

UNITED STATES PATENT OFFICE.

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HEATING STOVE.

Application filed April 10, 1922. Serial No. 551,129.

To all whom it may concern:

Be it known that I, BEAUMONT T. STREET, a citizen of the United States, residing at Springfield, in the county of Greene and State of Missouri, have invented certain new and useful Improvements in Heating Stoves, of which the following is a specification.

This invention relates to stoves, and more particularly to heating stoves.

An object of the invention is the provision of a heating stove in which cold air is taken from the room near the floor and delivered downwardly into the stove or directly into the stove pipe.

A further object is the provision of an intake pipe in which there will be a free flow of air at all times of a quantity equal to the capacity of the smoke pipe regardless of the position of the damper, thus furnishing a perfect check to the draft of the stove, and also ventilating the room in which the stove is located.

A further object is the provision of a single damper to close the opening from the intake pipe to the stove or cut off the flow of air through the intake pipe.

In the accompanying drawing, I have shown one embodiment of the invention. In this showing:

Figure 1 is a side elevation,

Figure 2 is a vertical central sectional view,

Figure 3 is a detail sectional view on line 3—3 of Figure 2, and,

Figure 4 is a detail view of an ash discharge door.

Referring to the drawing the reference numeral 1 designates a drum or casing forming the stove which is supported on legs 2 to space it from the floor. The stove is provided with an inlet opening 3 normally closed by a cover 4. Any suitable type of fuel may be burned in the stove. A stove pipe 5 is connected to the top of the stove as shown and an air inlet pipe 6 is arranged at the back of the stove extending to a point near the bottom of the stove. The upper end of this pipe is provided with an elbow 7 communicating with an opening 8 in the stove pipe. The casing is provided with an opening 9 communicating with the intake pipe and arranged near the top of the stove. A baffle plate 10 is arranged within the stove adjacent this opening and as shown the baffle plate extends from the top

and rear of the stove downwardly to the front.

The stove is provided with an ash outlet opening 11 arranged in the bottom near the rear and normally closed by a door 12 which is slidably mounted in suitable guides 13. A handle 14 is secured to the door and extends to the front to permit easy operation of the door 12.

A damper 15 is pivotally mounted in the air intake pipe adjacent the opening 9 and is adapted to close the opening 9 or cut off communication between the upper portion of the intake pipe and the lower portion. As shown this damper is mounted on a rod 16 extending through the side of the pipe and provided with a suitable handle 17.

In operation, the fuel is arranged within the stove and lighted and a draft is created causing air to flow into the lower end of the intake pipe 6. This withdraws air from a point near the floor of the room which is desirable. When the draft is open, the damper is arranged in the dotted line position shown in Figure 2 of the drawing and air flows through the opening 9 around the baffle plate 10 and upwardly through the fuel, the products of combustion passing out through the smoke pipe 5. When the draft is closed the damper is swung through a quarter revolution to close the opening 9 and the air then passes directly from the intake pipe to the smoke pipe. It will be apparent that in either instance there is a steady flow of air through the intake pipe 6 thus properly ventilating the room. The arrangement of the ash door adjacent the rear of the stove is advantageous as it permits the ashes to be removed at a point near the intake pipe which causes any dust to be drawn into the intake pipe by the suction when the stove is in operation.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same, and that various changes in the shape, size, and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described my invention, I claim:

1. A heating stove comprising a casing, a smoke pipe connected to the top of said casing, an intake pipe arranged at the back of the stove and communicating with said

smoke pipe, said casing being provided with an opening adjacent the top communicating with said intake pipe, a baffle plate arranged in said casing adjacent said opening, and
 5 means for delivering air to said casing or directly through said intake pipe to said smoke pipe.

2. A heating stove comprising a casing, a smoke pipe connected to the top of said casing, an intake pipe arranged in the back of said stove and communicating with said smoke pipe, said casing being provided with an opening adjacent the top communicating with said intake pipe, a baffle plate arranged in said casing, and a damper to control said last mentioned opening.
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3. A heating stove comprising a casing, a smoke pipe connected to the top of said casing, an intake pipe arranged in back of said stove and communicating with said smoke pipe, said casing being provided with an opening adjacent the top communicating with said intake pipe, a baffle plate in said casing extending from the top of the stove at the rear forwardly and downwardly, and a pivotally mounted damper arranged in said intake pipe to permit communication between said intake pipe and said casing when in one position and between said intake pipe and said smoke pipe when in the second position.
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4. A heating stove comprising a casing, a smoke pipe connected to the top of said casing, an intake pipe arranged at the back of the stove and communicating with said smoke pipe, said casing being provided with an opening communicating with said intake pipe, and means for controlling the passage of air through said intake pipe whereby said air may be caused to flow through said casing, or pass directly through said intake pipe to said smoke pipe.
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5. A heating stove comprising a casing, a smoke pipe connected to the top of said casing, an intake pipe arranged at the back of the stove and communicating with said smoke pipe, said intake pipe having a capacity equal to the capacity of said smoke pipe, said casing being provided with an opening adjacent the top communicating with said intake pipe, a baffle plate arranged in said casing adjacent said opening, and means for delivering air to said casing or directly through said intake pipe to said smoke pipe.
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In testimony whereof I affix my signature in presence of two witnesses.

BEAUMONT T. STREET.

Witnesses:

THOMAS F. REYNOLDS,
 ADA A. MABREY.