No. 685,157. Patented Oct. 22, 1901.

E. B. LOBACH.

REGISTER.

(Application filed June 13, 1901.)

(No Model.)

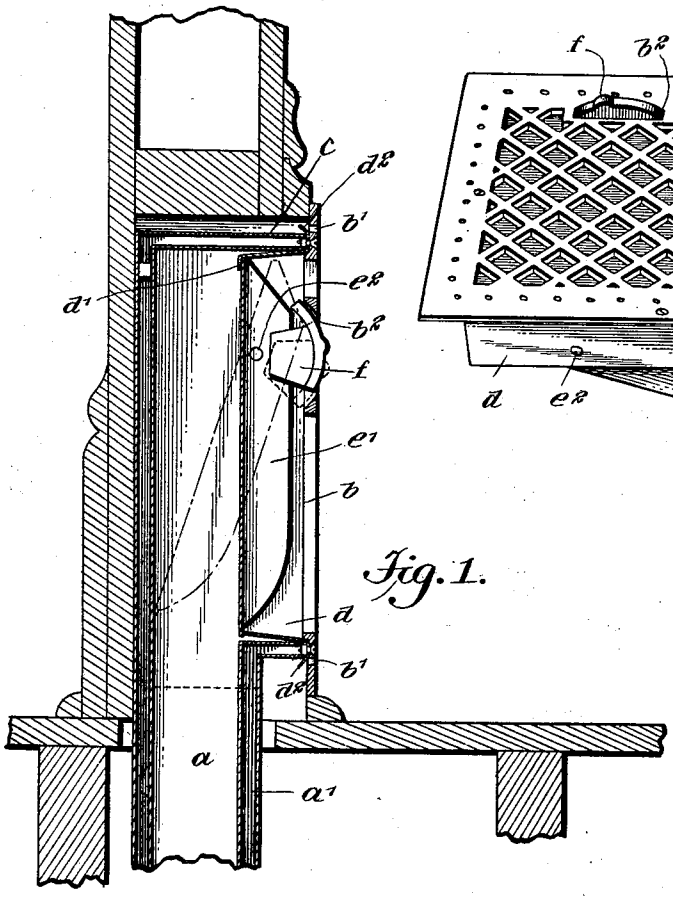


Fig. 1.

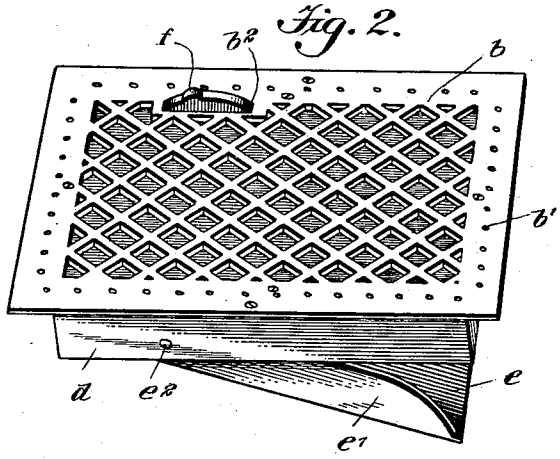


Fig. 2.

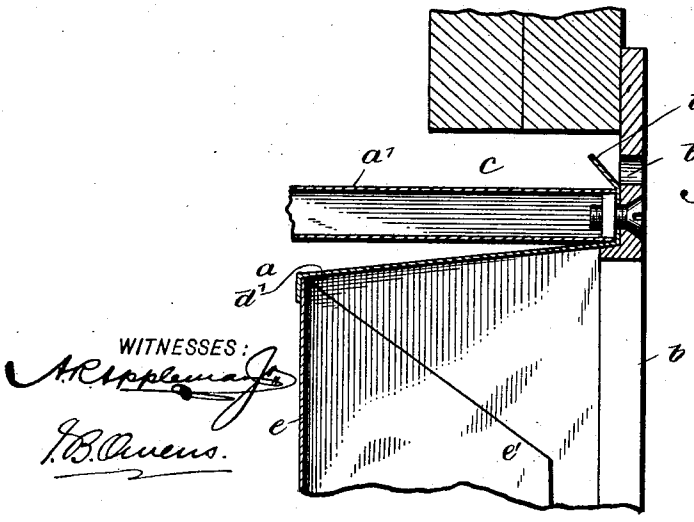


Fig. 3.

WITNESSES:

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EUGENE BLAIR LOBACH, OF DENVER, COLORADO, ASSIGNOR OF TWO-THIRDS TO PHILIAS DUBOIS AND GEORGE C. STEPHENS, OF DENVER, COLORADO.

REGISTER.

SPECIFICATION forming part of Letters Patent No. 685,157, dated October 22, 1901.

Application filed June 13, 1901. Serial No. 64,392. (No model.)

To all whom it may concern:

Be it known that I, EUGENE BLAIR LOBACH, a citizen of the United States, and a resident of Denver, in the county of Arapahoe and State of Colorado, have invented a new and Improved Register, of which the following is a full, clear, and exact description.

This invention relates to a register adapted to control the admission of heated air into apartments; and it comprises certain novel features of construction, which will be fully brought out hereinafter.

This specification is a specific description of one of the forms of the invention, while the claims are definitions of the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a sectional view of the invention, showing the register in position. Fig. 2 is a detail perspective view illustrating the register detached from the walls; and Fig. 3 is an enlarged fragmentary section, hereinafter more particularly described.

a indicates the hot-air flue, which is here shown as surrounded by a jacket *a'*, forming a dead-air space. *b* indicates the face of the register, which has a foraminous part for the free circulation of air and a marginal part formed with relatively minute perforations *b'*. The face of the register is fastened vertically in position, as shown in Fig. 1, so as to lie over the opening through which the hot air passes into the room, and the orifices *b'* are arranged to register with an air-space *c*, lying around the flue *a*. The perforations *b'* allow the free circulation of air at this point and prevent heating the margin of the face of the register. This avoids the necessity of providing other means for preventing conducting the heat to the walls of the building.

Fastened to the face or body *b* of the register is a sheet-metal case *d*. This case is open at its rear side and has the side flanges *e'* of the register-gate *e* pivoted thereto at the point e^2. These side flanges *e'* fit friction-tight within the case *d*, so that the gate *e* is held by friction in any position in which it is put. The upper end of the gate *e* engages under the downturned flange *d'* at the top of the gate *e*, and the lower end of the gate lies against the bottom end wall of the case *d*. This affords a secure and practically hermetic connection between the parts *d* and *e*, and therefore insures a thorough closing of the register. The marginal edges of the case *d* are riveted or otherwise fastened to the face or body *b* of the register, and said edges are projected outward and bent slightly inward, as indicated at d^2 in Figs. 1 and 3. These projected edges lie back of the perforations *b'* in the face *b* and hide the parts back of said face-plate from view. They do not, however, hinder the circulation of air through the orifices *b'*, owing to the inward bend which is given the parts d^2.

f indicates a finger-piece which is fastened to one of the side flanges *e'* of the gate *e* and which projects through an opening b^2 in the face or body *b* of the register.

The parts are placed in position, as shown in Fig. 1, and by throwing the finger-piece *f* from one position to another the gate *e* may be closed, as indicated by the full lines in said view, or thrown open, as indicated by the dotted lines.

Various changes in the form, proportions, and minor details of my invention may be resorted to without departing from the spirit and scope thereof. Hence I consider myself entitled to all such variations as may lie within the scope of my claims.

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

1. A register, having a face or body portion, a case secured to the rear thereof, and a gate held in the case, the case having its edges extended at the rear of the face or body portion, and the face or body having perforations lying opposite said extended edges of the case, for the purpose specified.

2. A radiator, having a face or body portion with an opening therein, a case secured to the rear of the body portion, a gate located in and commanding the case and having side flanges pivotally connected with the walls thereof, and a finger-piece attached to one of

the side flanges and projecting forwardly through the opening in the face or body portion, to permit the operation of the gate.

3. A radiator having a face or body portion, a case secured to the rear thereof, the case having side and top and bottom walls and being open at its rear, a gate commanding the open rear of the case, the gate having side flanges projecting forwardly and pivotally joined to the side walls of the case, and means in connection with the gate for permitting the adjustment thereof.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EUGENE BLAIR LOBACH.

Witnesses:
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PHILIAS DUBOIS.