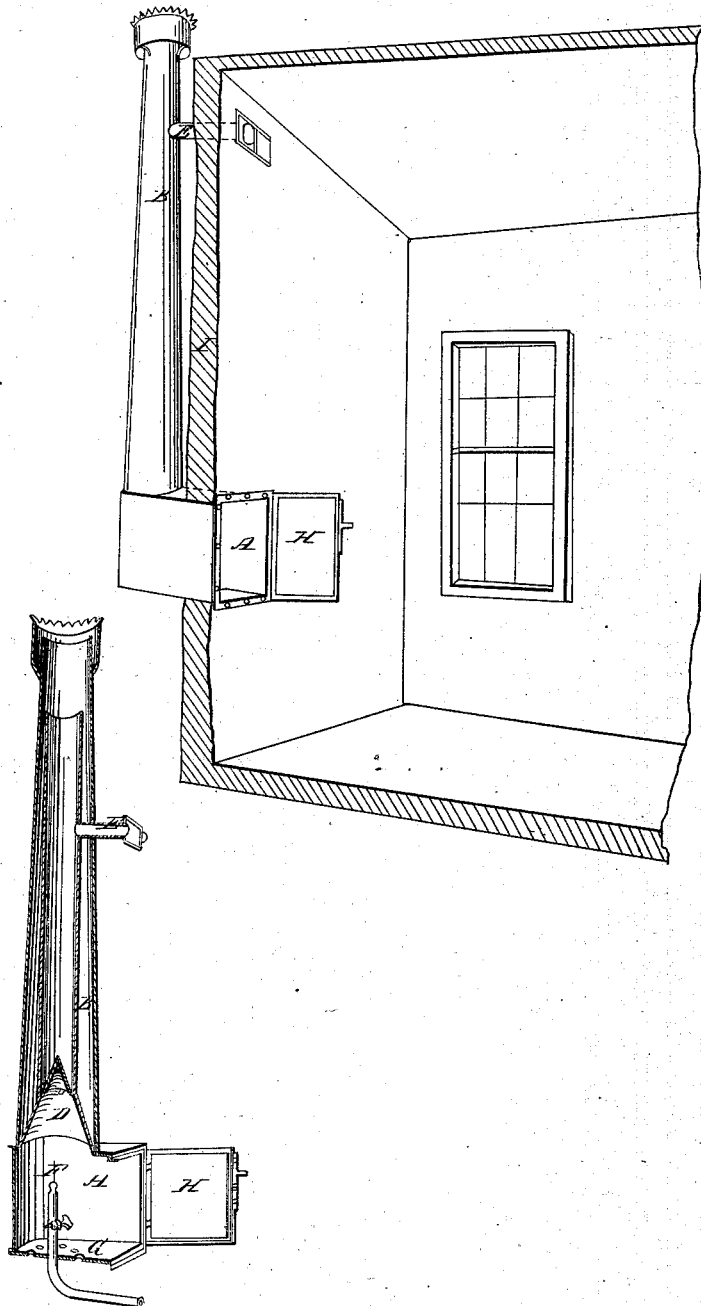


H. A. Gouge,
House Ventilator,

N^o 17,413.

Patented Apr. 25, 1865.



Witnesses:
J. J. Gordon
Geo. W. Collins

Inventor:
H. A. Gouge

UNITED STATES PATENT OFFICE.

HENRY A. GOUGE, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN VENTILATORS.

Specification forming part of Letters Patent No. 474,113, dated April 25, 1865.

To all whom it may concern:

Be it known that I, HENRY A. GOUGE, of Brooklyn, Kings county, and State of New York, have invented a new and Improved Ventilating-Light; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, and the letters of reference marked thereon, in which the same letter represents the same thing in each figure.

Figure 1 is a vertical cross section; Fig. 2, a representation of the mode of application to an apartment.

The object of my invention is to promote the ventilation of any apartment by creating a current outside of it, into which current the impure air of the apartment is fed and carried off by it, the same contrivance also lighting the apartment without heating it or risk of fire.

A represents a small chamber containing the light outside the apartment to be ventilated and lighted; B, the ventilating-flue; C, the metal radiating-flue from chamber A; D, the protecting-cap; E, the ventilator-escape; F, the light; G, the base of the lighted chamber perforated for the admission of air to promote combustion; H, the glass door of the chamber; I, the wall of the apartment to be ventilated and lighted.

The operation is as follows: Light F rarefies and heats the air in chamber A, which rises on the exterior of cone D, through radiating

metal flue C, thereby rarefying the air in ventilating-flue B, which rises and passes off. Ventilator F being open, the current of heated air in flue B sucks in its passage by it the foul and heated air of the apartment, which escapes by that communication.

Cone D divides the current of air and prevents the extinguishing of light F by the sudden closing of bank-vault or other tight-fitting doors, which would drive the air impetuously through ventilator F and down flue C into chamber A.

It will be obvious that this improvement may be applied in different ways to many useful and healthful ends; but it is especially applicable to ventilating and lighting refrigerators, bank-vaults, the state-rooms of passenger-vessels, and the saloons of railway-carriages, with perfect immunity against accident by fire.

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

1. The ventilating apparatus described, with the several parts arranged and acting together, substantially as set forth.

2. The combination of light F, flues B and C, and ventilator E, constructed and arranged substantially as and for the purposes described.

H. A. GOUGE.

Witnesses:

S. J. GORDON,
GEO. H. COLLINS.