

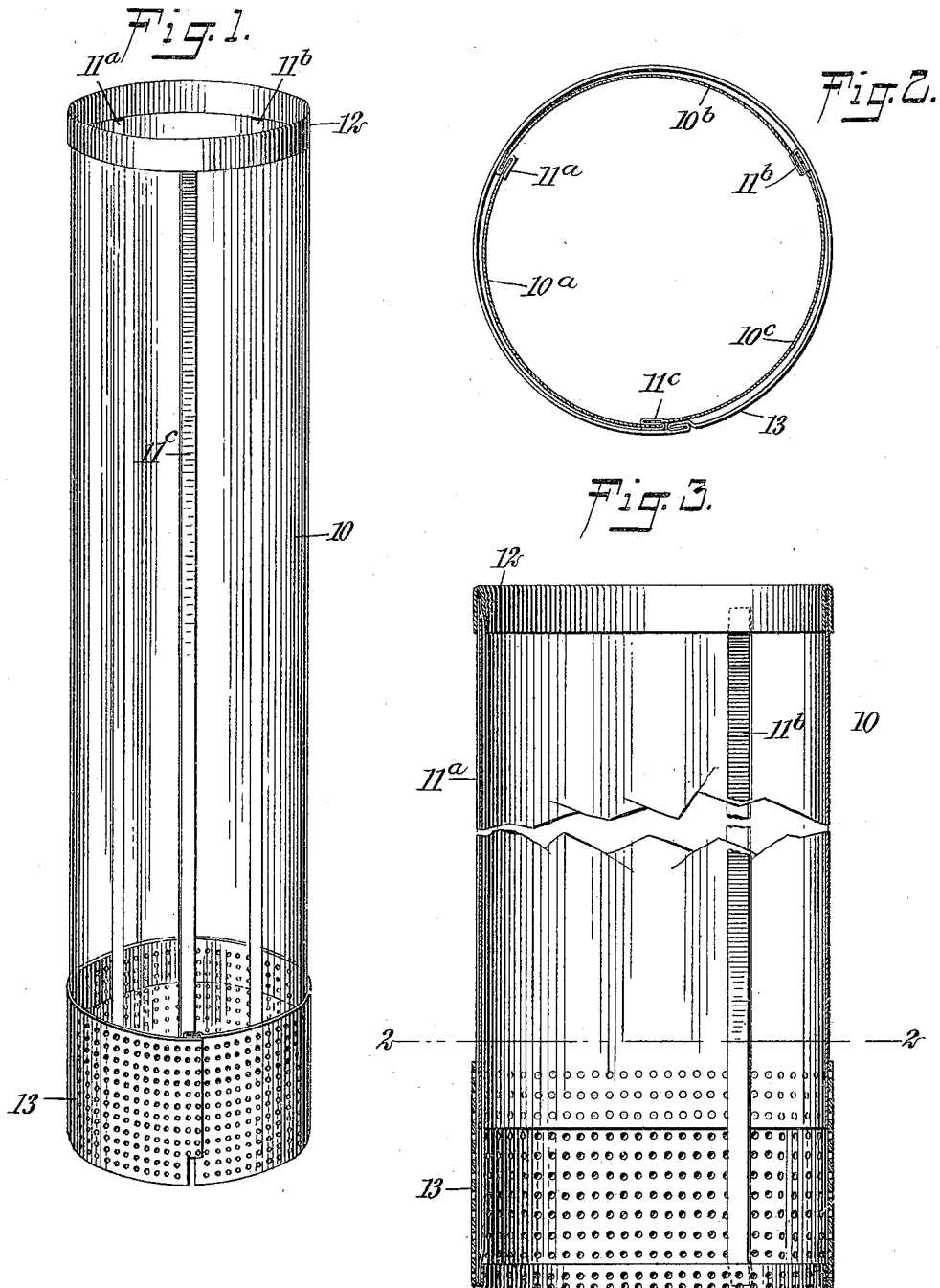
J. D. WARREN.

CHIMNEY.

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953,499.

Patented Mar. 29, 1910.



WITNESSES

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JOHN D. WARREN, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO EUGENE MUNSELL
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CHIMNEY.

953,499.

Specification of Letters Patent.

Patented Mar. 29, 1910.

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To all whom it may concern:

Be it known that I, JOHN D. WARREN, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Chimney, of which the following is a full, clear, and exact description.

This invention relates to certain improvements in chimneys adapted for use with liquid or gaseous fuel burners, and more particularly to chimneys for gas burners with which incandescent mantles are employed.

The object of the invention is to reinforce and strengthen the base portion of the chimney and provide means whereby air may gain access to the interior thereof to support combustion.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures, and in which—

Figure 1 is a perspective view of a chimney constructed in accordance with my invention; Fig. 2 is a transverse section through the chimney, said section being taken on the line 2—2 of Fig. 3; and Fig. 3 is a longitudinal section through the chimney shown in Figs. 1 and 2.

My improved chimney includes a transparent body portion 10, preferably formed of mica, and in the specific construction illustrated in the drawings, it is formed of three separate sections 10^a, 10^b and 10^c. Each section is connected to the other two sections by longitudinally-disposed sheet metal strips 11^a, 11^b and 11^c. Each strip is preferably bent to substantially Z-shape in cross section, and firmly engages with the contiguous edges of the mica sections to hold them together. At the upper end of the chimney there is provided a sheet metal collar 12, preferably bent to inclose the upper edge of the mica to reinforce and strengthen the same, and, at the same time, to inclose the upper ends of the longitudinal stays to add rigidity to the structure.

At the lower end of the chimney, I provide a reticulated metallic base portion 13, preferably formed of sheet metal and having a large number of very small apertures or perforations therein. This sheet metal base portion is of substantially the same diameter as the transparent body portion, and

preferably incloses the lower end of said body portion. The two overlap only a very short portion of their length, whereby air may freely gain access to the apertures in the major portion of the base, while the upper portion of the base tends to protect the lower free edge of the mica. The lower edge of the base is preferably folded back upon itself to form a reinforcement, and the flange formed serves to bind the lower ends of the several stays to the base portion and unite the body and the base in one structure.

I am aware that mica chimneys have been devised, in which the lower portion of the mica itself has been perforated to permit the admission of air, and I am also aware that mica chimneys have been provided with separate smaller collars spaced from the lower end by braces to leave an annular entrance opening for air, but in neither of these constructions is there provided a perforated sheet metal base, serving to reinforce and protect the lower free edge of the mica, to prevent the admission of insects or other foreign bodies, and to hold the edge of the mica above the point of support.

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

A chimney, comprising a hollow, open-ended body portion formed of transparent sheets of mica and a plurality of metallic stays connecting said sheets and extending longitudinally of said body, the upper end of each of said stays terminating adjacent the upper edge of the mica sheets, and the lower end of each stay extending below the lower edge of the mica sheets and constituting a leg or extension, a collar connected to the first-mentioned ends of said stays and the upper edges of said mica sheets, and a perforated cylindrical sheet metal base portion encircling the extensions of said stays at the lower end of said body portion and exteriorly overlapping a portion of said mica sheets, and having an upwardly and inwardly-directed flange at its lower edge receiving the ends of said stays.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN D. WARREN.

Witnesses:

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