United States Patent [19]

Numsen

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[54] **FIRE PLACE AIR CONDITIONING APPARATUS**

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[52] **U.S. Cl.**.....**62/259,** 62/304

[51] **Int. Cl.**.....**F25d 23/12**

[58] **Field of Search**.....62/259, 304, 314; 98/58, 59, 60, 48, 45, 46, 47

[56] **References Cited**

UNITED STATES PATENTS

2,637,181 5/1953 Schrum 62/259

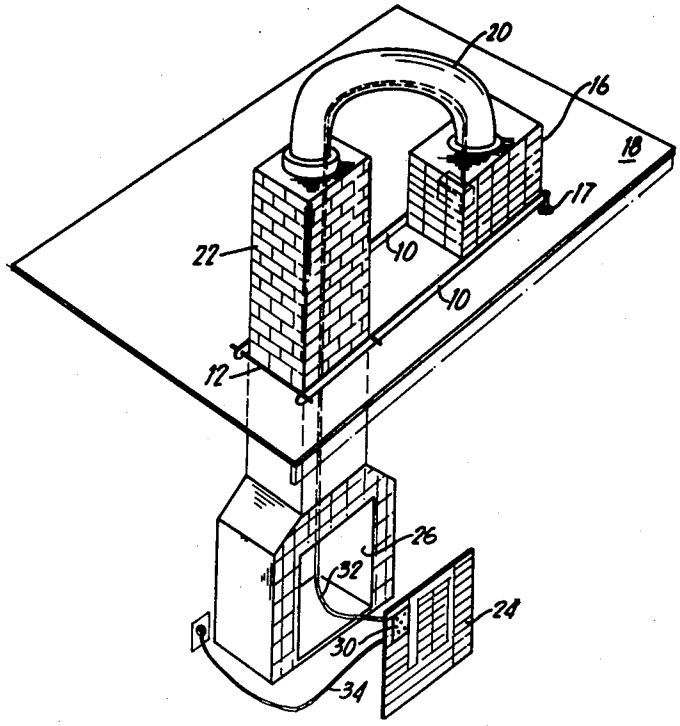
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[57] **ABSTRACT**

Air conditioning apparatus cooperates with and is at least partially installed in a fire place and its chimney to enable the fire place to be used for cooling as well as heating.

1 Claim, 2 Drawing Figures



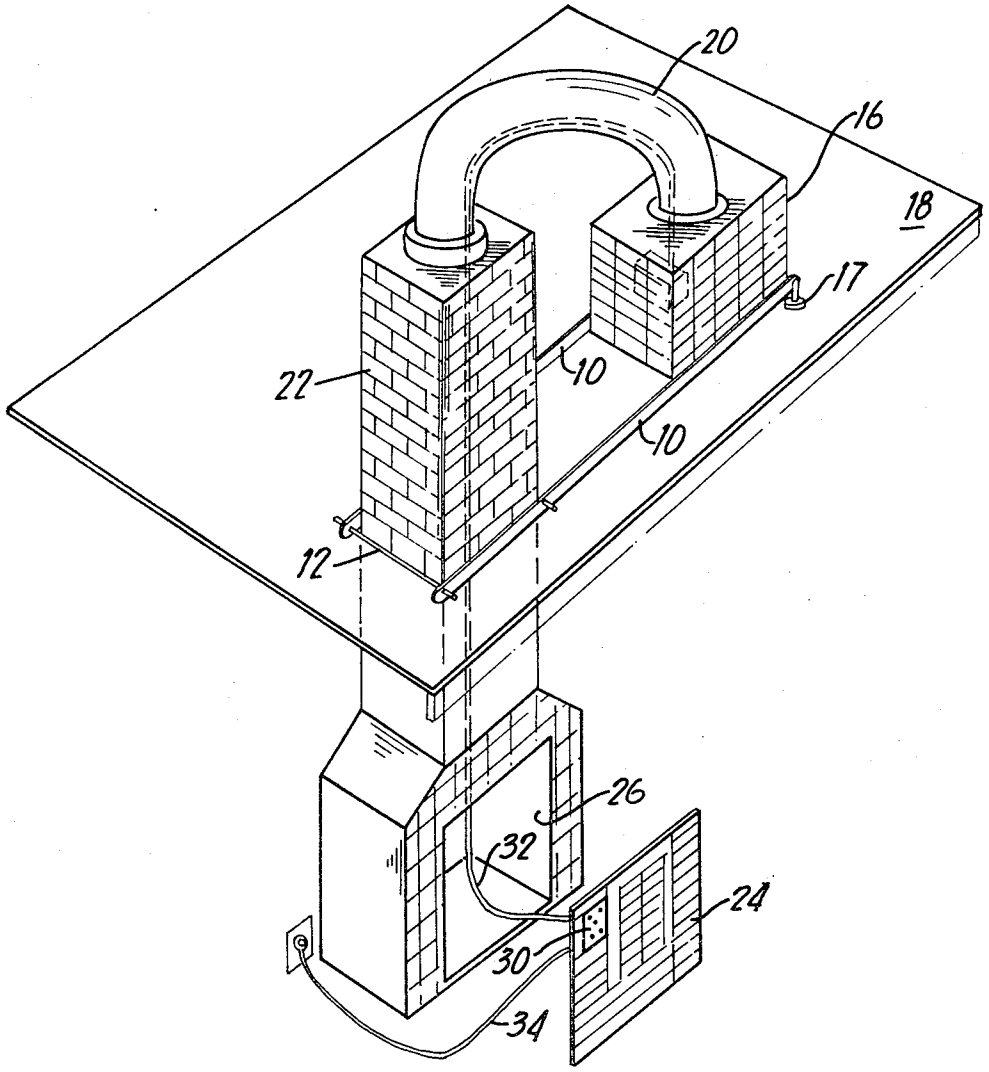


FIG. 1.

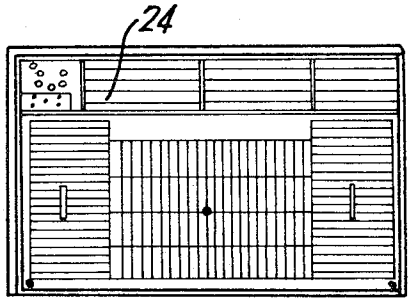


FIG. 2.

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FIRE PLACE AIR CONDITIONING APPARATUS

SUMMARY OF THE DISCLOSURE

My invention is directed toward apparatus making use of an existing fire place and chimney to permit the fire place to be used for cooling in the summers, the apparatus being at least partially removable to facilitate conventional use of the fire place for heating in the winter.

To this end, a special duct or tube is connected to the chimney, and a removable air conditioning unit is connected to the tube. The unit, which takes the form of an evaporative air cooler, is disposed on the roof and forces cool air down the chimney for discharge via the fire place. In winter, a panel in the fire place is removed, and the unit is disconnected from the chimney.

BRIEF DESCRIPTION OF THE DRAWINGS

In the drawings:

FIG. 1 is a perspective view of one form of my invention in use and;

FIG. 2 is a front view of the fire place as used in FIG. 1;

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

Referring first to FIGS. 1 and 2, parallel horizontal angle iron brackets **10** are secured to a chimney **22** by connecting rods and bolts **12** and cooperating nuts **14**. These brackets also are secured to an evaporative air cooling unit **16** and have feet **17** resting on roof **18**. A

removable curved length of tubing **20** connected between the unit **16** and the top of chimney **22** provides the desired air channel. A removable panel **24** in fire place **26** has grilles for passing and directing air flow. Suitable controls **30** are disposed in the panel. Electrical cable **32** passing up through chimney and tubing connects the unit to the controls. The controls are connected by a second cable **34** to a suitable source of electricity.

For winter use, the panel is removed and tubing **20** is also removed.

While I have described my invention with particular reference to the drawings, such is not to be considered as limiting its actual scope.

Having thus described this invention, what is asserted as new is:

1. In combination with a fireplace and a chimney extending upward therefrom and communicating therewith;

an air distribution panel removably disposed in said fireplace;

an evaporative cooler;

brackets secured to said chimney and to said cooler;

controls in said panel operatively connected to said cooler; and

a removable curved length of tubing connected between said cooler and the top of said chimney, whereby said cooler forces cool air through said tubing down through said chimney for discharge via the fireplace.

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