July 29, 1958 E. R. GAUERKE 2,844,825

BATHTUB HEATING ASSEMBLIES

Filed May 9, 1957

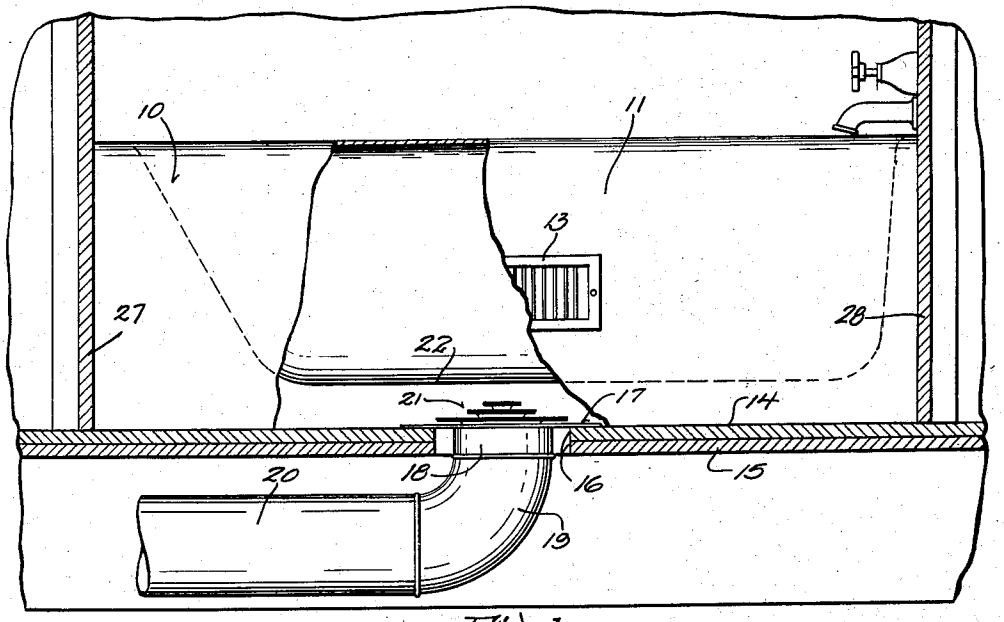



Fig. 1

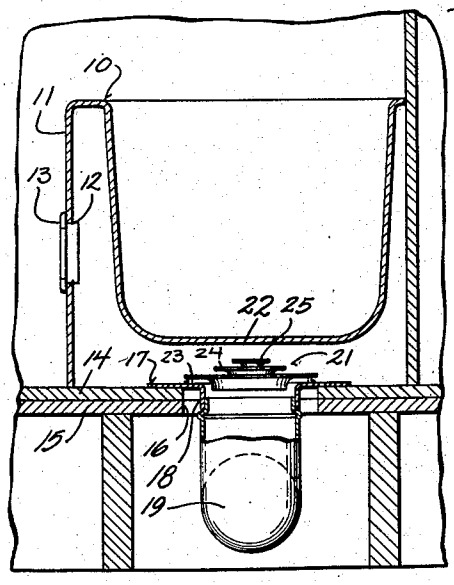



Fig. 2

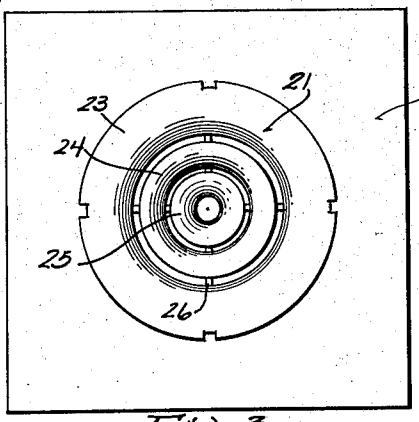



Fig. 3

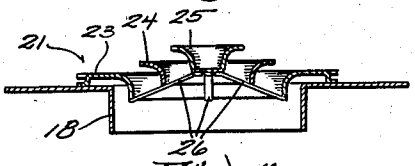



Fig. 4

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# BATHTUB HEATING ASSEMBLIES

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Application May 9, 1957, Serial No. 658,187

2 Claims. (Cl. 4—179)

This invention relates to improvements in bathtub heating assemblies and is an improvement over my patent application relating to the same subject, bearing the Serial Number 513,478.

An object of the invention is to provide a device of the type which is equipped with a source of diffused heat to equalize the heating of the lower portion of the bathtub.

Another object of the invention is to provide a device of the type utilizing hot air in connection with heating of a bathtub and the bathroom.

Other and further objects of the invention will appear as the description proceeds, reference being had to the accompanying drawing, in which:

Fig. 1 is a view partly in elevation and partly in section of a bathtub heating assembly embodying the invention.

Fig. 2 is a transverse vertical sectional view of the same.

Fig. 3 is a plan view of the heat diffusing means.

Fig. 4 is a vertical sectional view through the heat diffuser and duct terminal.

Referring more particularly to the drawings, the numeral **10** refers to a conventional recessed tub with a frontal wall **11** apertured at **12** to accommodate the register **13**.

The floor **14** and sub-floor **15** have registering apertures as at **16**. A sheet metal element **17** surrounds the opening which is larger than the pipe element **18** receiving the elbow **19** connected with the duct **20** forming part of a conventional hot air heating plant. The diffusing element **21** prevents a hot spot on the tub bottom **22**, and includes the arcuately formed ring elements **23**, **24** and **25** fixed on the struts **26**.



In use, the heat will be diffused under the tub bottom **22** and will heat the area thereunder and within the walls **27** and **28** and the frontal tub portion **11**, finally discharging the heat through the register **13** to warm the room.

It will be understood that the device is capable of many modifications in structure and design, without departing from the spirit of the invention, within the scope of the appended claims.

Having thus described the invention, what is claimed and desired to be secured by Letters Patent of the United States, is:

1. In combination with a recessed bath tub, a floor surface thereunder having an aperture therein, a hot air duct having its discharge end in said aperture to supply heat under said tub, a heat diffuser coupled with the upper terminus of the hot air duct, and a plurality of arcuate deflectors for forcing the heated air circularly laterally of the terminus of said hot air duct.

2. In combination with a bathtub having a frontal flange extending downwardly beyond the tub portion to form a wall, said wall having a grilled opening, a floor surface under the tub having an aperture therein, a hot air duct having its discharge end in said aperture to supply heat under the tub and within said frontal wall, and a plurality of externally concave rings arranged progressively smaller from bottom to top crowning the discharge end of said hot air duct to diffuse heat laterally under said tub portion.

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