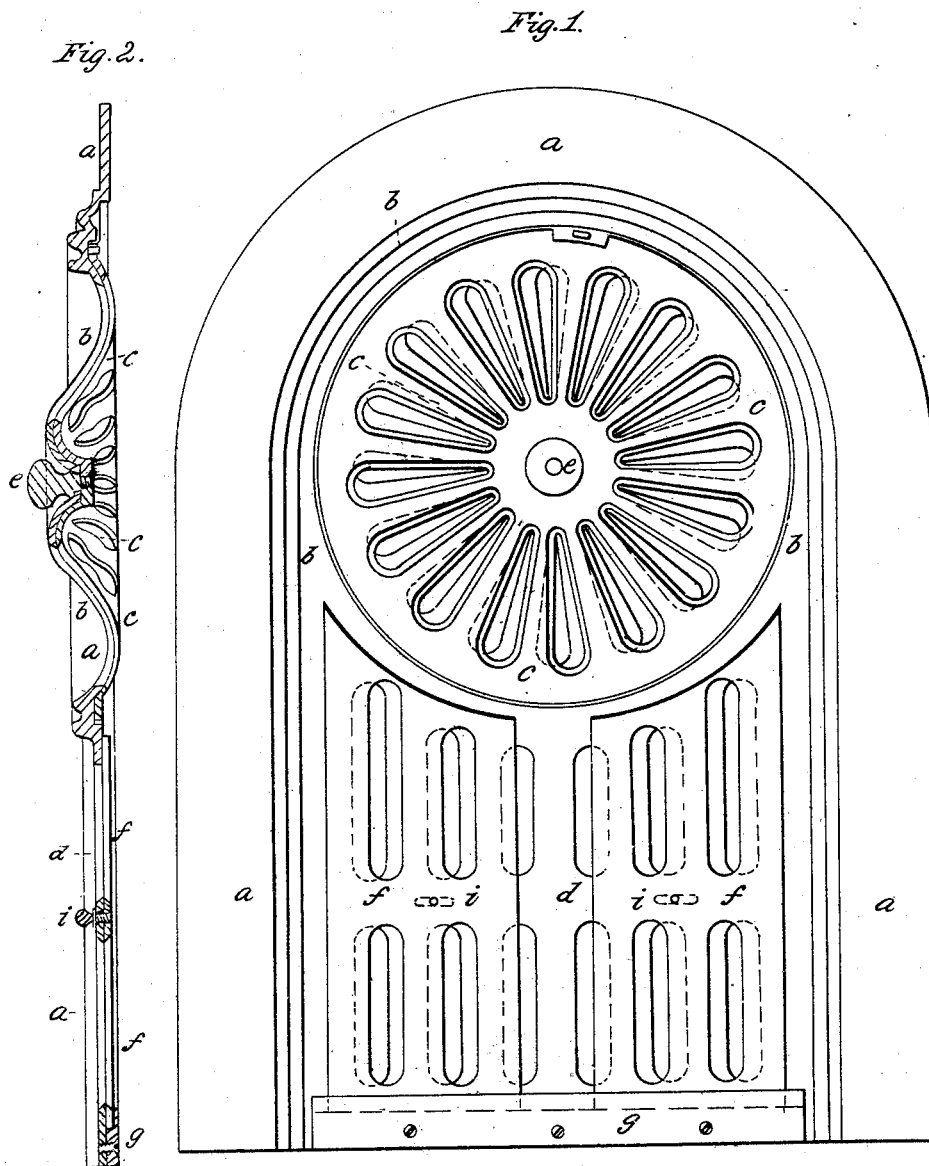


S. S. BENT.

Combined Register and Summer Piece.

No. 45,688.

Patented Jan. 3, 1865.



Witnesses:

Lemuel H. Terrell
Chas. H. Smith

Inventor:

Samuel S. Bent

UNITED STATES PATENT OFFICE.

SAMUEL S. BENT, OF NEW YORK, N. Y.

COMBINED REGISTER AND SUMMER-PIECE.

Specification forming part of Letters Patent No. **45,688**, dated January 3, 1865.

To all whom it may concern:

Be it known that I, SAMUEL S. BENT, of the city and State of New York, have invented, made, and applied to use a certain new and useful Improvement in Registers for Warming and Ventilating; and I do hereby declare the following to be a full, clear, and exact description of my said invention, reference being had to the annexed drawings, making part of this specification, wherein—

Figure 1 is a back elevation of my register, and Fig. 2 is a section of the same.

Similar marks of reference denote the same parts.

Registers for ventilation and for hot air have heretofore been made of circular plates with openings through them, the one plate fitted to turn on the other and open or close the passage for air. In cases where the hot air has passed through the opening usually provided for a grate or fire-place the said opening has been filled by an ornamental grating, with turning valves or registers behind that grating.

In the manufacture of grates it is usual to provide an ornamental "summer-piece" to set into the fire-place when the grate itself is removed.

The nature of my said invention consists in providing this ornamental summer-piece with a movable plate or plates at the back, whereby said summer-piece becomes a register to regulate the temperature in winter or the ventilation through the chimneys in summer.

In the drawings, *a* represents the plate known as the "summer-piece" for grate-frames

to take the place of the grate itself. *b* is the circular open ornamental part usually formed in such summer-pieces. *c* is a register-plate behind this portion, fitted in any usual manner to open and close the air-passages through *b*. I have shown said plate *c* as fitted to be turned by a button, *e*, applied at its center and extending through the center of *b*. *d* is the portion of the summer-piece *a* below *b* that is usually provided with openings running in a vertical direction. The register-plates *ff* are shown as sliding on the cross-bar or support *g* and provided with knobs *i* on the fronts of the summer-piece, by which they are moved in covering or uncovering the openings in *d*.

It will be evident that this combined register and summer-piece for grate frames is a new and useful article. Where the chimney is provided with hot-air pipes the summer-piece takes the place of expensive registers placed behind an ornamental plate and separately made and actuated; and in cases where this summer-piece is introduced in an ordinary chimney the ventilation through the same can be regulated at pleasure by the registers.

What I claim, and desire to secure by Letters Patent, is—

The combined register and summer-piece for grate-frames, constructed substantially as specified.

In witness whereof I have hereunto set my signature this 1st day of October, 1864.

SAMUEL S. BENT.

Witnesses:

LEMUEL W. SERRELL,
CHAS. H. SMITH.