Jan. 4, 1938. G. M. TAYLOR 2,104,212

HEATING STOVE

Filed April 13, 1936

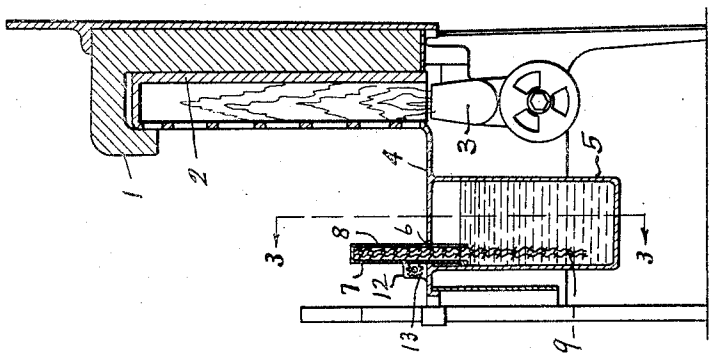


Fig. 2.

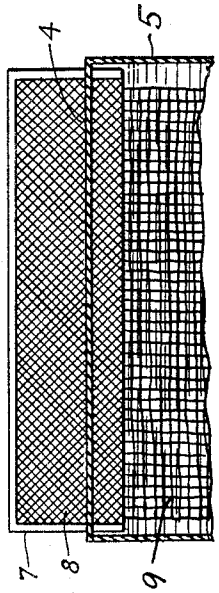


Fig. 3

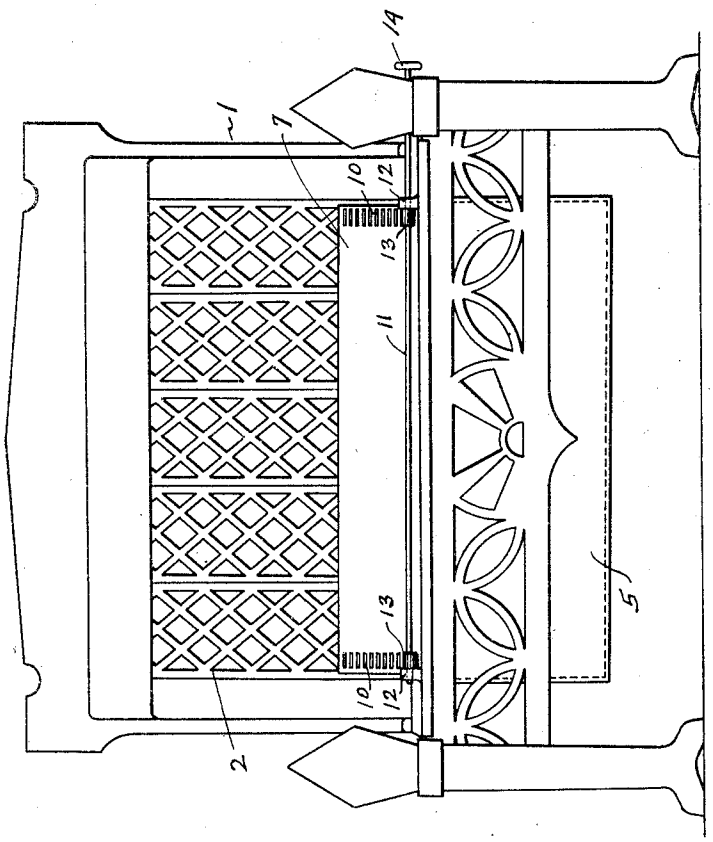


Fig. 1

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HEATING STOVE

Guy M. Taylor, Houston, Tex.

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2 Claims. (Cl. 299—20)

This invention relates to a heating stove and has more particular relation to that type of stove adapted to use gas or similar fuel.

An object of the invention is to provide a heater of the character described, equipped with means for supplying the air in the room where the heater is used with the required amount of moisture.

Another object of the invention is to provide a heating stove of the character described having a water reservoir with a suitable opening for the escape of vapor therefrom whereby the surrounding air will be supplied with the required moisture.

It is another object to provide means whereby the quantity of vapor given off from the water reservoir may be readily regulated.

With the above and other objects in view the invention has particular relation to certain novel features of construction, operation and arrangement of parts, an example of which is given in this specification and illustrated in the accompanying drawing, wherein:—

Figure 1 shows a front elevation of the stove.

Figure 2 shows a vertical sectional view, and

Figure 3 shows a fragmentary cross sectional view, taken on the line 3—3 of Figure 2.

Referring now more particularly to the drawing wherein like numerals of reference designate similar parts in each of the figures, the numeral 1 designates a heating stove as a whole having the usual mantel 2 and the gas burner 3 of any conventional construction. The stove has the usual hearth 4 and depending from this hearth there is a water reservoir 5. The hearth has a transverse opening 6 therethrough extending approximately from end to end of the reservoir 5 and through which the vertically movable wick holder 7 is snugly fitted. The rear wall of the wick holder 7 is formed of wire mesh or other foraminated material and said holder is open at the bottom, but otherwise enclosed at all sides and at the top. There is a wick 9 formed of suitable fabric and whose upper margin is firmly clamped by the holder 7 but whose lower margin is free and extends down into the reservoir 5. This wick extends transversely from end to end of the holder 7.

The reservoir 5 will be kept filled or partly filled with water and that portion of the wick within the holder 5 will be maintained saturated by capillary attraction and will be exposed, through the rear wall 8, to the heat given off from the burner flame whereby the water will be evaporated from the exposed portion of the wick and will be diffused throughout the atmosphere in the room. The area of the wick so exposed, and consequently the amount of vapor given off, may be regulated by adjusting the wick holder up or down. For making this adjustment the front wall of the wick holder is provided with the vertical rack faces 10, 10 and there is a transverse shaft 11 in front of the wick holder mounted to rotate in the bearings 12, 12 on the stove hearth and this shaft has the pinions 13, 13 fixed thereon and in mesh with the rack faces 10. One end of the shaft 11 is extended and has a hand grip 14 fixed thereon whereby the shaft 11 may be turned and the wick holder 7 adjusted up and down as required and with the result stated.

The drawing and description disclose what is now considered to be a preferred form of the invention by way of illustration only while the broad principle of the invention will be defined by the appended claims.

What I claim is:

1. In a humidifier a water reservoir, an opening in the top of said reservoir, a wick holder adapted to operate through said opening, a wick in said holder, an open work frame adapted to hold said wick in place, the free end of said wick extending down into said water reservoir, rack faces on said wick holder, a rod extending lengthwise of said holder having gear teeth adapted to mesh with said rack faces, means for turning said rod to move said wick holder.

2. A humidifier for use on stoves comprising a water reservoir having an opening in the top thereof, a wick holder adapted to work through said opening, a wick in the holder, one side of the holder being formed of foraminated material to expose that portion of the wick in the holder, the free end of the wick extending down into the water of the reservoir, an actuating shaft arranged alongside the holder, said shaft and holder having intermeshing means whereby the holder and wick may be adjusted vertically upon the turning movement of the shaft, and means to turn the shaft to move said wick and holder.

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