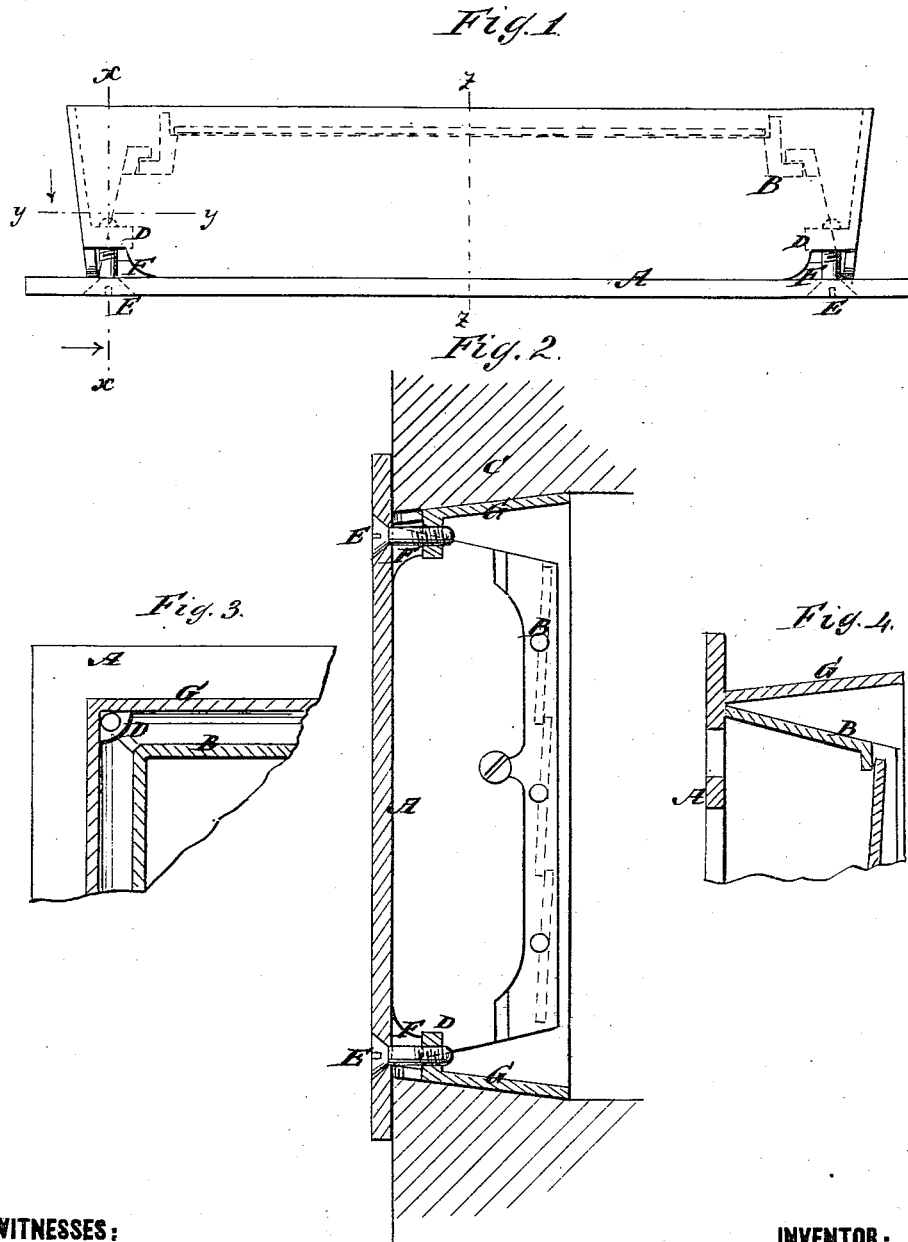


E. A. TUTTLE.
Hot-Air Register.

No. 167,480.

Patented Sept. 7, 1875.



WITNESSES:
E. Wolff
Alex. F. Roberts

INVENTOR:
E. A. Tuttle
BY *Wm. M. [Signature]*
ATTORNEYS.

UNITED STATES PATENT OFFICE

EDWARD A. TUTTLE, OF NEW YORK, N. Y.

IMPROVEMENT IN HOT-AIR REGISTERS.

Specification forming part of Letters Patent No. **167,480**, dated September 7, 1875; application filed June 26, 1875.

To all whom it may concern:

Be it known that I, EDWARD A. TUTTLE, of the city, county, and State of New York, have invented a new and Improved Hot-Air Register, of which the following is a specification:

The invention will first be fully described, and then pointed out in the claim.

Figure 1 is a side elevation of my improved register. Fig. 2 is a section on line *xx* of Fig. 1. Fig. 3 is a section on line *yy*, and Fig. 4 is a section on line *zz*.

Similar letters of reference indicate corresponding parts.

A is the front plate; B, the register; C, the wall; and G the independent wall-frame, which is permanently secured in the wall by its shape, and to which the register is attached by the lugs D and screws E, said lugs being located inside of the front edge of the frame, and said edge being notched, as repre-

sented at F, to obtain the requisite space for the nuts and screws in the angle between the wall-plate and register, while they come together at the front, so as to utilize all the space inside of the wall-frame for the register.

By locating the lugs for the screws within the wall-frame they are not obstructed by the plastering, and they do not injure it as they would if located on the outside.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of wall-frame and register-frame, fitting closely together in front, and having lugs for fastening-screws in a divergent angle between said frames, as and for the purpose specified.

EDWARD A. TUTTLE.

Witnesses:

T. B. MOSHER,
ALEX. F. ROBERTS,