

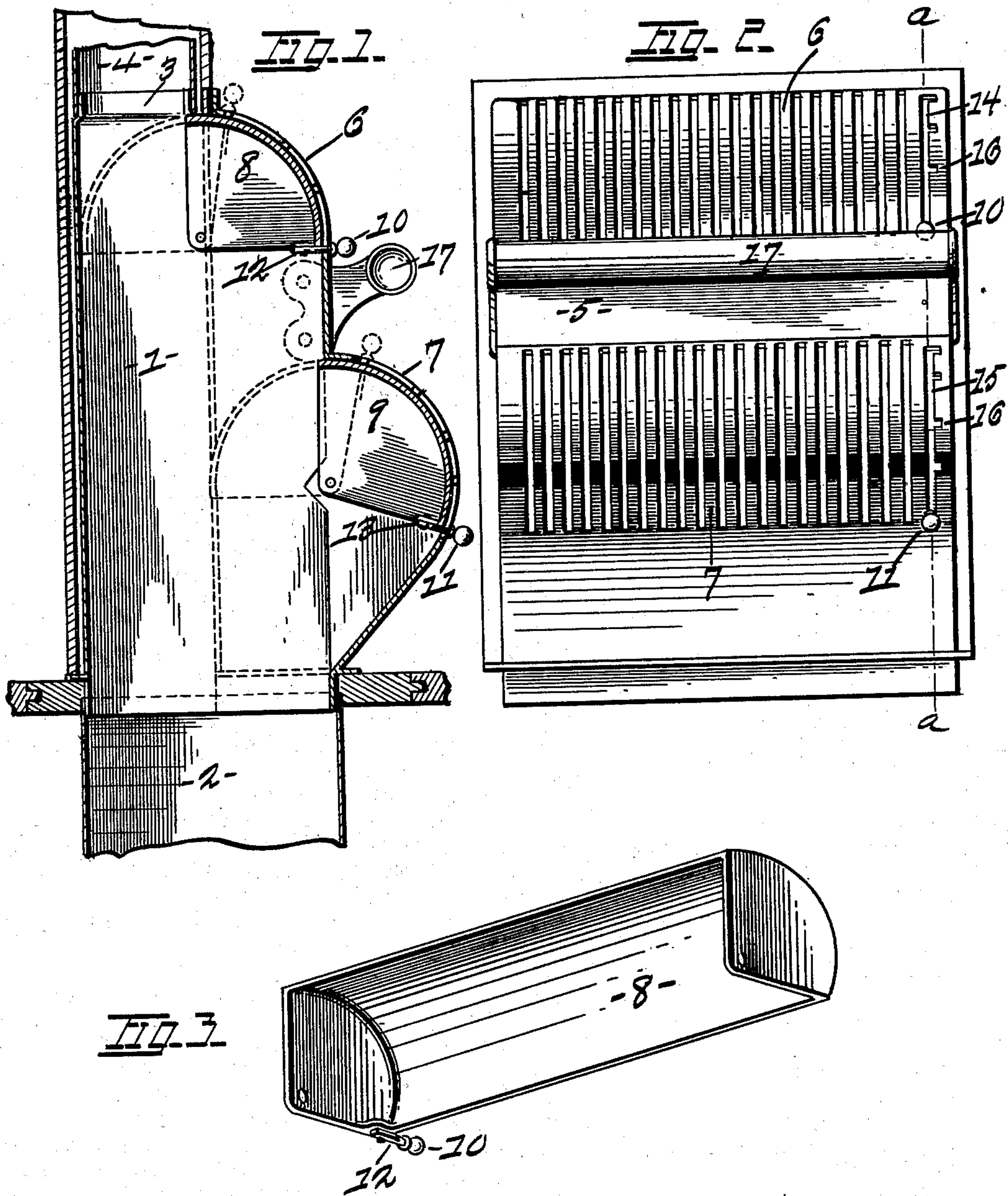
No. 705,609.

Patented July 29, 1902.

J. H. PUGH.
HOT AIR WALL REGISTER.

(Application filed Mar. 28, 1902.)

(No Model.)



WITNESSES

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HOT-AIR WALL-REGISTER.

SPECIFICATION forming part of Letters Patent No. 705,609, dated July 29, 1902.

Application filed March 28, 1902. Serial No. 100,401. (No model)

To all whom it may concern:

Be it known that I, JESSE H. PUGH, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have
5 invented certain new and useful Improvements in Hot-Air Wall-Registers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which
10 it appertains to make and use the same.

My invention has reference to an improvement in hot-air wall-registers, and has for its object to provide simple and effective means for regulating the supply of hot air admitted
15 to the rooms of a dwelling.

In the construction of my improved register I provide two separate and distinct outlets for hot air, each outlet being controlled by a curved deflector, by which the hot air is dis-
20 charged in two separate volumes into a room, thereby insuring greater and more rapid diffusion, and consequently more effective ventilation.

In carrying out my invention I employ the
25 novel arrangement and the parts and combination of parts hereinafter shown, described, and claimed.

In the drawings, Figure 1 is a sectional elevation of my register, showing the same in position in a wall, the operation of the same being illustrated in dotted lines. The section through the register-front is indicated by the broken line *a a*, Fig. 2. Fig. 2 is a view of the register-front removed from the wall.
30 Fig. 3 is a perspective view of one of the curved deflectors which I employ with my register.

Referring to the parts, 1 is a shell or case, preferably constructed of sheet metal, a hot-air pipe 2 connecting with the lower end of the same. At the top of the case is a rectangular opening 3, through which the hot air may pass into the room above that containing the register, a hot-air pipe 4 conducting the
45 air upward. The case is formed with a back and side sections, being permanently closed upon three sides, and around the forward side of the same is fitted the register-front 5, the upper portion of which at 6 is in the form of
50 an arc, and the same is slotted or otherwise

cut out to form a grating. In like manner the lower portion of the register-front is curved in the form of an arc at 7, and the same is also cut out to form a grating to permit the hot air to pass therethrough. Piv-
55 oted to the case on either side are deflectors 8 and 9 in the form of arc-shaped plates, conforming to the shape of the portions 6 and 7 of the case. These are operated by means of knobs 10 and 11 upon the ends of stems 12
60 and 13, which pass through elongated slots 14 and 15 and engage notches 16 along the slots. By this means the deflectors may be held in the various positions which they may assume.
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17 is a foot-rest supported upon brackets, and the same occupies a position immediately forward of the case between the arc-shaped portions 6 and 7.

The operation of the register is briefly as
70 follows: When the deflectors are in the respective positions shown in full lines in Fig. 1, the passages through the arc-shaped portions 6 and 7 will be closed. The hot air will then pass upward through the rectangular
75 opening in the top of the case and may be discharged into the room above. Now if the deflectors are made to assume the positions shown in dotted lines, Fig. 1, the passage for hot air through the top of the case will be
80 closed and the same will be discharged through the arc-shaped gratings 6 and 7 in two separate volumes. If the lower arc-shaped grating is closed and the upper one remains open, the hot air will pass straight
85 upward and out of the upper arc-shaped grating. It is evident that the deflector 8 may be adjusted at any suitable point between that shown in full lines and that in dotted lines, Fig. 1, to permit part of the hot air to pass to
90 the room above, the remaining portion passing through the register-front. The advantage of placing the foot-warmer between the two volumes of hot air issuing from the register is to be observed. Should the same be
95 placed in the direct path of the hot air, the temperature of the metal of which the same is constructed would be raised to a point to make the same uncomfortably hot for the feet.
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From the foregoing description the simplicity of construction and efficient operation of my invention will be apparent.

Having described my invention, what I
5 claim, and desire to secure by Letters Patent of the United States, is—

In a hot-air wall-register, the case provided with an open bottom and the top opening 3, the front for the case having the upper
10 slotted arc-shaped portion 6, and the lower slotted arc-shaped portion 7, the pivoted deflector 8, adapted to control the passage of

hot air through the portion 6 and the opening 3, the pivoted deflector 9 adapted to control the passage of hot air through the portion 7, 15 and means for adjusting the deflectors, as set forth.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

JESSE H. PUGH.

Witnesses:

CARL H. KELLER,
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