

(No Model.)

J. H. REESE.
HOT AIR REGISTER.

No. 492,233.

Patented Feb. 21, 1893.

Fig. 1.

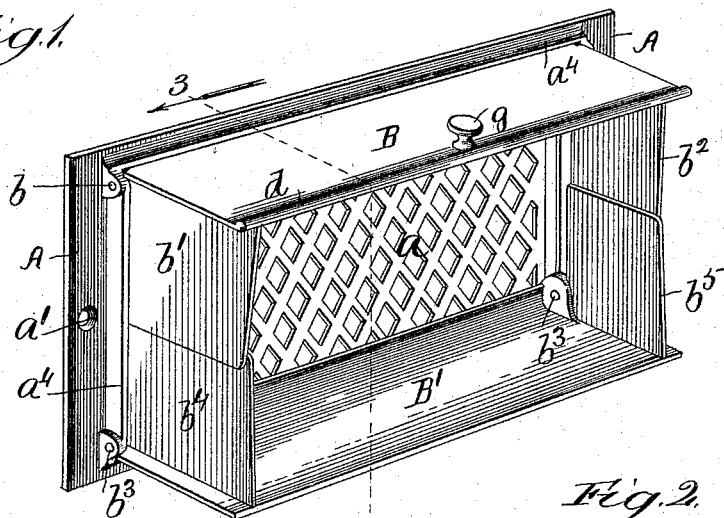


Fig. 2.

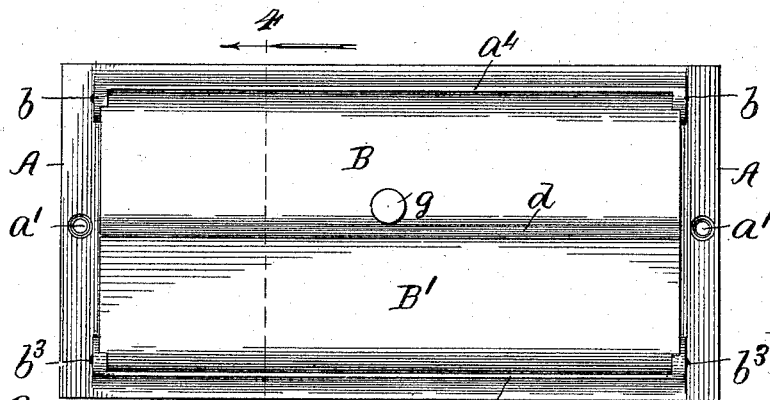


Fig. 3.

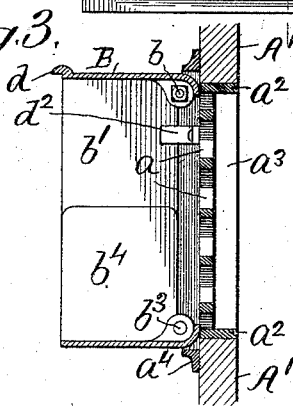


Fig. 5.

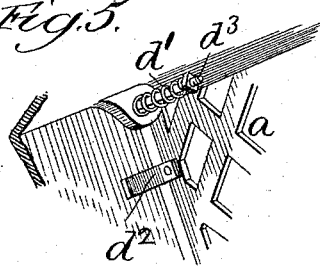
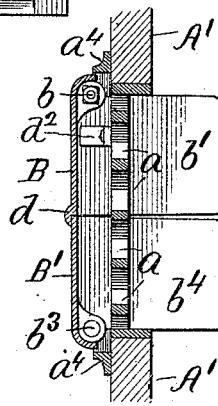


Fig. 4.



Witnesses:

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JOHN H. REESE, OF AUSTIN, ILLINOIS.

HOT-AIR REGISTER.

SPECIFICATION forming part of Letters Patent No. 492,233, dated February 21, 1893.

Application filed May 23, 1892. Serial No. 434,038. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. REESE, a citizen of the United States, residing at Austin, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Hot-Air Registers, of which the following is a full, clear, and exact description, that will enable others to make and use the same, reference being had to the accompanying drawings, in which—

Figure 1 is a view in perspective showing the register in an open position. Fig. 2 a front elevation, the register being closed. Fig. 3, a vertical transverse section on line 3, Fig. 1, looking in the direction indicated by the arrow. Fig. 4, a vertical transverse section on line 4, Fig. 2; and Fig. 5, a broken-away part showing construction details.

This invention relates to improvements in that class of registers set forth in Letters Patent No. 456,520, issued to me July 21, 1891.

The object is to so construct the device that the projecting box-part will fold up flat against the open face of the register when it is desired to close the same; thus not only providing a valveless register, but, also folding the projecting part out of the way when not in use.

Referring to the drawings, A represents the base-plate which is provided with the open-work or face, *a*, through which the hot air enters the apartment to be heated. In placing the register in position, this base-plate is rigidly secured to the base-board A' by means of screws inserted through apertures, *a'*, in the respective ends thereof. The back part of the base-plate is provided with a continuous shoulder flange, *a''*, (Figs. 3 and 4.) which extends into and incloses the hot-air opening, *a'''*, in the base-board. The front side of the base-plate is provided with a continuous rim, *a''''*, forming a raised border around the open face-work through which the heat enters from the hot-air flue. The upper half, B, of the closing cover or folding front is hinged or pivoted, as at *b*, in the upper inside corners of the inclosing rim *a''''*. This upper part of

the cover is provided with the half ends *b'* *b''*. The lower half, B', of the cover is hinged or pivoted, as at *b'''*, in the lower corners of the rim *a''''*, and is provided with the half ends *b''''* *b'''''*. The joining ends overlap to form a closed joint, and also to permit of the change of position in closing the register. The edge of the upper part of the cover is provided with the bead *d* which overlaps the meeting edge of the companion lower part of the cover and forms a tight joint when the parts are closed, as shown in Figs. 2 and 4. The upper part of the cover is held in the open or raised position, shown in Fig. 1, by means of one or more springs *d'*, (Fig. 5.) and a friction-lug, or lugs *d''*. The spring *d'* is mounted on the bolt *d'''*; the tension being regulated by nut *d''''*.

The knob *g* serves as a handle in opening the register, which may be conveniently closed with the foot.

In closing the register, the upper part turns downwardly and the lower part upwardly; the end parts projecting into the opening in the base-board, as shown in Fig. 4. By this arrangement all the advantage of the projecting box-part for throwing the hot-air out into the room is obtained, together with the additional advantage of folding such box-part back out of the way and closing the register at the same time.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a register of the character described, the combination with a base-plate, having an open face and adapted to be seated in the inclosing wall of a compartment, of a cover or front, consisting of an upper and lower part having joining ends and forming an open box-projection, whereby the heated air is discharged into the room away from the wall and the heat shut off when such projection is closed, substantially as set forth.

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Witnesses:

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