

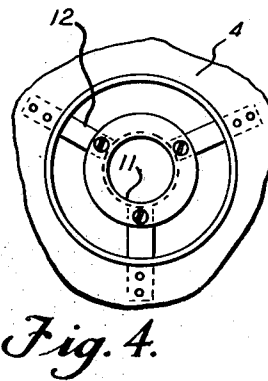
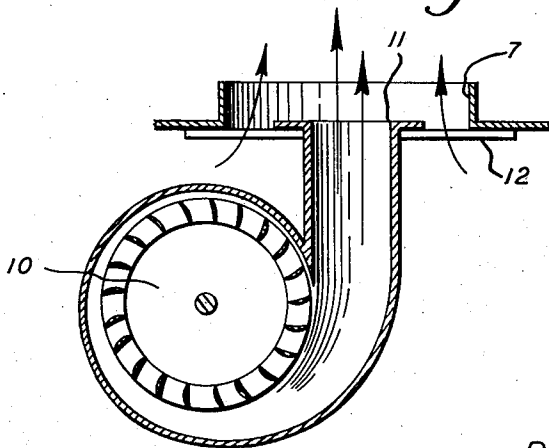
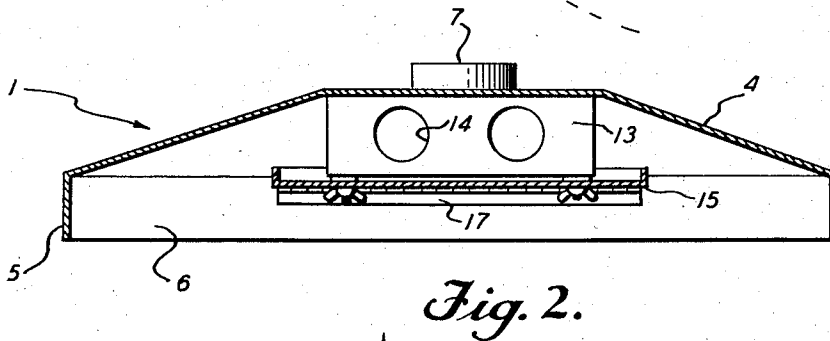
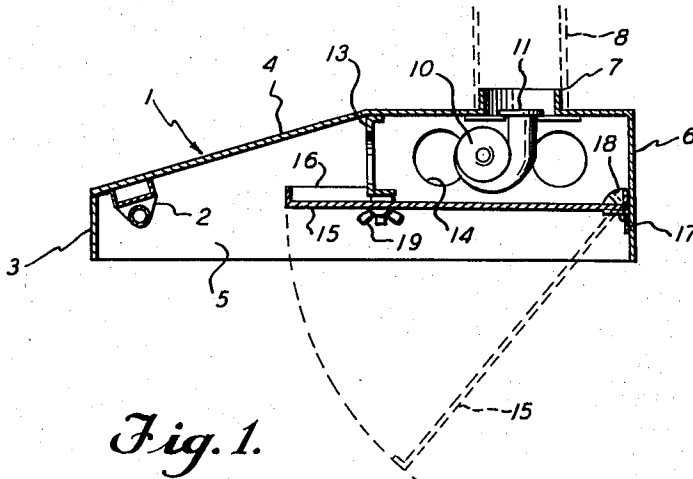
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2,528,844

KITCHEN VENTILATOR

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KITCHEN VENTILATOR

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1 Claim. (Cl. 98—115)

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This invention relates to ventilators and has reference to a hood for venting grease laden vapors, smoke, and heat from a kitchen range or stove.

An object of the invention is to provide a ventilator of the referred to class which may be operated without the use of a fan when desired, as in the wintertime.

Another object of the invention, and in addition to the foregoing object, is the provision of an arrangement and construction whereby a large portion of the grease laden vapors bypass the fan or blower and thereby greatly eliminating the deposits of grease on the latter.

A further object of the invention is to provide, in combination with a vented hood of the described class having a fan or motor generally protected from the accumulation of grease, a grease pan which is easily accessible for cleaning the same and for adjusting or cleaning the motor and fan, when desired.

These and other objects of the invention will become apparent from the following description of the accompanying drawing, wherein:

Figure 1 is a lateral vertical sectional view of an exemplary form of the invention and particularly showing the relation between the hood, the fan or blower outlet, and the grease collecting drip pan.

Figure 2 is a vertical sectional view of the ventilator taken at a right angle with respect to Figure 1.

Figure 3 is an enlarged vertical sectional view of the fan or blower and the outlet arrangement for propelling part of the grease laden vapors outwardly of the hood without passing through the fan or blower.

Figure 4 is a partial plan view of Figure 3 showing the suspension of the fan outlet within the hood outlet.

The form of the invention illustrated includes a hood 1 which is supported over a kitchen range or stove (not shown), and may be provided with a fluorescent light 2 within its forward skirt 3. In addition to the forward skirt, the hood 1 includes a top 4, side skirts 5 and a back 6. The top 4 is provided with a flanged outlet 7 adapted to fit a vent pipe 8.

Within the hood 1 and beneath the outlet 7, there is an electric blower type fan 10 having its outlet 11 concentrically disposed within the hood outlet and supported by brackets 12, as particularly shown in Figure 4.

The blower 10 is enclosed on three sides by partitions 13 and the back edges 6 of the hood 1. As shown in Figures 1 and 2, the partitions 13 are provided with openings 14 to allow air within the hood 1 to reach the hood outlet 7.

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Beneath the partitions 13 and hinged to the hood back 6 there is a drip pan 15 having upwardly turned flanges 16 around all of its sides. By securing the pan supporting hinge 17 to the bottom of the said pan and to the hood wall 6, the foregoing referred to pan flange 16 may be made continuous. However, arcuate notches 18 are formed in the side partitions 13 at their lower edges and adjacent the hood back 6.

As shown in Figures 1 and 2, the pan 15 is larger than the arrangement of the partitions 13, thus providing means for catching accumulated grease which may drip from the said partitions. Wing nuts and bolts 19 are provided in the lower edge of the forward partition 13 for supporting the drip pan 15, yet providing for hinged movement for the latter so as to make the same accessible for cleaning and for reaching the blower 10 when desired.

The foregoing description is not restrictive but may be varied in many ways within the scope of the appended claim.

What is claimed is:

A ventilator hood of the described class and including a substantially horizontal top, a flanged ring positioned within said top and forming an outlet therefore, a blower including a tubular discharge supported beneath said top and having said discharge end positioned in, and spaced from the inner periphery of said ring, partitions having holes therethrough secured to the lower surface of said hood and positioned around said blower, and a drip pan larger than the horizontal area defined by said partitions and detachably secured to the lower edges of the latter.

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