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W. A. HOLQUIST

FLAME ARRESTER FOR GAS HEATERS

Filed Feb. 8, 1922

Fig. 1.

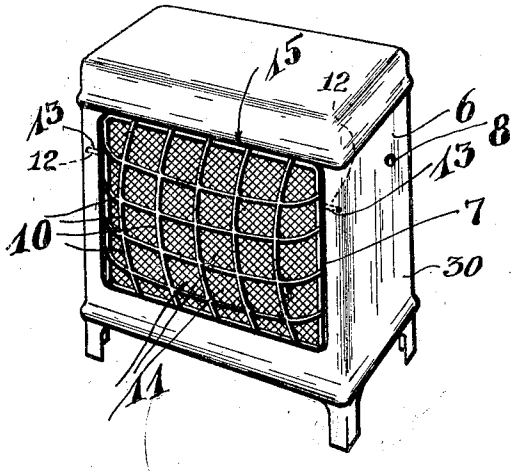
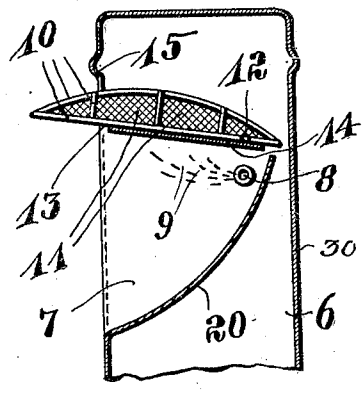


Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM A. HOLQUIST, OF LOS ANGELES, CALIFORNIA.

FLAME ARRESTER FOR GAS HEATERS.

Application filed February 8, 1922. Serial No. 534,928.

To all whom it may concern:

Be it known that I, WILLIAM A. HOLQUIST, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Flame Arresters for Gas Heaters, of which the following is a specification.

This invention relates to devices serving as a protection on gas stoves or heaters.

One of the objects of this invention is to provide a protecting member which can easily be attached and removed.

Another object is to provide a protecting member than can easily be moved to allow a cleaning of the stove or heater.

Another object is to provide a protecting member of strong framework with a fine-mesh screen.

Other objects will appear from the following description and appended claim as well as from the accompanying drawing, in which—

Fig. 1 is a perspective illustration of a gas heater with the protecting member in proper position.

Fig. 2 is a fragmentary vertical cross sectional view of a heater with the protecting member shifted upwardly and inwardly above the combustion chamber proper.

The heater 30 illustrated in Fig. 1 is normally provided with an open front, indicated at 7, and a gas supply connection, indicated at 8.

The gas supply pipe is normally arranged to produce a flame, as indicated at 9 in Fig. 2. Such a flame is liable to extend from the heater towards the open front 7, and thereby subject a passing person to catch fire if no protection is provided in front of the open front. Gas flames, however, as well as other flames, require a certain amount of oxygen to facilitate a proper ignition and burning as well as to produce heat in a proper manner. The open front in gas heaters is therefore essential to reflect and radiate the heat efficiently. The gas supply is normally far enough to the rear within the combustion chamber of the heater that the flame is not liable to extend beyond the front face of the heater. However, the clothing of a passing person is liable to swing or strike through the normally open front towards the flame, and thereby cause the clothing to catch fire.

To prevent this, a screen is provided as disclosed in the drawing, which will prevent any articles from getting too near the flames. A frame work of suitable strength is provided to support the finer screen, the frame work being indicated at 10 in all the several figures in the drawing, and the screen being indicated at 11.

The form illustrated in Fig. 2 is provided with sidewise projecting pins 12, shown in end view in this illustration. When the protecting member is moved into closed and protecting position, as illustrated in Fig. 1, these pins 12 come to rest at points 13, behind the portions of the casing in the front side of the heater. The baffle plate 14 is below the edge 15 to such an extent that the protecting member can be shifted into the heater so as to rest on the baffle plate within the heater, to allow a cleaning of the inside of the heater.

Having thus described my invention, I claim:

In a gas heater, a casing having an open heat-radiating front, the material of the casing extending over the front in form of narrow edges, heat-radiating baffles within the heater adjacent to the open front, and a protecting member of a form to close the open front of the casing and having engaging members extending into the casing behind the portions in the front of the casing and adapted to allow a shifting of the protecting member with the engaging members into the front opening of the casing and behind one of the baffles within the casing.

In testimony that I claim the foregoing as my invention I have signed my name in the presence of two subscribing witnesses.

WILLIAM A. HOLQUIST.

Witnesses:
O. H. KRUEGER,
JESSIE A. MANOCK.