

No. 854,595.

PATENTED MAY 21, 1907.

A. H. NEWBY.
VENTILATOR.

APPLICATION FILED OCT. 30, 1905.

2 SHEETS—SHEET 1.

FIG. 1.

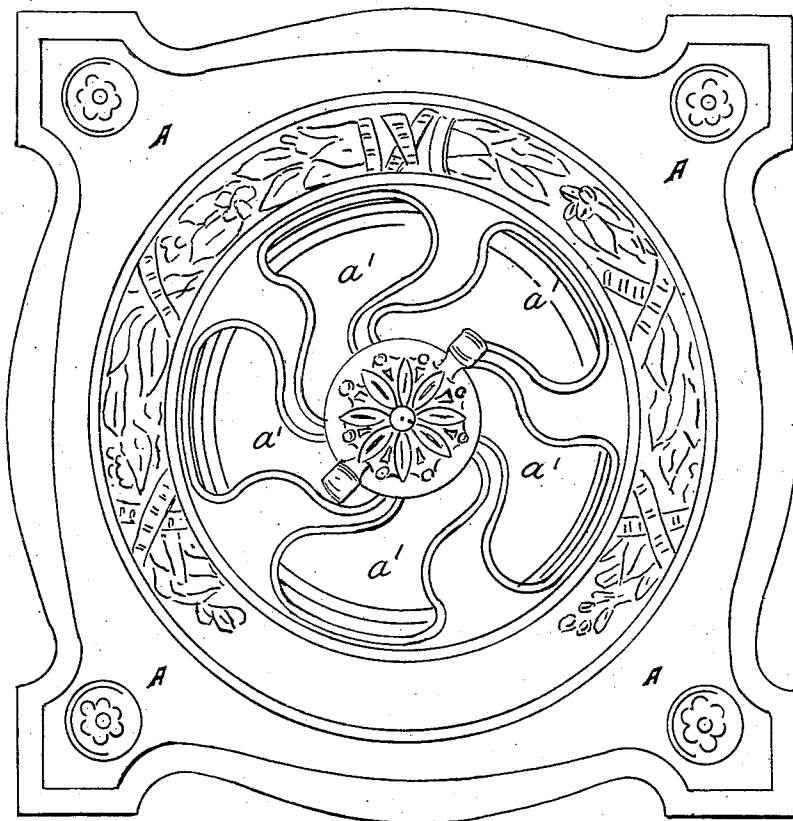
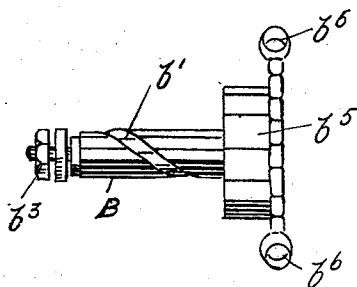


FIG. 6.



Witnesses.

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L. F. Brock

Inventor.

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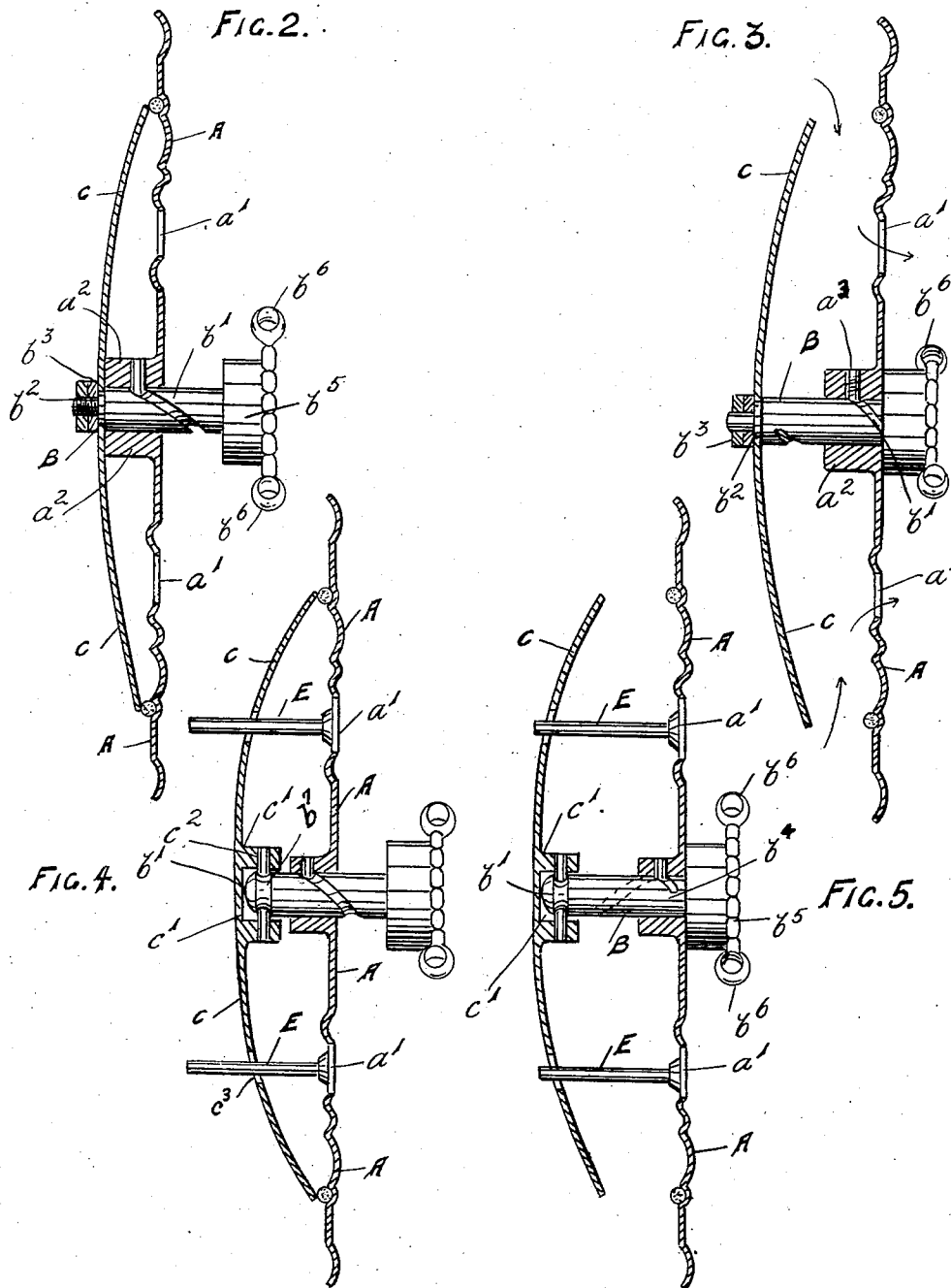
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2 SHEETS—SHEET 2.



Witnesses.

H. L. Trimble.
L. R. Brock.

Inventor.

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UNITED STATES PATENT OFFICE.

ALFRED HENRY NEWWEY, OF SUTTON COLDFIELD, ENGLAND, ASSIGNOR OF
ONE-HALF TO WILLIAM JOHN SEAL, OF BIRMINGHAM, ENGLAND.

VENTILATOR.

No. 854,595.

Specification of Letters Patent.

Patented May 21, 1907.

Application filed October 30, 1905. Serial No. 285,197.

To all whom it may concern:

Be it known that I, ALFRED HENRY NEWWEY, a subject of the King of Great Britain, residing at Sunnyside, Clifton Road, Sutton Coldfield, in the county of Warwick, England, metal-worker, have invented certain new and useful Improvements in Ventilators, (for which I have applied for a patent in Great Britain, Patent No. 6,526, dated 28th March, 1905,) of which the following is a specification.

This invention refers to improvements in ventilators and has for its object a ventilator which is cheap to manufacture, is easily opened or closed, while at the same time the ventilator can be readily fixed in position and the front ornamented to any desired extent.

In order that my invention may be clearly understood and more easily carried into practice, I have appended hereunto a sheet of drawings upon which I have illustrated the nature of my said improvements.

Figure 1 is a front view of the ventilator. Fig. 2 is a part vertical section through Fig. 1, showing the ventilator closed. Fig. 3 is a similar part section to Fig. 2 but showing the ventilator open. Fig. 4 is a similar view to Fig. 2 but showing a modification. Fig. 5 is a similar view to Fig. 2 but showing the ventilator open. Fig. 6 is an elevation of the screw plug.

In carrying this invention into effect the front or face plate A of the ventilator is formed to any desired shape and is provided with perforation a' . A screw plug B having grooves b' is arranged to work in a collar a^2 provided upon the back of the face plate A so that the stud or thread a^3 on the collar engages with the groove b' . The one end b^2 of the screw plug B is reduced in diameter, the concave or other shaped back plate C being secured to such end by means of the nuts b^3 which screw onto the end b^2 of the plug B. The other end b^4 of the screw plug B projects through to the face plate A to the outside where it is enlarged at b^5 and provided with the arms b^6 , to which cord or the like may be attached, so that when the arms are partly rotated the plug B rotates in the collar a^2 and causes the back plate to which it is firmly attached to rotate and recede from the face plate A and allow the air to pass between the

back and front plate and through the perforations as shown in Fig. 3.

When the arms are partly rotated in the opposite directions, the back plate C is caused to move up to the face plate A, while a rubber or other ring may be fixed to the back of the face plate A for the edges of the back plate C to butt against and prevent draft when the ventilator is closed.

In the modification shown by Figs. 4 and 5 where the back plate C is formed square or oblong in shape, it is necessary that the back plate should be prevented from rotating when moving toward or away from the face plate. To effect this, guide pins E working in holes c^3 in the back plate are fixed to the back of the face plate A, while the end b^2 of the screw plug B is arranged to rotate in the hollow projection which is formed on the back plate C, the end b^2 of the screw plug B being grooved at b^7 in which groove the pins c^3 in projection c^4 work. By this means the back plate can move toward or away from the front plate without rotating.

What I claim as new, and desire to secure by Letters Patent is:—

1. A ventilator comprising a face plate, a screw threaded collar on the inner surface thereof, a screw plug working through the screw threaded collar, a back plate, means for rotatably attaching the inner end of the screw plug to the back plate and causing it to recede from the face plate and perforations in the face plate through which the air can circulate when the back plate has receded therefrom.

2. A ventilator comprising a face plate, a screw threaded collar on the inner surface thereof, a screw plug working through the screw threaded collar, a back plate, means for rotatably attaching the inner end of the screw plug to the back plate and causing it to recede from the face plate, perforations in the face plate through which the air can circulate when the back plate has receded therefrom, and packing rings attached to the face plate against which the back plate abuts when in its closed position.

3. A ventilator comprising a face plate, a screw threaded collar on the inner surface thereof, a screw plug working through the screw threaded collar, a back plate, means for rotatably attaching the inner end of the

screw plug to the back plate and causing it to
recede from the face plate, perforations in
the face plate through which the air can cir-
culate when the back plate has receded
5 therefrom, guide pins attached to the face
plate and guide ways in the back plate for
the guide pins.

In witness whereof I have hereunto set
my hand in the presence of two witnesses.

ALFRED HENRY NEWHEY.

Witnesses:

WALKER H. E. BARTLAM,

JUSTUS JONES.