

S. FAIRMAN.

HOT-AIR DEFLECTOR AND WATER EVAPORATOR.

No. 176,943.

Patented May 2, 1876.

FIG. I

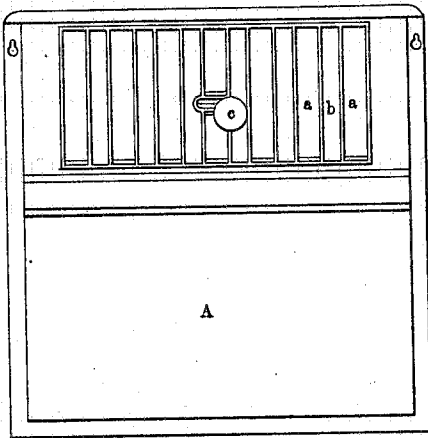


FIG. II

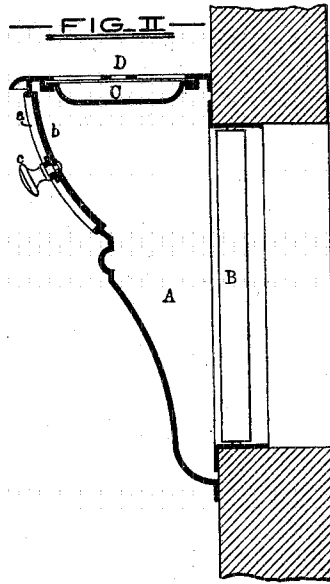
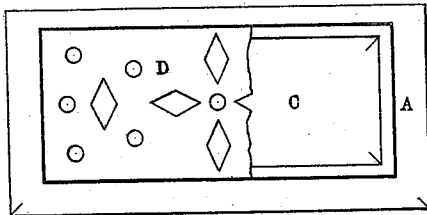


FIG. III



WITNESSES.

W. W. Wharton.
J. N. Fadden

INVENTOR.

Simon Fairman,
by G. H. H. Howard
his Atty.

UNITED STATES PATENT OFFICE.

SIMON FAIRMAN, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN HOT-AIR DEFLECTORS AND WATER-EVAPORATORS.

Specification forming part of Letters Patent No. **176,943**, dated May 2, 1876; application filed March 3, 1876.

To all whom it may concern :

Be it known that I, SIMON FAIRMAN, of the city of Baltimore and State of Maryland, have invented certain new and useful Improvements in Hot - Air Deflectors and Water - Evaporators Combined, of which the following is a specification ; and I do hereby declare that in the same is contained a full, clear, and exact description of my said invention, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

My invention relates to a portable device adapted to be hung over a hot-air register, for the purpose of causing the heated air issuing from the register to pass under and vaporize water contained in a tray before entering the apartment, as hereinafter fully described.

In the description of my invention which follows, due reference must be had to the accompanying drawing, forming a part of this specification, and in which—

Figure 1 is a front view of my invention ; Fig. 2, a transverse section of the same ; and Fig. 3, a plan of the invention, partly in section.

Similar letters of reference indicate similar parts of the invention in all the figures.

A is a box, hung by means of screws, nails, or other devices, against a wall and over the hot-air register B. A portion of the front of the box A is provided with slots *a*, adapted to be closed, when desired, by means of a slotted plate, *b*, constructed to have a limited sliding motion within the said box. The movement of the slotted plate *b* is obtained through the medium of a pin projecting from the said plate through a horizontal slot in the front of the box, and provided with a knob or handle,

c. C is a water-tray confined in the upper part of the box A, with the bottom thereof nearly on a line with the top of the register B. The tray is covered with a perforated removable plate, D, which allows of the escape of vapor from the water, when heated, by the air issuing from the register. Hot air issuing from a register placed perpendicular in a wall is not as effective in the heating of buildings as if the same volume of air were introduced at a point nearer the center of the apartment ; hence I make my deflector to project as far as is convenient, and thus prevent the cooling of the ascending column of air by contact with the wall.

My invention, in addition to being an ornament to a room, and affording means for moistening the dry air delivered from furnaces, is found to be very convenient in nurseries and apartments occupied by invalids, to heat water and small articles.

Having thus described my invention, what I claim as new, and wish to secure by Letters Patent of the United States, is—

The portable hot-air deflector and water-evaporator, consisting of the open-topped box A, provided with the top perforated water-tray C, and having front vertical slots *a* and a horizontal guide slot, combined with the vertically-slotted plate *b* and knob *c*, substantially as herein described.

In testimony whereof I have hereunto subscribed my name this 7 day of February, in the year of our Lord 1876.

SIMON FAIRMAN.

Witnesses :

W. W. WHARTON,
JNO. T. MADDOX.