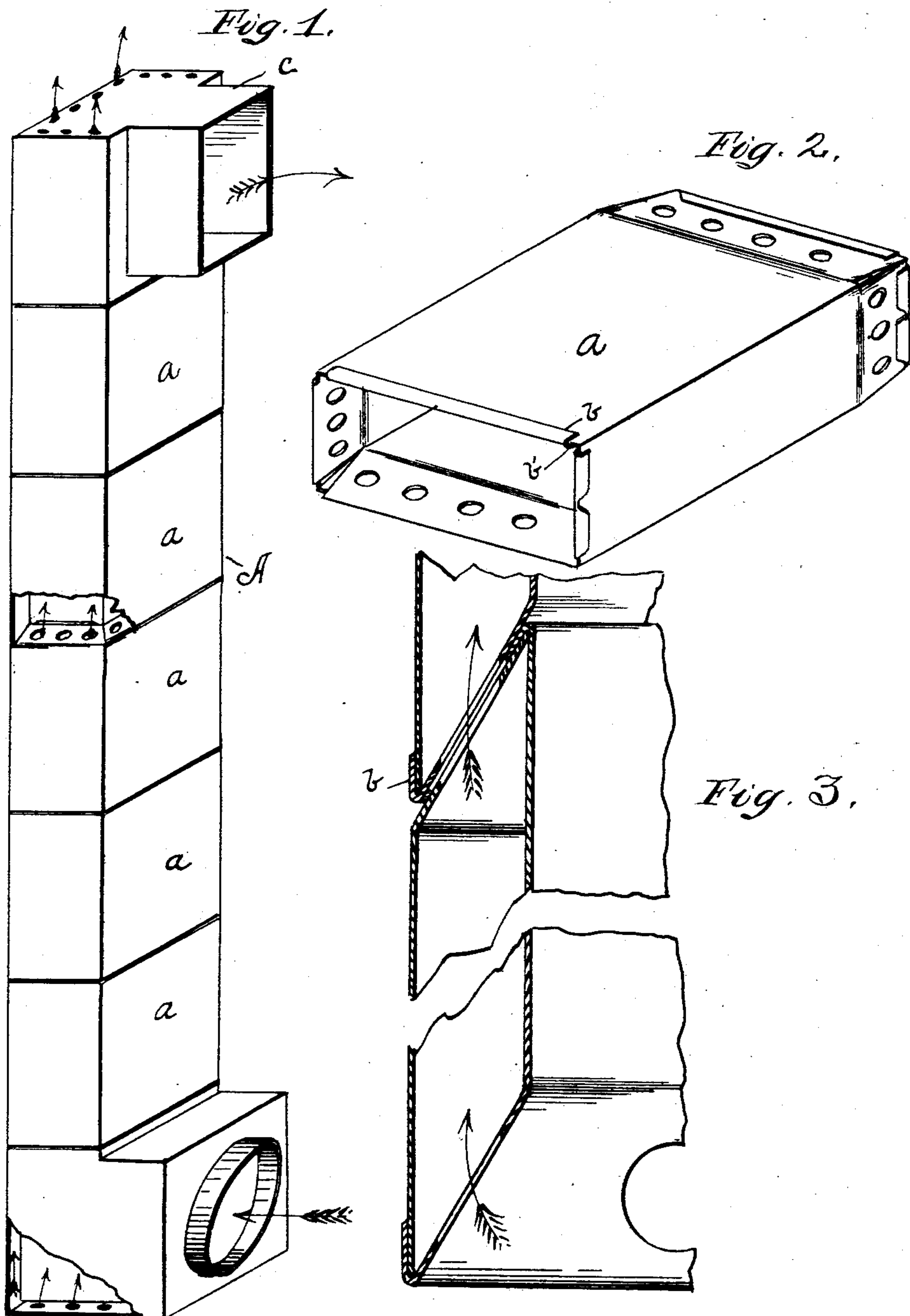


(No Model.)

H. McMILLIN.  
FURNACE PIPE.

No. 525,467.

Patented Sept. 4, 1894.



Witness:  
H. E. Harrison,  
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Inventor,  
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By  
John H. Roney  
att'y

# UNITED STATES PATENT OFFICE.

HARRY McMILLIN, OF ALLEGHENY, PENNSYLVANIA.

## FURNACE-PIPE.

SPECIFICATION forming part of Letters Patent No. 525,467, dated September 4, 1894.

Application filed December 15, 1893. Serial No. 493,784. (No model.)

*To all whom it may concern:*

Be it known that I, HARRY McMILLIN, a citizen of the United States, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Furnace-Pipes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, in which—

Figure 1 indicates a perspective of my improved hot air flue, broken away at one of the joints and bottom, to show manner of connecting sections, and the cold air space between the walls. Fig. 2 is an enlarged perspective of one of the sections. Fig. 3 is an enlarged vertical section of portion of two sections, showing joint between same.

My invention relates to flues located in the walls of buildings to convey hot air from a furnace, to the various rooms of the same, and consists of the novel construction and arrangement of parts hereinafter specifically described, reference being had to the accompanying drawings, forming part hereof, in which like letters indicate like parts wherever they occur.

Referring to said drawings A is an hot air flue adapted to be located in the walls of a building for the purpose of conveying hot air from a furnace, to the various rooms in the same. Said flue is formed of a series of sections *a—a* preferably of tin, the lower end of the inner wall *b* being beveled outwardly and overlapped upon the lower edge of the outer wall *b''* the upper end of which is inclined inwardly, the upper end of the inner wall being overlapped upon the same as shown in

Figs. 2 and 3, the beveled surfaces being provided with perforations, whereby a continuous cold air space is formed between the walls of said flue, as shown in Fig. 1. Said flue is provided with a perforated cover *c* to enable the air (usually taken from the cellar, and consequently is more or less impure) circulating between the walls of said flue, to prevent the same entering the room through the register, and is enabled to escape through the walls of the building.

One of the many advantages of my improvement; is the simplicity of its construction, dispensing with the use of machinery, and consequently reduction in cost of the same.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

A hot air pipe for furnaces consisting of a number of sections, the lower end of the inner wall of each of said sections being turned outwardly at an angle of forty-five degrees to the lower edge of the outer wall and overlapped on said outer wall and provided with perforations, the upper end of the outer wall being turned inwardly on an angle corresponding with that of the lower end of the inner wall, and provided with corresponding perforations, the inwardly inclined top of one section being adapted to fit into the outwardly inclined bottom of the next succeeding section, and to be soldered thereon, and a continuous cold air space formed between the walls of said pipe substantially as described.

In testimony that I claim the foregoing I hereunto affix my signature this 13th day of December, A. D. 1893.

HARRY McMILLIN. [L. S.]

In presence of—

JAS. J. MCAFEE,  
C. A. WILLIAMS.