

WILLIAM YOUNG.

Improvement in Hot-Air Registers.

No. 114,247.

Patented April 25, 1871.

Fig. 1.

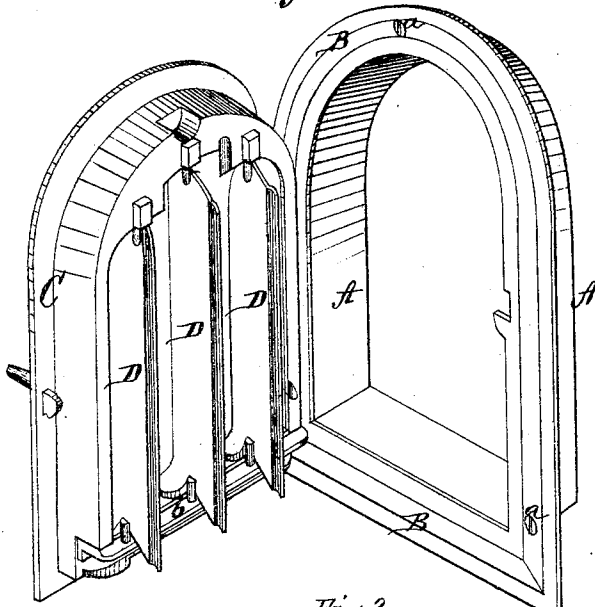
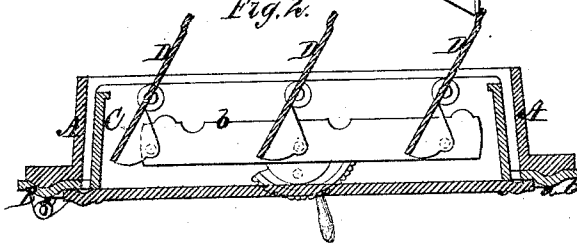


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM YOUNG, OF EASTON, PENNSYLVANIA.

IMPROVEMENT IN HOT-AIR REGISTERS.

Specification forming part of Letters Patent No. **114,247**, dated April 25, 1871.

To all whom it may concern:

Be it known that I, WILLIAM YOUNG, of Easton, in the county of Northampton and State of Pennsylvania, have invented certain new and useful Improvements in Hot-Air Registers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a hot-air register, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view of the register thrown open, and Fig. 2 is a horizontal section of the same.

A represents a cast-iron frame, of suitable dimensions, to be built into the wall or chimney where the register is intended to be. This frame is provided with suitable lugs or projections for the insertion of screws *a a*, with which the rim B is secured. The frame A supports the masonry, while the rim B hides said frame and the joint between the frame and the masonry.

The frame, as above mentioned, is built into

the wall; but the rim is not attached until the wall is entirely finished.

The rim B is provided on one side with hinges for attaching the register-face C, which is made of the usual open-work for the passage of the heated air. On the inner side of the face C are pivoted the vertical register-valves D D, the lower journals or pivots of which have their bearings in a sliding bar, *b*, said bar being operated from the front to open or close the valves at will.

With this arrangement anybody can, when the building is finished, attach the register by the simple means of a screw-driver to fasten it to the frame A.

The face C being hinged, it can be opened for the purpose of cleaning the register, or to let all the heat enter into the room.

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

A hot-air register composed of a cast-iron frame, a detachable rim with hinged face, and register-valves, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

WILLIAM YOUNG.

Witnesses:

NELSON HOYT, Jr.,
JOHN W. MACK.