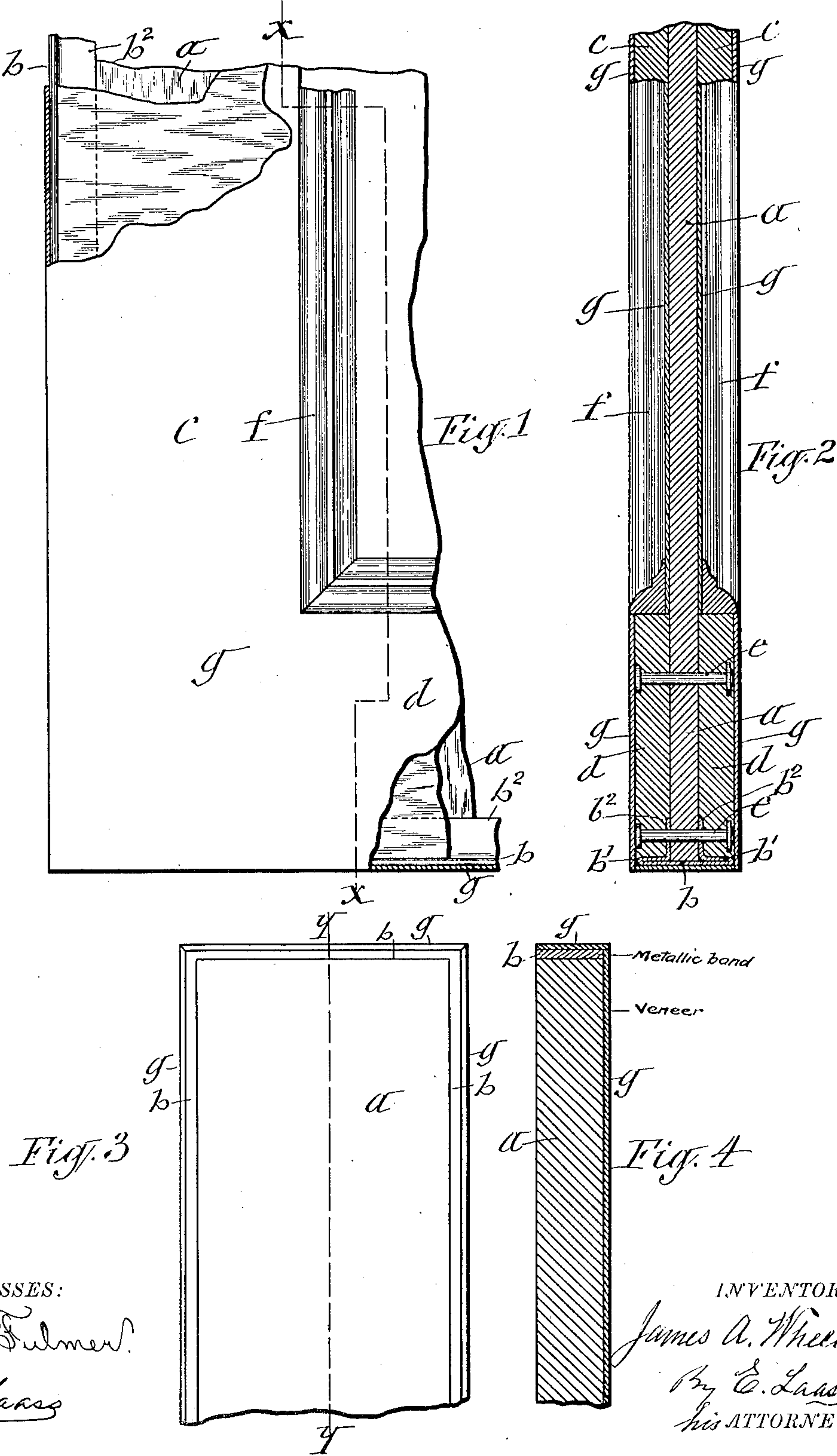


J. A. WHEELER.  
FIREPROOF DOOR.

APPLICATION FILED DEC. 11, 1905. RENEWED NOV. 15, 1907.



WITNESSES:  
S. H. Fulmer.  
J. J. Laas

INVENTOR  
James A. Wheeler  
By E. Laas  
his ATTORNEY.



# UNITED STATES PATENT OFFICE.

JAMES A. WHEELER, OF NEW YORK, N. Y.

## FIREPROOF DOOR.

No. 876,121.

Specification of Letters Patent.

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*To all whom it may concern:*

Be it known that I, JAMES A. WHEELER, a citizen of the United States, and resident of New York, in the county of New York, in the State of New York, have invented new and useful Improvements in Fireproof Doors, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

10 This invention relates to the class of fireproof doors and shutters which are composed of asbestos treated with chemicals which solidify and harden the asbestos.

The object of this invention is to produce a fire-proof door which shall be simple and inexpensive in construction, and thoroughly braced to render it strong and durable. And to that end the invention consists in the novel construction and combination of the component parts of the fire-proof door hereinafter described. In the accompanying drawings, Figure 1 is a fragmentary front view of a fire-proof door embodying my invention; Fig. 2 is a vertical transverse section on the line  $x-x$  in Fig. 1; Fig. 3 is a fragmentary side view of a plain faced shutter embodying my invention; And Fig. 4 is a vertical transverse section on the line  $y-y$  in Fig. 3.

30  $a$  designates the body of the door or shutter, which body consists of a solidified board molded from asbestos treated in a plastic condition with suitable chemicals, such as silicate of soda, calcined magnesite and suitable chlorids which serve to solidify and harden the molded fiber. To the edges of the said body I apply a metallic band  $b$  which is of a width to have its edges flush with the faces of the door. Said band is permanently attached to strengthen and protect the corners of the edges of the door.

In constructing a paneled door as shown in Figs. 1 and 2 of the drawings, I form the stiles  $c$  and rails  $d$  separate from the body, and preferably of wood and fasten them to the body  $a$  by means of bolts  $e$  passing transversely through said parts and countersunk at their ends as shown in Fig. 2 or by other suitable means.

50 In either case the asbestos body  $a$  is stiffened by the said stiles and rails. The molding  $f$  may be formed from any suitable material. On the said paneled door I

employ a metallic band  $b$  the central portion of which is of a width to extend across the edges of the body  $a$  stiles  $c$  and rails  $d$ . The marginal portions of said band are folded inwardly upon the central portion of the band as shown at  $b^1$  and terminate in right angled flanges  $b^2$  which embrace the margin of the body  $a$  as illustrated in Fig. 2 of the drawings.

$g$  represents veneer of wood applied to the panel  $a$  and to the stiles  $c$  and rails  $d$  to improve the appearance of the door. A band of veneer  $g$  is also applied to the metallic band  $b$  to protect it from rust.

What I claim as my invention is:—

1. A fire-proof door composed of a board of solidified asbestos constituting the body of the door, a metal band applied to the edges of said door and having its edges flush with the faces of the door, and a non-metallic band covering the metal band to protect it from rust as set forth.

2. The combination with a door-body and separately formed stiles and rails attached to said body, of a metallic band covering the edges of the door and formed with flanges inserted between the door-body and stiles and rails and fastened thereto.

3. The combination with a door-body, and separately formed stiles and rails attached to said body, of a metallic band covering the edges of the door and formed with flanges inserted between the door-body and stiles and rails, and bolts passing transversely through said parts and flanges of the metallic band as set forth and shown.

4. The combination with the door-body consisting of a board of solidified asbestos, and stiles and rails composed of wood and fastened to said body, of a metallic band formed with a central portion extending across the edges of said door and having its marginal portions folded inwardly upon the central portion and terminated in right angled flanges embracing the margin of the door-body as set forth and shown.

JAMES A. WHEELER.

Witnesses:

HERBERT J. LYALL,  
EMMA A. MAASS.