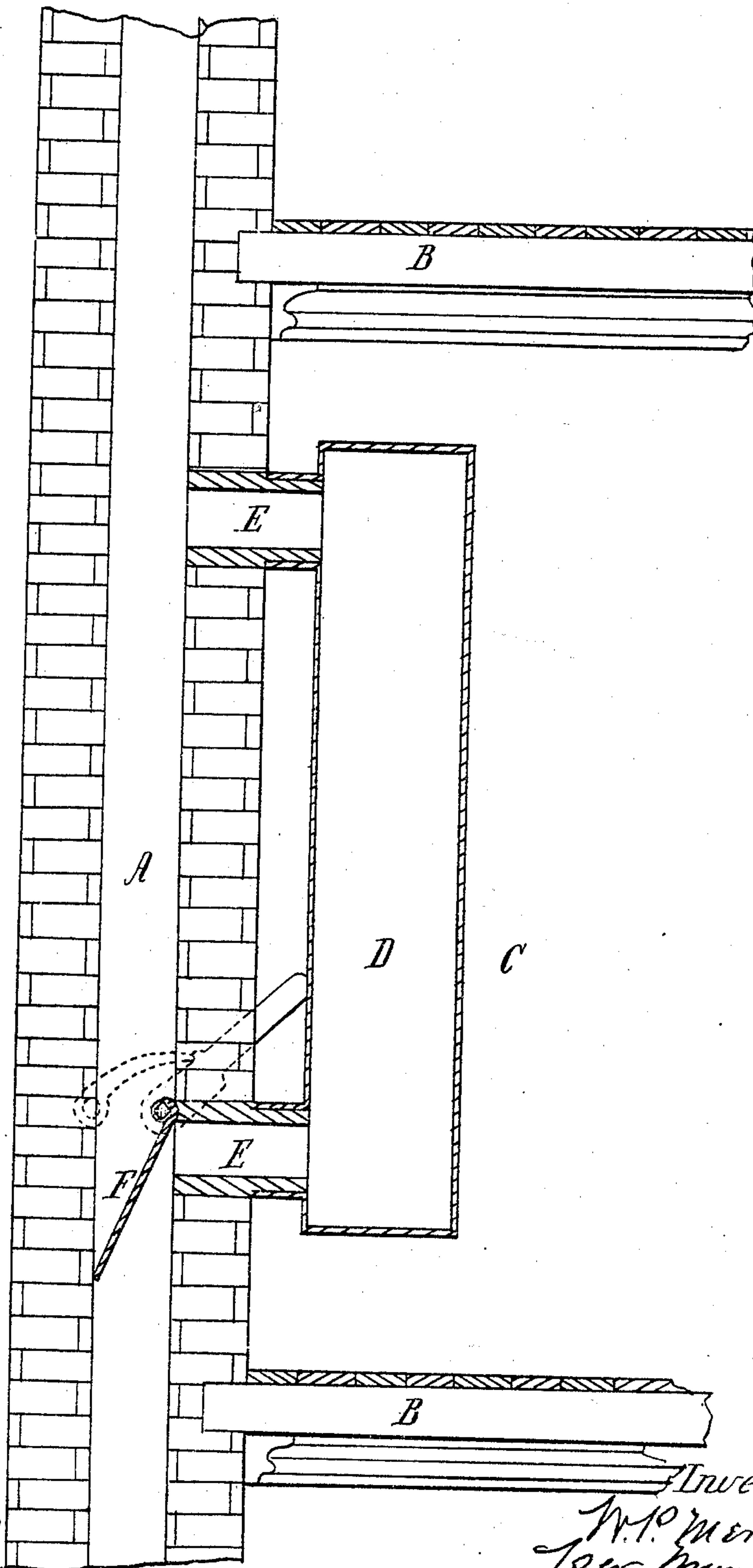


W. P. MERRILL.
HEAT RADIATING ATTACHMENT FOR FLUES.

No. 45,425.

Patented Dec. 13, 1864.



Witnesses;
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UNITED STATES PATENT OFFICE.

WILLIAM P. MERRILL, OF MILWAUKEE, WISCONSIN.

IMPROVEMENT IN HEAT-RADIATING ATTACHMENT FOR FLUES.

Specification forming part of Letters Patent No. 45,425, dated December 13, 1864.

To all whom it may concern:

Be it known that I, WILLIAM P. MERRILL, of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented a new and Improved Heat-Radiating Attachment for Flues; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, said drawing representing a vertical section of my invention applied to a flue or chimney.

This invention relates to a new and improved radiator applied to a flue or chimney provided with dampers and all arranged in such a manner that the waste heat which passes up the flue from a stove or fire may, when required, be made to pass through the radiator in an apartment above that containing the stove or fire, thereby economizing in fuel and avoiding the necessity of passing a stove-pipe through the floor, which has an unsightly appearance, and which is now done in order to obtain the same end.

A represents a flue or chimney, B B the flooring of a building, and C a room above that containing the stove or fire from which the waste heat passes up the flue.

D is a radiator, which may be of any suitable

form, and communicates with the flue A by means of two pipes, E E—one at its top and the other at its bottom—and F is a damper in the flue or chimney A, placed at the junction of the lower pipe, E, with the flue, and so arranged that when turned so as to extend across the flue the waste heat will pass into the lower pipe, E, through the radiator, and through the upper pipe, E', into the flue, thereby causing heat to be radiated into the room C. When it is not desired to have the heat radiated in said room C, the damper F is turned so as to close the lower pipe, E, of the radiator, and the waste heat is allowed to pass directly up the flue or chimney. Thus, by this simple means, I obtain the benefit of the radiator in a room above that containing a stove or fire, and avoid the use of a stove pipe, hitherto employed for that purpose.

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

The attachment of a radiator to a chimney-flue combined with a damper for the purpose of directing the waste heat through the radiator or allowing it to pass directly up the chimney, substantially as described and represented.

WILLIAM P. MERRILL.

Witnesses:

ENOCH CHASE,
GUSTAV REAP.