

J. B. OLDERSHAW.

Heating and Ventilating Register.

No. 167,355.

Patented Aug. 31, 1875.

Fig. 1.

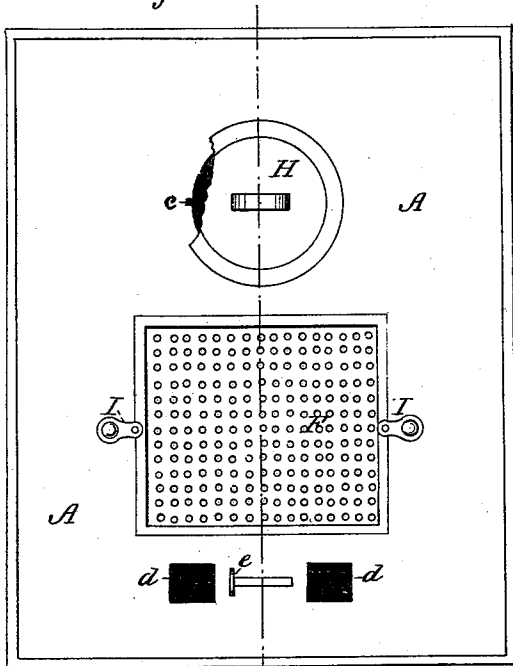


Fig. 2.

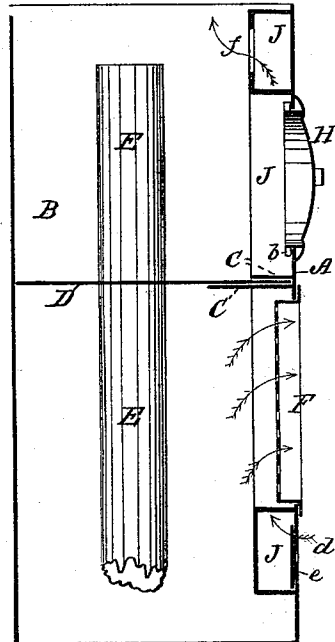
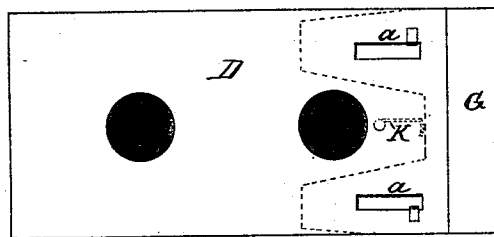


Fig. 3.



WITNESSES:

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IMPROVEMENT IN HEATING AND VENTILATING REGISTERS.

Specification forming part of Letters Patent No. 167,355, dated August 31, 1875; application filed August 13, 1875.

To all whom it may concern:

Be it known that I, JOHN B. OLDERSHAW, of Baltimore city, State of Maryland, have invented a new and Improved Heating and Ventilating Register; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a front elevation; Fig. 2, a central vertical section; Fig. 3, a detail of the flue-stopper, with extensible portion.

The invention relates to certain improvements in heating and ventilating registers.

In all cases where it is desired to heat one or more rooms above, from fire-place heaters, ranges, furnaces, or stoves, making the chimney-flue the heat-conductor to the rooms above, it becomes necessary to stop off the chimney-flue above the register with a perforated flue-stopper, the smoke-pipe closing the aperture in the flue-stopper to prevent the heat from passing out at the top of the chimney, thereby diverting the heat and passing the same through a register, for the purpose of heating the room in which the register is placed.

The method is now to cut a hole in the chimney-jamb sufficiently large to receive the register, put into the chimney a perforated piece of sheet-iron with flanges turned down, press it up above the aperture made for the register, and nail it through the flanges to the sides of the chimney, adjust the pipe through the flue-stopper, put in the register, and fasten it with cement. As there is no opening in the chimney-jamb above the register, therefore there is no way of examining the pipes above, or cleaning the soot from the flue-stopper, only through the aperture of the same after the pipe is removed.

My devices are so constructed and arranged that the flue-stopper can be adjusted without nailing, and be removed at pleasure, exposing to view the top, bottom, and pipe immediately above and below the flue-stopper without inconvenience, and also ventilate the room in which the register is used.

The invention will first be fully described, and then pointed out in the claims.

In the drawing, A represents the vertical front metal plate, which fits into the open portion of the chimney-flue B. Said plate is provided, near its center, with the horizontal flanges C C, which receive and support the flue-stopper plate D, which latter is pierced with holes to receive the vertical smoke-pipe E E. The said flue-stopper cuts off the heated air contained below it, and compels the same to pass through a register, F, into the room to be warmed. G is an extensible portion of the flue-stopper plate, which is attached to the latter by means of slides and guides *a*, and by means of which the said flue-stopper plate may be adjusted to the different-sized chimney-flues. K is a pivoted dent for holding the extensible portion stationary, for which device binding-screws may be used. H is an adjustable cap, provided with lugs or extensions *b*, which fits into an aperture in the front vertical plate just above the flue-stopper plate. The lugs of this cap are inserted in the slots *c c* of the plate, and the cap being turned the hole in the plate is closed, and the cap locked. The object of this opening is to give ready access to the upper part of the flue-stopper, for the purpose of cleaning out the soot and examining the connections of the smoke-pipes. I are revolving catches or buttons, which fasten the detachable register F in such a manner as to admit of its being taken out for the purpose of examining the smoke-pipes below the flue-stopper plate. J is an air-flue running around the edge and attached to the front plate A. Said flue is employed for ventilating purposes, and opens into the room near the bottom through holes *d*, regulated by a cut-off or slide, *e*, and into the chimney-flue above the flue-stopper at *f*.

Having thus described my invention, what I claim as new is—

1. The combination of the front plate A, having flanges C C, with the flue-stopper plate D, as and for the purpose described.

2. The combination, with the flue-stopper plate D, of the front plate A, having the detachable register F, and the detachable cap H, as and for the purpose described.

3. The combination, with the flue-stopper plate D, of the front plate A, having the ventilating-flue J, opening into the chimney-flue above, and into the room below, substantially as described.

4. The combination, with the chimney-flue and register, of the flue-stopper plate, having

an extensible and adjustable portion, G, to adapt it to different-sized flues, substantially as described.

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Witnesses:

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