

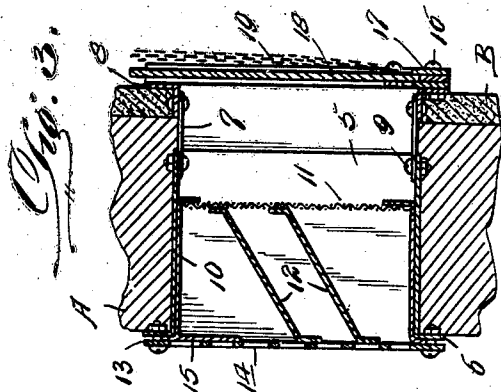
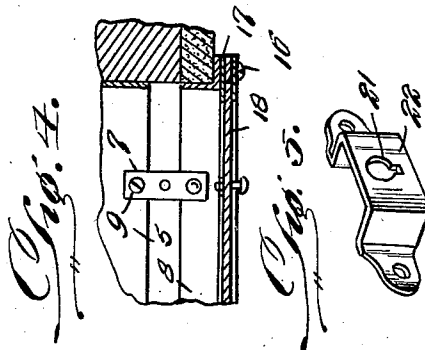
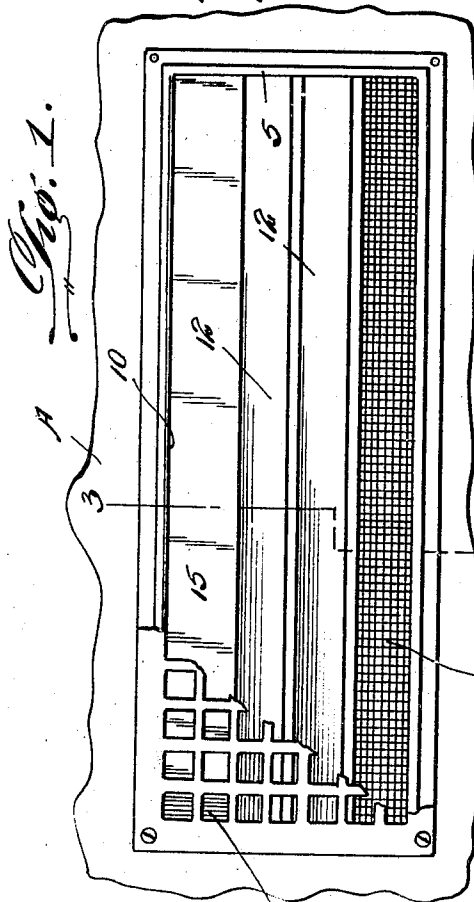
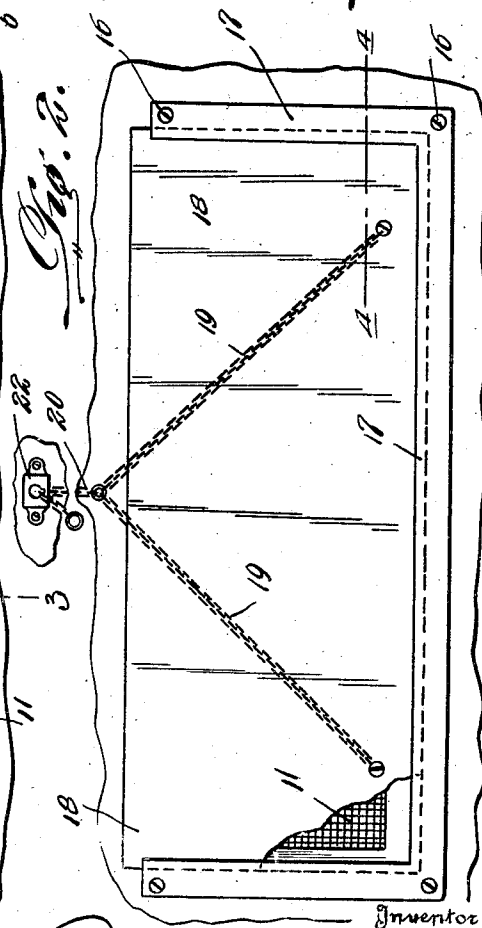
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L. M. FREDERICK

1,493,875

WALL BOX

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Witnesses:
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UNITED STATES PATENT OFFICE.

LAWRENCE M. FREDERICK, OF ATLANTA, GEORGIA.

WALL BOX.

Application filed February 12, 1923. Serial No. 618,493.

To all whom it may concern:

Be it known that I, LAWRENCE M. FREDERICK, a citizen of the United States, residing at Atlanta, in the county of Fulton and State of Georgia, have invented certain new and useful Improvements in Wall Boxes, of which the following is a specification.

My invention relates to improvements in wall boxes and has for the primary object thereof, the provision of such a device that may be incorporated into the building wall during the construction thereof for providing a fresh air inlet into the building, the box being of such a nature and construction as to be readily adapted to walls of different thicknesses.

A further object of the invention resides in the provision of such a wall box, wherein the flow of air into the building through the box may be regulated by a sliding damper plate, my invention being further characterized by its simplicity of construction, and easy of installation.

The nature and advantages of the invention will be better understood when the following detailed description is read in connection with the accompanying drawings, the invention residing in the construction, combination, and arrangement of parts as claimed.

In the drawing forming part of this application, like numerals of reference indicate similar parts in the several views, and wherein:—

Figure 1 is a front elevational view of a wall box constructed in accordance with my invention, and being shown as incorporated within the building wall and a portion thereof being fragmentarily shown.

Figure 2 is a rear elevational view of the wall box, a portion of the sliding damper plate being broken away for more clearly disclosing the interior of the box.

Figure 3 is a vertical transverse cross sectional view upon the broken line 3—3 of Figure 1.

Figure 4 is a fragmentary cross sectional view through a portion of the box, and

Figure 5 is a perspective view of a specific form of catch employed in conjunction with my invention.

With specific reference to the drawings, my device constitutes the provision of a substantially elongated and rectangular frame 5, which is adapted to be set directly

into the building wall A during the construction thereof. It is desirable that the width of this frame be less than the thickness of the wall, the same being formed at its front end and upon its four sides thereof, with a flange 6, which flange is adapted for close contact with the outer surface of said wall A. Connected to the inner end of the frame 5, through the instrumentality of a desirable number of metallic strips 7 is a substantially rectangular shaped frame 8, of L shape in cross section, and adapted to be embedded within the usual plaster surface B, upon the interior of the wall A. These metallic strip members 7 may be formed with a plurality of openings therein for receiving the fastening means 9, whereby the frames 5 and 8 may be adjusted to compensate for different thickness of wall construction.

Within the front end of the frame 5, there is inserted what may be termed a louver frame 10, also of open rectangular construction and provided with a renewable inner wall of screening 11. This louver frame 10 is formed with a plurality of longitudinally extending spaced louver or bevel plates 12, the same being inclined upwardly towards their inner ends as per Figure 3. The front end of the louver frame 10 is flanged as at 13, whereby the same may be rigidly secured within the first mentioned frame 5 through the instrumentality of any desirable design of grill plate 14. The louver frame 10 is further characterized by the formation of a longitudinally extending skirt portion 15 at its upper end for preventing the direct passage of air through the upper portion of the frame so that all of the air passing through said frame will be directed upwardly therein so that dust and grit will be deposited on the louver plate 12 and subsequently roll down the inclined faces of said plates and outwardly through the grid.

Secured to the inner wall frame 8 as at 16 is a substantially U shape sliding damper guide 17, this guide being formed with a pair of spaced U shaped plates or strips, as more clearly shown in Figures 3 and 4. Adapted for free vertical sliding movement within the frame 17 is a damper plate 18, to the lower opposite ends of which are connected chains or other flexible members 19. The upper ends of these chains are secured to a chain section 20, this last mentioned

chain section adapted for cooperation with a T shaped opening 21 within a wall bracket 22 for maintaining the said damper plate in adjusted positions. It is of course understood that the bracket 22 is rigidly secured to the inner surface of the wall A and in a position above the said wall box.

In view of the above description, it is believed by me that the advantages and operation of a wall box constructed in conformity with my invention will be readily appreciated by those skilled in the art, and although I have herein shown and described the preferred embodiment of my invention, it is nevertheless to be understood that minor changes may be made therein, without departing from the spirit and scope of the invention as claimed.

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

1. In a wall box of the class described, a front and rear frame member, adjustable connections between said frame members, a louver frame removably positioned within said front frame and a grill plate removably

positioned upon the outer side of said front frame and adapted for maintaining said louver frame in position therein.

2. In a wall box of the class described, a front and rear frame member, adjustable connections between said frame members, a louver frame removably positioned within said front frame, a grill plate removably positioned upon the outer side of said front frame and adapted for maintaining said louver frame in position therein, and a sliding damper upon said inner frame.

3. In a wall box of the class described, a front and rear frame member, adjustable connections between said frame members, a louver frame removably positioned within said front frame, a grill plate removably positioned upon the outer side of said front frame and adapted for maintaining said louver frame in position therein, a sliding damper upon said inner frame, and means for maintaining said sliding damper in adjusted positions.

In testimony whereof I affix my signature.

LAWRENCE M. FREDERICK.