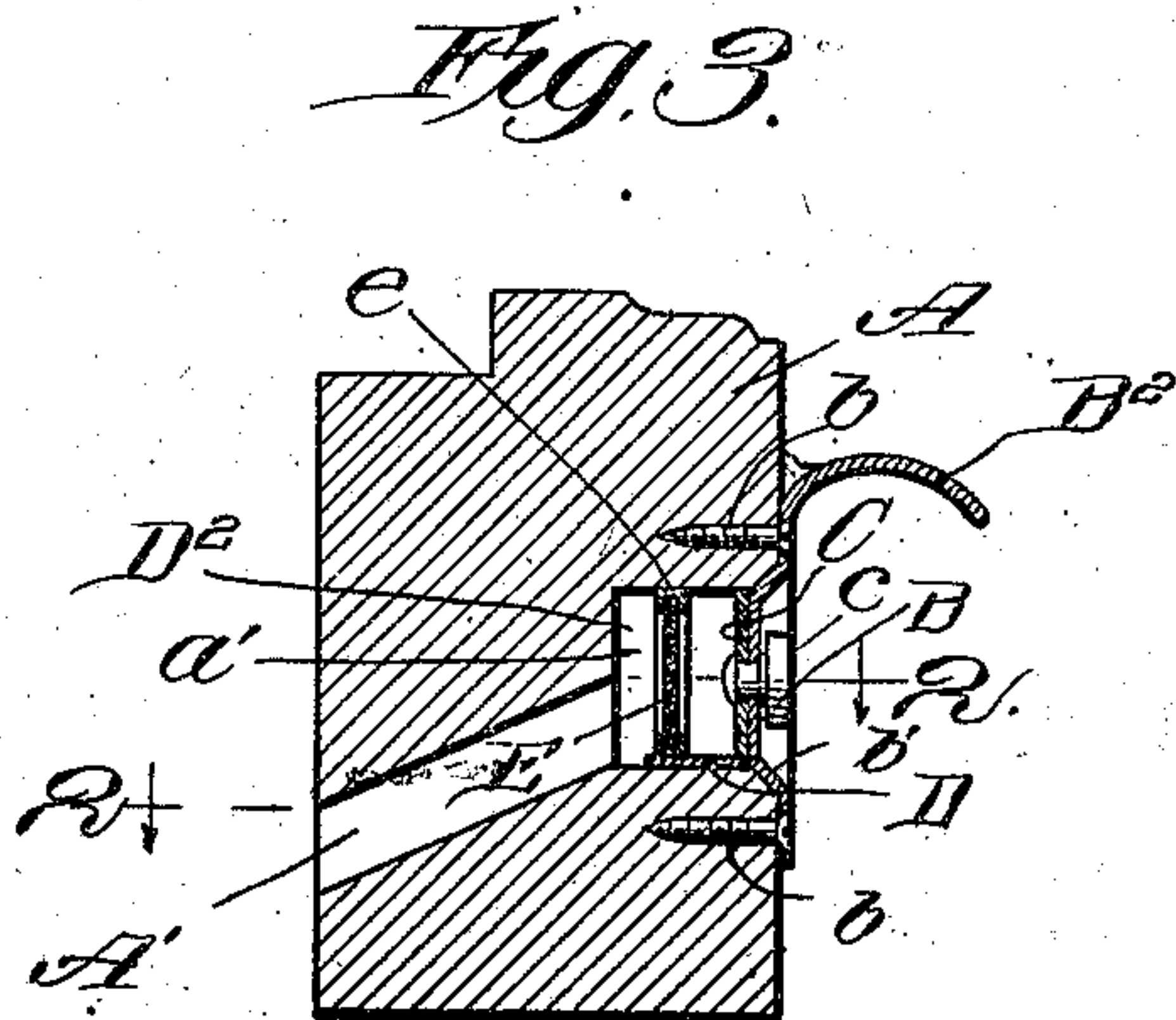
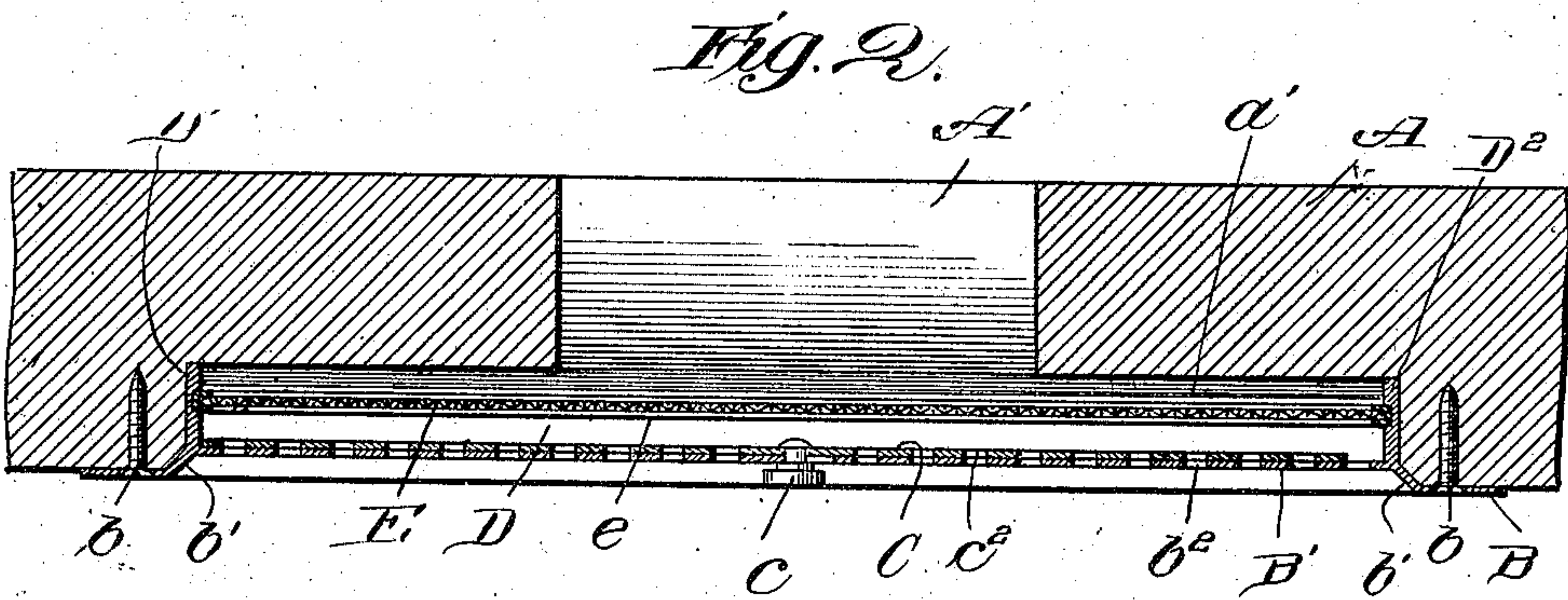
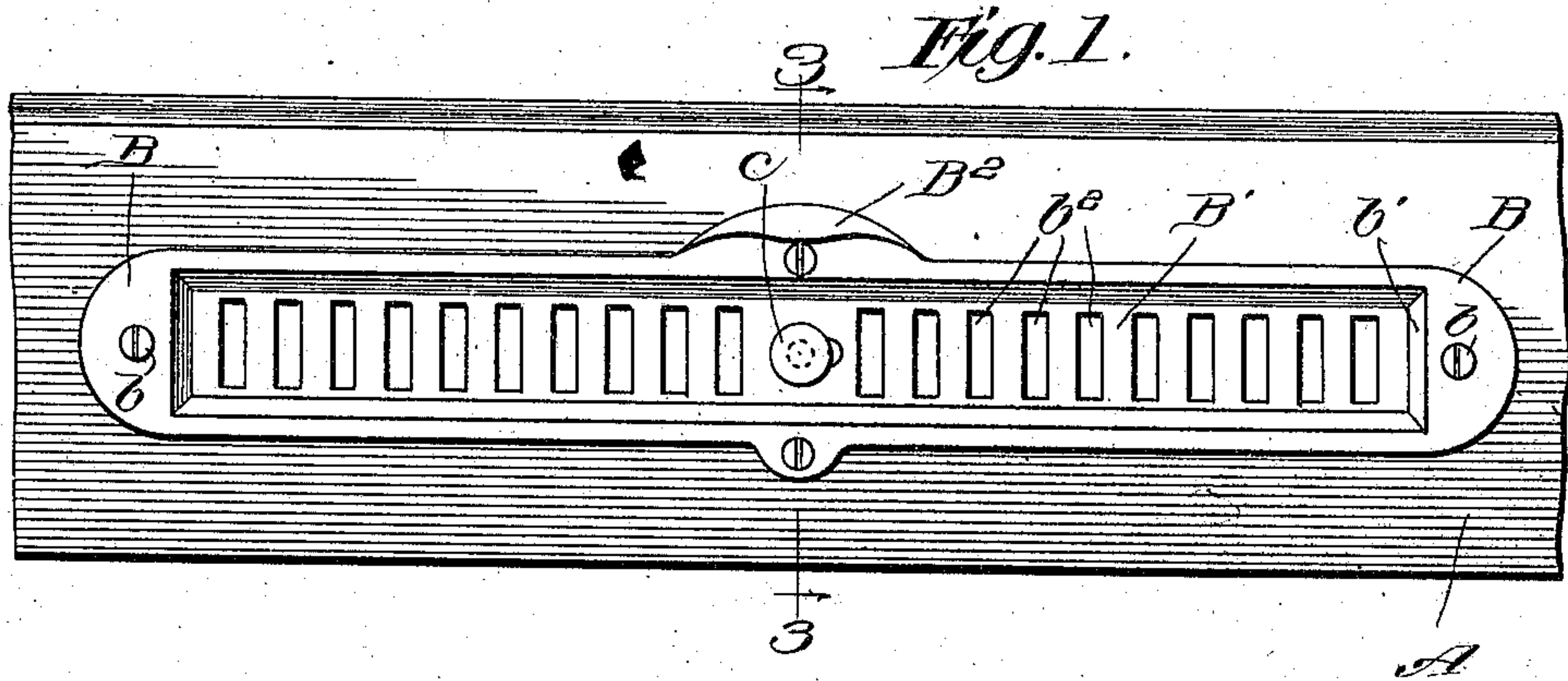


No. 847,929.

PATENTED MAR. 19, 1907.

E. R. FOERSTER.  
WINDOW VENTILATOR.  
APPLICATION FILED JAN. 22, 1906.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

EDWARD R. FOERSTER, OF CHICAGO, ILLINOIS.

## WINDOW-VENTILATOR.

No. 847,929.

Specification of Letters Patent.

Patented March 19, 1907.

Application filed January 22, 1906. Serial No. 297,090.

*To all whom it may concern:*

Be it known that I, EDWARD R. FOERSTER, a citizen of the United States, residing at Chicago, county of Cook, State of Illinois, have invented a certain new and useful Improvement in Window-Ventilators; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates in general to ventilators, and more particularly to ventilators adapted to be secured to the lower rail of a window-sash.

It is desirable that ventilators should be provided with screens to prevent the passage of dust therethrough and also that they should be capable of being readily attached over an opening through a window-sash without necessitating the sash being cut away to such an extent as to weaken the same.

The primary object of my invention is to provide a ventilator to control the supply of air through an opening in a window-sash and which will free the air supplied from dust and other foreign matter.

A further object of my invention is to provide a ventilator which will be simple in construction, comparatively inexpensive in manufacture, and efficient in use.

The embodiment of my invention herein disclosed may be generally described as comprising a face-plate having holes therethrough and adapted to be secured over an opening through a window-sash; a plate in sliding engagement with the face-plate, having holes adapted to register with those of the face-plate; flanges projecting rearwardly from the ends of the face-plate and having vertical grooves therein; a screen supported at its ends in said grooves; a bottom flange projecting from the face-plate, upon which the screen is supported, the end flanges being of such width as to form an air-chamber back of the screen, to which air passes from a restricted passage through the sash.

My invention will be more fully described hereinafter with reference to the accompanying drawing, in which the same is illustrated as embodied in a convenient and practical form, and in which—

Figure 1 is an elevational view; Fig. 2, a central horizontal sectional view on line 2 2.

Fig. 1; and Fig. 3, a vertical sectional view on line 3 3, Fig. 1.

The same reference characters are used to designate the same parts in the several figures of the drawing.

Reference character A indicates a portion of the lower rail of a window-sash or other frame through which air is to be supplied.

Reference character B indicates a face-plate adapted to be secured to the window-sash by any suitable means—as, for instance, by screws *b*, extending through holes in the face-plate. The central portion *B'* of the face-plate is provided with a series of holes, such as indicated at *b*<sup>2</sup>. The central portion *B'* of the plate is connected to the surrounding portion by a beveled flange *b'*, thereby forming a space within which lies a button *c*, connected to a sliding plate *C*, located at the rear of the face-plate. The plate *C* is provided with holes *c*<sup>2</sup>, which may be brought into register with the holes *b*<sup>2</sup> in the face-plate or may be moved out of register with such holes by reciprocating the plate *C* by means of the button *c*. The shank of the button *c* extends through a slot in the face-plate to permit a movement thereof to slide the plate *C* relatively to the face-plate.

The face-plate is provided with rearwardly-extending side wings or flanges *D'* and *D*<sup>2</sup>, which are provided with vertical grooves in their inner surfaces. A bottom flange *D* is also formed on the face-plate, as clearly shown in Fig. 3.

*E* indicates a screen the meshes of which permit the passage of air therethrough, but obstruct the passage of dust and other foreign matter. The screen may be conveniently provided with a surrounding frame *d*. The screen is adapted to slide within the grooves in the wings *D'* and *D*<sup>2</sup> and to rest at its lower edge on the flange *D*.

The side wings *D'* and *D*<sup>2</sup> project a slight distance to the rear of the screen, thereby forming an air-space at the rear of the screen, with which communicates a passage *A'*, extending through the sash.

The face-plate *B* may, if desired, be provided with a finger-lift *B*<sup>2</sup> to facilitate the raising and lowering of the window, thereby containing in one device a ventilator and a finger-lift.

In applying my invention to the window-sash the latter is cut out sufficiently to receive the end wings *D'* and *D*<sup>2</sup> of the frame.



and permit the surrounding portion of the face-plate to closely engage the outer surface of the sash. A passage, such as A', is cut entirely through the window-sash to supply air to the chamber formed in the sash at the rear of the screen. The passage A' may be of any desired size and may extend in any direction, preferably extending downwardly, as shown in Fig. 3, to prevent the rain from passing through the ventilator.

The operation of my invention will be readily understood from the foregoing description. The supply of air may be regulated by moving the plate C relatively to the face-plate B, thereby bringing the holes in such plates into register to any desired extent or entirely out of register.

By providing the air-space at the rear of the screen a restricted passage-way through the sash will only be necessary, thereby avoiding a passage-way through the sash of such a size as to weaken the same.

From the foregoing description it will be observed that I have invented an improved ventilator which may be readily secured in position over a passage-way in a window-sash or other frame and which will supply the air in any desired volume free from dust or other foreign matter. It will be also observed that the screen is readily removable from the wings of the ventilator which support it, thereby permitting the ventilator to be freed from accumulated dust from time to time by simply removing the screws which secure the ventilator to the window-sash and then detaching the ventilator. After the screen has been detached and the accumulated dust removed the screen may be again inserted in position and the ventilator again secured to the window-sash.

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

1. The combination with a window-sash having a chamber therein and an air-passage therethrough, of a ventilator removably secured in said chamber of the window-sash over said air-passage comprising a face-plate having holes therethrough, and a screen re-

movably supported upon said plate through which the air passes to said holes.

2. The combination with a window-sash having a chamber therein and an air-passage therethrough, of a ventilator removably secured in said chamber of the window-sash over said air passage comprising a face-plate having holes therethrough, a screen removably supported upon said plate through which the air passes to said holes, and means for opening and closing said holes.

3. The combination with a window-sash having an air-passage therethrough, of a ventilator secured to said sash over said passages and comprising a base-plate having holes therethrough, a screen supported by said plate through which the air passes to said holes, and means for opening and closing said holes, the sash being cut to form an air-chamber at the rear of said screen with which a passage through the sash communicates.

4. In a ventilator, the combination with a face-plate having holes therethrough, means for opening and closing said holes, wings projecting from said face-plate, and a screen supported by said wings at the rear of the openings through the face-plate.

5. In a ventilator, the combination with a face-plate having passages therethrough, means for opening and closing said passages, wings projecting from said plate, a screen supported by said wings, and a flange projecting from said plate upon which the screen rests.

6. In a combined ventilator and finger-lift for window-sash, the combination with a face-plate having holes therethrough, means for opening and closing said holes, wings projecting from said face-plate, a screen supported by said wings at the rear of the openings through the face-plate, and a finger-lift formed integrally with the face-plate.

In testimony whereof I sign this specification in the presence of two witnesses.

EDWARD R. FOERSTER.

Witnesses:

GEO. L. WILKINSON,  
C. A. MULLEN.