges. These walls are provided with the downwardly directed angularly turned portion 12 which is horizontally turned as at 13 and again vertically turned as at 14 to provide the channel 14′. A flange 15 is also formed on the rear wall 8. Projecting upwardly from the top wall 7 and formed preferably integral therewith is a neck 16 to provide the outlet opening of the ventilating dome. An annular framing member 17′ is provided with a horizontally extended flange 17 and secured to the top wall 7 by the outwardly projecting lugs 18 which are bolted or otherwise suitably secured to the top 7. Retaining straps 19 and 20 are secured to the under surface of the top 7 and serve as additional supports for the annular member 17′. The inner ends of these strips 19 and 20 are secured to and serve to support an electric motor 21 which is adapted to drive the fan 22, this fan being positioned preferably concentrically within the annular member 17′. An L-shaped supporting bracket 23 is mounted on the forward wall of the dome and serves to support the electric socket 24 in which is positioned the light bulb 25, a suitable switch 26 serving to control the flow of current to the light bulb 25. Wires 27 and 28 serve to conduct electricity to the motor 21, the switch 26 being interposed in the wire 27. As shown in the drawing these wires lie in the channel 14′ so that they are practically concealed from view and no marring of the appearance of the dome is effected thereby.

The rear wall 8 is secured to a supporting surface 29 by screws 30 projected through the rear wall and through the spacing chairs which are formed U-shaped and comprise the legs 31 and 32 which engage the supporting surface 29, the bight of these U-shaped chairs resting against the face of the rear wall 8 so that a resilient and yieldable supporting of the dome is thereby effected.

When in use a suitable conduit is mounted on the neck 16 and connected to a flue so that the vapors may expel from the room in which the stove may be positioned. Upon a closing of the switch 26, the light bulb 25 will be lighted, thus affording desired illumination over the stove and at the same time setting into operation the fan 22 which will set up the forced draft to draw the vapors from around and above the stove into the dome and expel them outwardly through the conduit or flue connected to the neck 16. By having the annular member 17 positioned concentrically about the fan 22, an increasing

in efficiency is provided and escape of the vapors downwardly after being brought into the fan and into contact with the inner surface of the top wall 7 is retarded and practically prevented.

With a ventilating dome arranged and constructed as described, a durable and neatly appearing structure is provided and one which will serve to maintain the room in which food is being cooked free from all undesirable odors of the cooking food.

While I have illustrated and described the preferred form of my invention, I do not wish to limit myself to the precise details of structure shown but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A device of the class described comprising: a ventilating dome having an opening formed therein; a framing member mounted on said dome and surrounding said opening; an inwardly directed flange on one end of said framing member and spaced from said dome; a fan embraced by said framing member and rotatable therein for effecting a forced draft through said opening.

2. A device of the class described comprising: a ventilating dome having an opening formed therein; an annular member mounted on said dome and surrounding said opening; an inwardly directed flange on one end of said annular member and spaced from said dome; a fan embraced by said annular member and rotatable therein for effecting a forced draft through said opening; a motor for driving said fan; and brackets engaging the periphery of said annular member and secured to said dome and projecting radially inwardly of said annular member for supporting said motor.

In testimony whereof I have signed the foregoing specification.

HENRY C. BIETTE.