

M. E. DANFORTH.
WALL BOX FOR AIR PIPES.
APPLICATION FILED MAY 26, 1909.

945,707.

Patented Jan. 4, 1910.

Fig. 1.

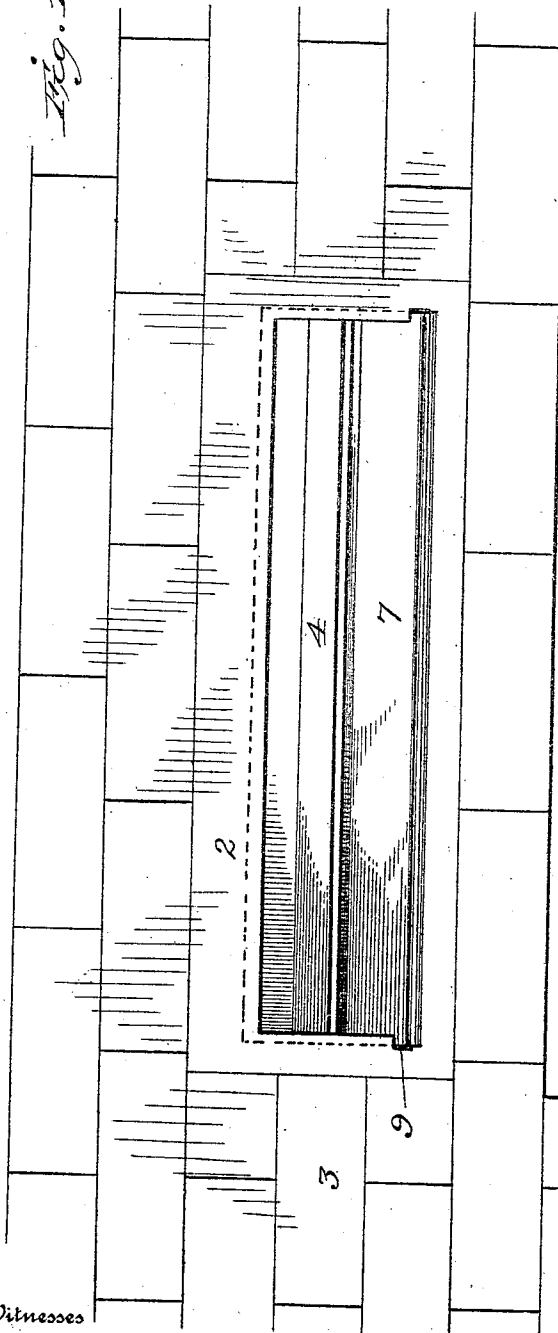


Fig. 3.

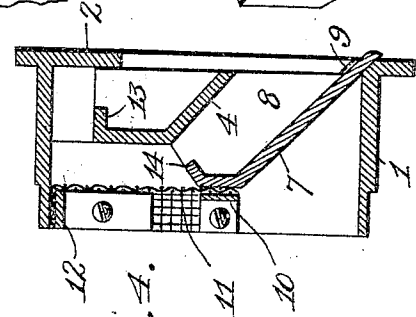
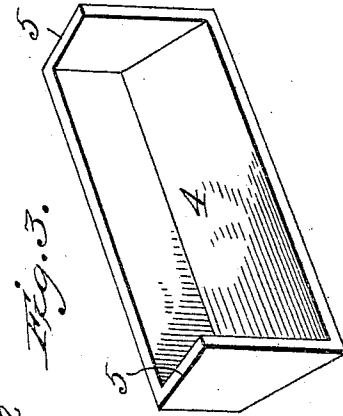


Fig. 4.

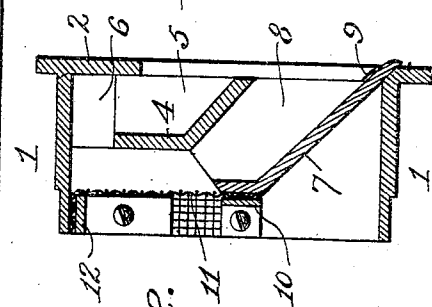


Fig. 2.

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UNITED STATES PATENT OFFICE.

MONTGOMERY E. DANFORTH, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR
TO UNITED STATES RADIATOR COMPANY, OF DUNKIRK, NEW YORK, A CORPORATION OF NEW YORK.

WALL-BOX FOR AIR-PIPES.

945,707.

Specification of Letters Patent.

Patented Jan. 4, 1910.

Application filed May 26, 1909. Serial No. 498,531.

To all whom it may concern:

Be it known that I, MONTGOMERY E. DANFORTH, a citizen of the United States, residing at Washington, in the District of Columbia, have invented new and useful Improvements in Wall-Boxes for Air-Pipes, of which the following is a specification.

My invention relates to wall boxes for air pipes, and has for its object to provide an improved construction of the same whereby rain and snow will be effectually excluded without interfering with the free admission of air, and whereby the water thrown within said box will be discharged free from the wall.

Heretofore in devices of this character the inclined deflecting plates therein have been located entirely within the outer flange thereof, whereby rain or other moisture would be forced to seep therefrom between said flange and the wall of the building, which soon resulted in a discoloration of the wall as well as injury thereto. By my improved construction the water is all discharged outside of and free from said flange, thus obviating this defect in the devices heretofore in use.

In the accompanying drawing: Figure 1 is a front view of a portion of a wall showing my improved box in position therein. Fig. 2 is an enlarged detail vertical transverse sectional view of my improved wall box detached. Fig. 3 is a detail perspective view of the upper deflecting plate. Fig. 4 is a view similar to Fig. 2, illustrating a slightly modified construction.

Similar numerals of reference denote corresponding parts in the several views.

In the said drawing the reference numeral 1 denotes the body or case of my improved wall box, and 2 the outer flange thereof adapted when in position to lie against the outer face of the wall 3 of the building, said body or case and flange being formed integral. Located within the body 1 is an upper deflecting plate 4 formed vertical as to its upper portion, and inclined downwardly and outwardly at its lower portion, said plate having end walls 5, the upper edges of which contact with projecting surfaces 6 formed in the end walls of the body 1, as seen in Fig. 2. Located beneath the plate 4 is a lower deflecting plate 7, similarly shaped, but with a shorter vertical portion and a longer inclined portion, as shown, and

similarly provided with end walls 8 shaped to abut at their upper inclined edges with the under side of the inclined portion of plate 4 to retain the latter in position against the surface 6, it being understood that the end walls 5 of said plate 4 by abutting against the flange 2 of body 1 are prevented from forward movement. As seen in the drawing, the lower end of the lower plate 7 is projected somewhat beyond the front face of the flange 2; said flange being slotted at 9 to permit this projection. The lower plate 7 is retained in position by a horizontal metal strip 10 extending across the body 1 and bent at its ends to be bolted to the end walls of said body. Said strip 10 also retains between it and the plate 7 the lower edge of a wire screen 11, whose upper edge is retained in position by a strip 12, similar to strip 10, the ends of which are bent downwardly and bolted to the end walls of body 1, said screen thus preventing the entrance of objectionable matter into the air pipe.

From the above description it will be seen that rain beating into the box will be intercepted by the plates 4 and 7, and that by projecting the lower edge of the plate 7 beyond the face of the flange 2 the water so intercepted will be discharged free from the flange 2 and will be effectually prevented from entering the lower portion of the box and seeping down between the same and the wall.

In Fig. 4 I have shown a slight modification wherein the upper ends of the plates 4 and 7 are turned forward at an angle, as shown at 13 and 14, respectively, whereby the entrance of water into the box will be more effectually prevented, without interfering with the passage of air.

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

1. In a wall box for air pipes, a body having an outer flange, and a deflecting plate located within said body and projected at its lower edge beyond said flange, said plate being formed with end walls contacting with the end walls of said body and with the inner side of said outer flange.

2. In a wall box for air pipes, a body having an outer flange, and a deflecting plate located within said body and projected at its lower edge beyond said flange, said flange

being slotted to permit the passage there-through of the lower end of said plate.

3. In a wall box for air pipes, a body having an outer flange and projecting surfaces on the inner faces of its end walls, an upper deflecting plate located within said body and having end walls abutting against said projecting surfaces and the inner face of said flange, a lower deflecting plate located within said body and having end walls abutting against said upper deflecting plate

and said flange, and a transverse strip bolted to the end walls of said body and engaging said lower deflecting plate to retain both of said deflecting plates in position. 15

In testimony whereof, I have hereunto set my hand in the presence of two subscribing witnesses.

MONTGOMERY E. DANFORTH.

Witnesses:

PERCY B. HILLS,
A. L. MAY.