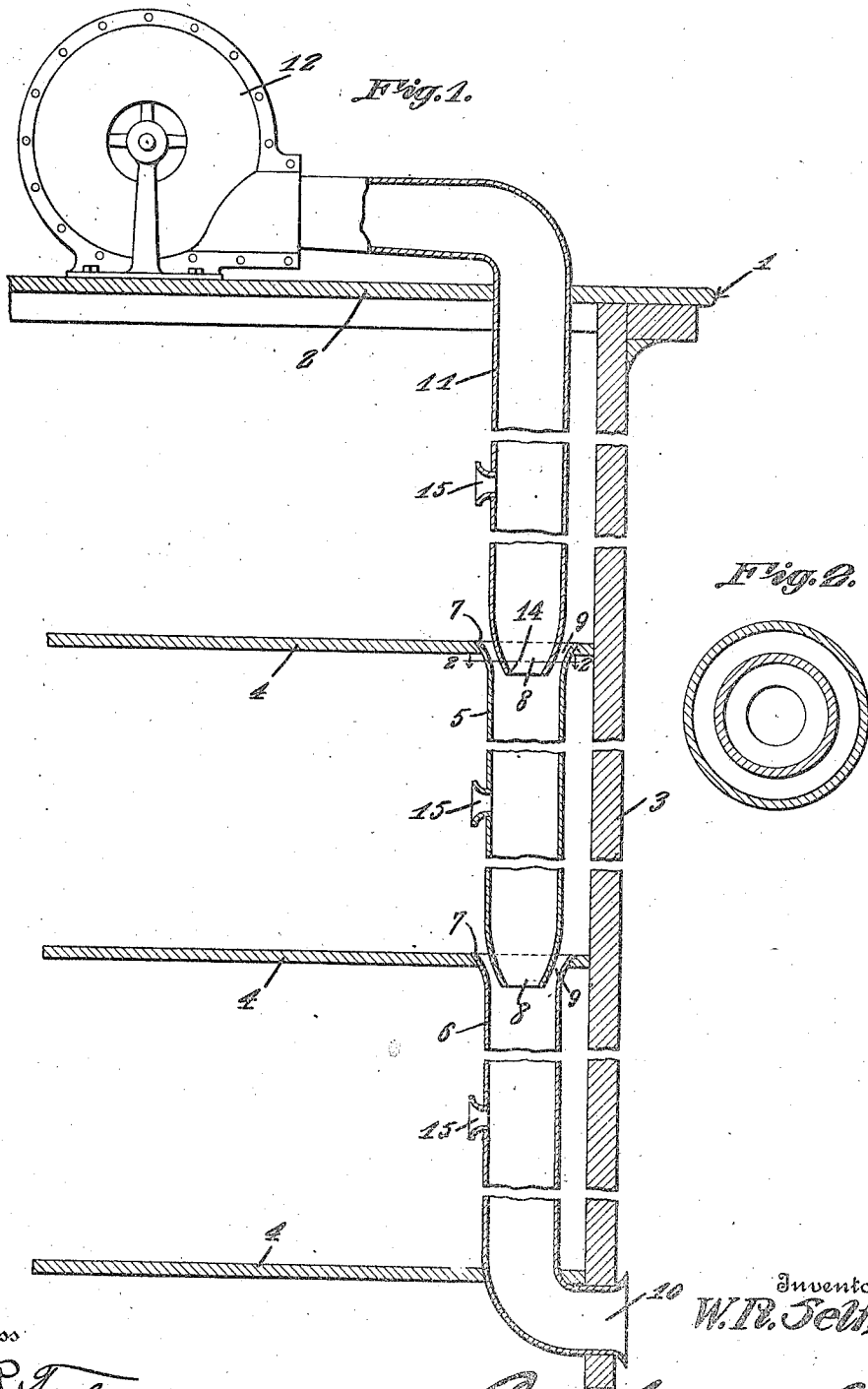


W. R. SELF.
 DEVICE FOR VENTILATING HOTELS AND OFFICE BUILDINGS.
 APPLICATION FILED MAR. 7, 1918.

1,267,808.

Patented May 28, 1918.



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UNITED STATES PATENT OFFICE.

WILLIAM R. SELF, OF NEWTON, NORTH CAROLINA.

DEVICE FOR VENTILATING HOTELS AND OFFICE-BUILDINGS.

1,267,808.

Specification of Letters Patent. Patented May 28, 1918.

Application filed March 7, 1918. Serial No. 221,009.

To all whom it may concern:

Be it known that I, WILLIAM R. SELF, a citizen of the United States, residing at Newton, in the county of Catawba and State of North Carolina, have invented a new and useful Device for Ventilating Hotels and Office-Buildings, of which the following is a specification.

The device forming the subject matter of this application is adapted to be employed for ventilating hotels, office buildings and other structures, and the invention aims to provide a simple but efficient means whereby proper ventilation may be secured in superposed rooms or compartments of a building.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the present invention appertains.

With the above and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 shows in vertical section, a portion of a building, wherein the device forming the subject matter of this application has been mounted, parts appearing in elevation; and

Fig. 2 is a cross section taken approximately on the line 2—2 of Fig. 1.

The numeral 1 marks a building including a roof 2, a side wall 3 and any desired number of floors 4. Axially alined vertical pipe sections 5 and 6 are provided, there being any desired number of the sections 5, depending upon the number of floors in the building. The pipe sections 5 and 6 have flared upper ends 7 mounted in the floors 4, each pipe section 5 having a reduced nozzle 8, spaced as shown at 9, peripherally, from the flared end 7 of the next lower section, the nozzles 8 extending downwardly into the flared ends 7. The lower pipe section 6 terminates in an outlet 10, which, if desired, may be carried through the side wall 3. At 11 there is shown a blast conduit which may be extended upwardly through the roof 2, the blast conduit communicating with a

blower 12 on the roof, and having a nozzle 14 entering the flared end 7 of the adjacent pipe section 5. The blast conduit 11 and the pipe sections 5 and 6 are provided with lateral outlets 15, spaced from the respective floors 4.

In practical operation, when the fan or blower 12 is in operation, a current of air will be forced downwardly through the blast conduit 11, pure air passing out through the outlet 15 of the blast conduit into the room above the uppermost floor. The air adjacent the uppermost floor will be drawn into the upper end 7 of the pipe section 5 by the draft produced when air enters the pipe section 5 through the nozzle 14. In a similar way, all of the rooms below the uppermost room will be ventilated, the air ultimately being discharged by way of the outlet 10.

It is to be noted that some of the air drawn out of the uppermost room may be discharged through the outlet 15 of the pipe section 5 into the next lower room, but this fact is of no great importance, since, when the structure is in operation, the air in all of the rooms will be kept so pure, compared with the air in the rooms under ordinary conditions, that no serious or annoying results will be produced.

Having thus described the invention, what is claimed is:—

In a ventilating system, a building comprising floors; a plurality of pipe sections each having its upper end mounted in one floor and having its lower end inserted into the upper end of an adjoining section and spaced peripherally therefrom to define an air inlet; a blast conduit having its lower end inserted into the upper end of the uppermost pipe section and spaced peripherally therefrom to define an air inlet; means assembled with the conduit for creating a blast through the conduit and through the pipe sections, the conduit and pipe sections having air outlets spaced above the respective floors.

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

WILLIAM R. X SELF.
his mark

Witnesses:

R. R. MOORE,
GEO. H. WEST.