

J. BRIGGS.

STOVE-PIPE VENTILATORS.

No. 184,828.

Patented Nov. 28, 1876.

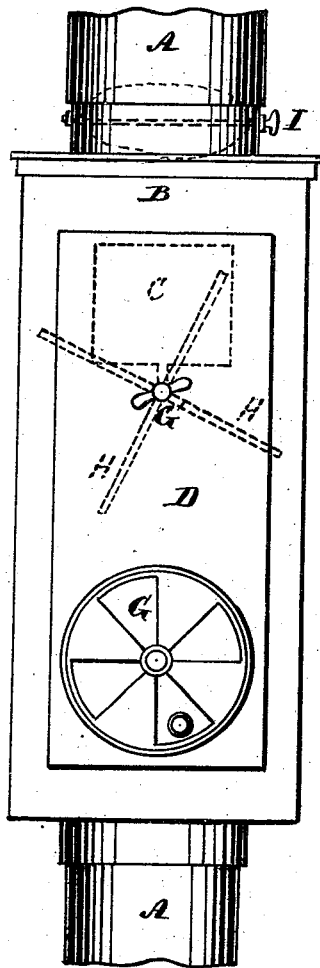


Fig. 1.

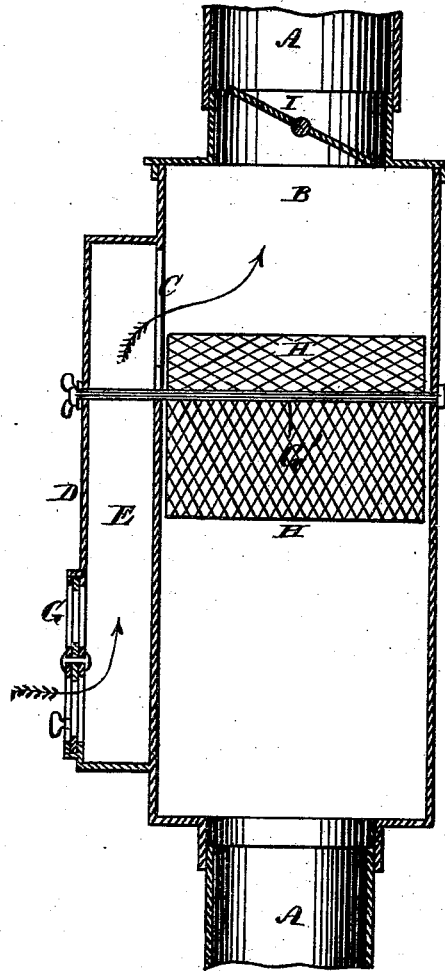


Fig. 2.

Witnesses
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UNITED STATES PATENT OFFICE.

JOHNSON BRIGGS, OF TORONTO, ONTARIO, CANADA.

IMPROVEMENT IN STOVE-PIPE VENTILATORS.

Specification forming part of Letters Patent No. **184,828**, dated November 28, 1876; application filed October 24, 1876.

To all whom it may concern:

Be it known that I, JOHNSON BRIGGS, of the city of Toronto, in the county of York, in the Province of Ontario, in the Dominion of Canada, have invented certain new and useful Improvements in Stove-Pipe Ventilators; and I do hereby declare that the following is a full, clear, and exact description of the same.

This invention has for its object to ventilate an apartment in which a stove is located, or through which a stove-pipe runs; and the nature of the invention relates to a means for inletting the foul air to the pipe-flue without the probability of the smoke escaping therefrom into the room by an adverse draft, or without stopping the draft in the smoke pipe; and it consists of a tubular connection inserted between the joints of a stove-pipe, having a foul-air inlet thereto, and an exterior covering, chamber, or passage, the lower end of which is furnished with a register, and which tubular connection or drum may have internally a perforated damper below the foul-air inlet, whereby the foul air entering the register has an upward passage in the exterior chamber before entering the smoke-flue.

Figure 1 is a front elevation, and Fig. 2 is a longitudinal section, of my improved ventilator.

A A represent the upper and lower joints of an ordinary stove-pipe, to which my device is intermediately attachable, and which device consists of a tubular connection, B, of round, square, or other form, and of any suitable di-

ameter, having an inlet foul-air aperture, C, which is covered by an exterior casing, D, forming a foul-air passage, E, which extends downward a suitable distance, in the lower end of which is placed any ordinary register, G, for regulating or stopping the inlet-current of foul air which passes from the apartment through the register, up the passage E, and thence into the flue through the opening C, as shown by the arrows. Below the opening C in the tube B is placed a damper, G', which preferably is constructed of an axial shaft, having three or four radial wings, H, of wire-cloth or perforated, to allow the products of combustion to pass, and which damper, by rapid turning, can be freed from accumulation of soot. I is a damper of ordinary construction, diametrically smaller than the flue, and located above the aperture C, so that when a fire is not used it may be closed and yet allow the foul air to pass.

I claim as my invention—

A ventilator connection for stove-pipes, constructed of the tubular continuation B, having an aperture, C, inclosed by a covering, D, forming a passage, E, furnished with a register, G, and with or without the damper H, whereby the foul air ascends in the passage E before entering the smoke-flue, as set forth.

JOHNSON BRIGGS.

Witnesses:

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