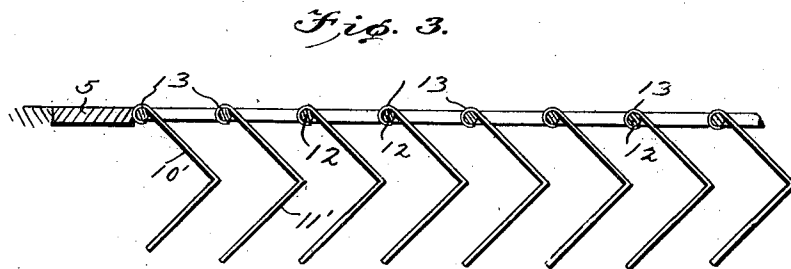
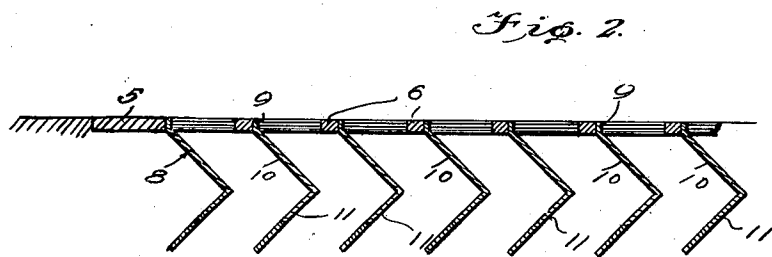
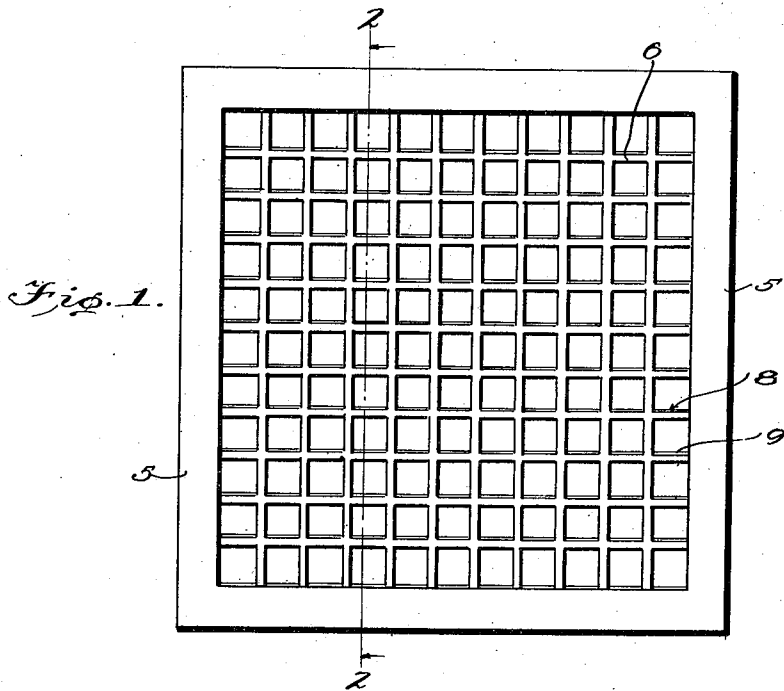


J. L. ELLISTON,
HOT AIR REGISTER.
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1,390,347.

Patented Sept. 13, 1921.



WITNESSES
L. W. Hankins

INVENTOR
J. L. Elliston,
BY *Mum & Co.*
ATTORNEYS

UNITED STATES PATENT OFFICE.

JAMES LEE ELLISTON, OF CLINTON, MISSOURI.

HOT-AIR REGISTER.

1,390,347.

Specification of Letters Patent. Patented Sept. 13, 1921.

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To all whom it may concern:

Be it known that I, JAMES L. ELLISTON, a citizen of the United States, and a resident of Clinton, in the county of Henry and State of Missouri, have invented certain new and useful Improvements in Hot-Air Registers, of which the following is a specification.

This invention relates to registers especially adapted for use in connection with the so-called pipeless furnaces.

An important object of this invention is to provide a register having novel means for cutting off the view of the interior of the main conduit of the pipeless furnace from the room into which the conduit discharges.

A further object is to provide a register having means which in addition to cutting off the view of the interior of the conduit give the register an appearance of strength so that persons will not hesitate to walk on the register.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawing forming a part of this application and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a plan view of a register embodied in the invention.

Fig. 2 is a detail sectional view through the same.

Fig. 3 is a detail sectional view through a slightly modified form of invention.

In the drawing wherein for the purpose of illustration is shown a preferred embodiment of the invention, the numeral 5 generally designates a register having a reticulated body 6 which is formed from a plurality of crossed rods or the like.

Briefly stated, this invention resides in providing simple means whereby people within the room provided with the register will not be permitted to look through the reticulated body and view the main heat conveying conduit which is directly beneath the register and which extends from the top of the furnace.

The inventive idea involved is capable of a variety of mechanical expressions, and by way of illustration I have shown a plurality of spaced parallel angle plates or bars 8 arranged directly beneath the register and having attaching means indicated at 9. Each angle bar 8 is provided with an upper

flange 10 which extends from the register to a point directly beneath the adjacent bar of the grating thereby cutting off a view of the interior of the conduit which communicates with the room within which the register is arranged. Each angle bar 8 is also provided with a downwardly extending flange 11 which serves to direct the heat between the upper flanges 10 and which serves also as a baffle for preventing solid particles of dirt or dust from passing through the register and into the room.

In the form of the invention illustrated in Fig. 3 the upper ends of the angle bars are rolled about the grating bars 12 as indicated at 13.

In carrying out the invention the angle bars or other means for obstructing the view may be attached to a frame capable of insertion in the upper portion of the conduit so as to effectively cut off the view of the interior of the conduit and to give the register an appearance of strength so that persons within the room will not hesitate to pass over the register.

The improved view-obstructing device does not interfere with the conduction of the heat through the register but rather increases the efficiency of the register since solid particles of dirt which may be suspended in the heated air are prevented from passing beyond the baffles.

It is to be understood that the form of the invention herewith shown and described is to be taken as a preferred example of the same and that such minor changes in arrangement and construction of parts may be made as will remain within the spirit of the invention and the scope of what is claimed.

Having thus described the invention, what is claimed is:—

1. A heat register for one-pipe furnaces comprising a reticulated body having a plurality of spaced parallel bars, said reticulated body being adapted to be arranged at the upper end of a conduit of a one-pipe furnace, and a plurality of angle bars having attaching means secured to the bars of said body and provided with upper flanges arranged in inclined position and terminating in the plane of the adjacent bars of the body, said angle bars also being provided with inclined flanges arranged at right angles to said first named flanges and constituting dust baffles, and a means for di-

recting the heat between the upper flanges, said angle bars being arranged in spaced parallel relation.

5 2. In a heat register, a body adapted to be arranged at the upper end of the conduit of a one-pipe furnace, of a plurality of angle bars having attaching means secured to said body and provided with upper

flanges arranged in an inclined position, said angle bars also being provided with lower 10 inclined flanges arranged at right angles to said first named flanges and constituting dust baffles and means for directing the heat between the upper flanges, said angle bars being arranged in spaced relation.

JAMES LEE ELLISTON.