(No Model.)

A. D. GALLENTINE.

COMBINED REGISTER AND VENTILATOR.

No. 282,977. Patented Aug. 14, 1883.

Fig. 1.

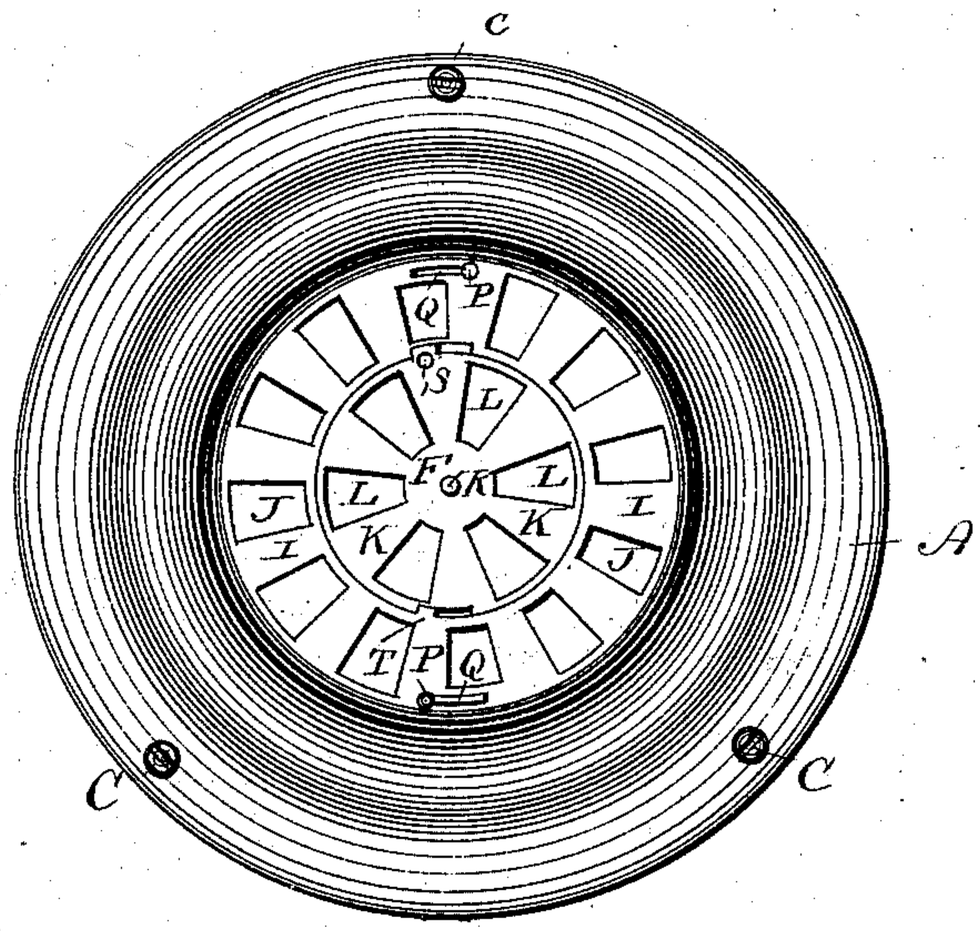
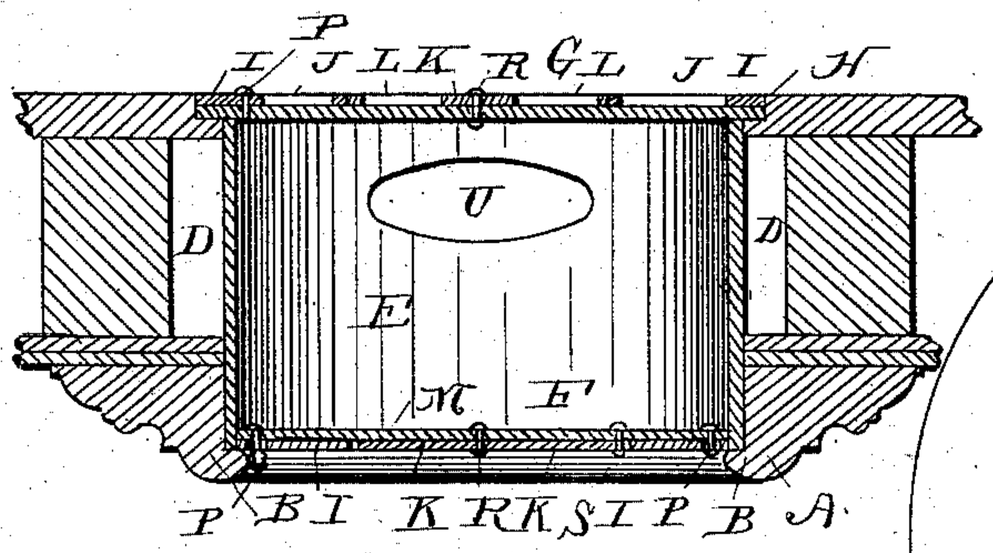
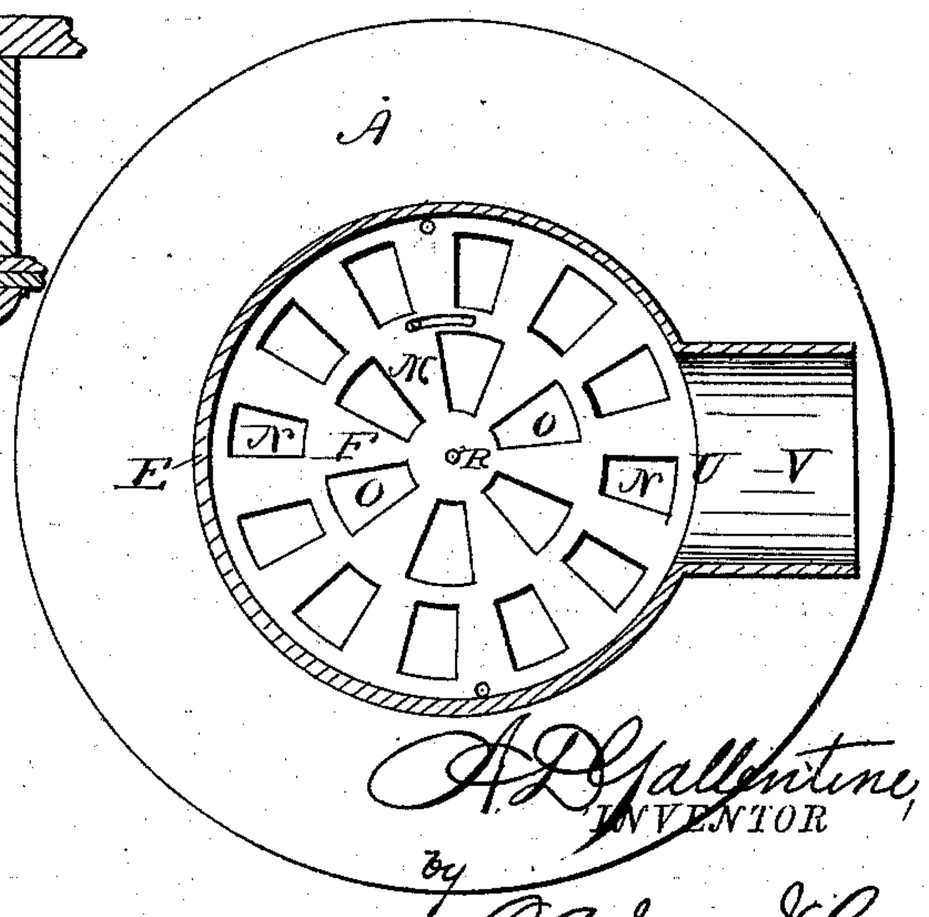


Fig. 2.

Fig. 3.





WITNESSES

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UNITED STATES PATENT OFFICE.

ABRAHAM D. GALLENTINE, OF MARION, INDIANA.

COMBINED REGISTER AND VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 282,977, dated August 14, 1883.

Application filed December 27, 1882. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM D. GALLENTINE, a citizen of the United States, residing at Marion, in the county of Grant and State of Indiana, have invented a new and useful Combined Register and Ventilator, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to combined registers and ventilators, and has for its object to provide a simple, ornamental, inexpensive, and efficient device that serves the combined purposes of a heating-register, a ventilator, and a conductor of light.

In the drawings, Figure 1 is a face view of my improved device. Fig. 2 is a transverse sectional view of the same in position. Fig. 3 is a horizontal sectional view taken above the lower register.

Referring to the drawings, A designates an annular molding, which is preferably formed from a solid block of wood or other material, so that there will be no joints to become separated and otherwise weaken the ring, having a circumferential shoulder or flange, B, around its inner edge. This annular molding is to be secured, preferably by screws C, around a circular opening, D, in the ceiling or wall of the room, and the edge of a cylindrical chamber, E, projects into the molding and rests against the shoulder B thereof. Inside this chamber E, at its front, is arranged a register, F, that also projects against the shoulder B, and at the rear end of the chamber is arranged another register, G, that is fitted in a groove or rabbet, H, in the floor above, or in the wall of the adjoining room. The registers comprise each an annular outer plate, I, formed with slots or openings J, and an independent central portion, K, adapted for rotary movement and having about half as many openings or slots L as the outside ring, I. This sectional construction of register imparts strength and durability, admits of independent adjustment of the sections, and the bars between the slots, being shorter, are not liable to become warped or broken. The interior rotary plate, M, of the register is formed in one piece, with an outer series of slots or openings, N, corresponding to the openings J in the outer ring, I, and with a central series of openings, O, corresponding to the openings L in the central plate or disk, K. The inner plate, M, is moved to close the openings J and L by means of pins or knobs P, that project through and work in segmental slots Q Q in the ring I. The central outer disk, K, is pivoted centrally to the plate M, and may be turned on its pivot R, when all the openings J and L are closed, to throw the latter open independent of the former, by means of an operating-knob, S, arranged on the periphery of the disk K, and is adapted to engage a projection, T, on the inner edge of the ring I, to limit movement of the said central plate.

When used as a ventilator, the chamber E is provided with an opening, U, in its side, which is connected by a pipe or tube, V, with the chimney or other flue, so that when one of the registers is closed and the other opened all the foul air, gases, vapors, &c., will pass through the open register into the chamber E and out through the pipe V.

By adjusting the registers one or both rooms can be heated when the hot-air chamber E is connected with a hot-air flue, and by opening both registers at night the light in one room will be reflected so as to light the other.

My improved combined register and ventilator is very simple in construction and will not easily get out of repair.

I claim as my invention—

As an improvement in registers and ventilators, the combination of the annular molding having a flange extending around its inner edge, the cylindrical chamber projecting against the said flange and having an opening in its side to be connected with a flue, a register at the front end of the chamber resting against the said flange, and a register arranged at the rear end of the chamber in an adjoining room, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ABRAHAM D. GALLENTINE.

Witnesses:

JOHN H. AMMONS,

WILLIAM E. NEAL.